



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Cell and molecular biology			
2.2 Course coordinator: Șef I dr Zazgyva Ancuța-Marilena			
2.3 Practical activities coordinator(s): Șef I dr Zazgyva Ancuța-Marilena			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 15		
- supplemental documentation at the library, from specialized information portals and in the field: 14		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular: None
4.2 competency: None

5. Conditions

5.1 for lectures: None
5.2 for practical activities: None

6. Specific competencies acquired

6.1 professional competencies: - Initiation into microscopic study: optical and electronic microscopes - Acquiring practical skills for handling microscopes and laboratory equipment - Deepening theoretical and practical notions regarding the structure and ultrastructure of the cell and the molecular mechanisms underlying life - Demonstrating the practical importance of cellular and molecular pathology for the understanding of all medical disciplines - Using the learned concepts in scientific research

6.2 transversal competencies:
- Introduction to the study of morphological sciences
- Appropriation of theoretical and practical notions regarding the microcosmos of the living world
- Development of medical thinking and use of scientific information in order to understand the physiological and pathological processes seen in various diseases
- Creating a paper/report, by identifying the objectives to be achieved, available resources, conditions and stage of work, as well as timing and terms of achievement
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The Department of Cell and Molecular Biology aims to study and understand the structure and ultrastructure of the cell and the molecular mechanisms underlying life, using optical microscopy, in common staining (HE), special staining and electron microscopy
7.2 Specific objectives: - Learning the basics of cell and molecular biology, with subsequent applications in the study of other morphological sciences - Understanding mechanisms of action at the cellular and molecular level with applications in medical practice - Comprehensive and basic techniques in preparation of microscopic specimens - Microscopic study and recognition of different types of cells and tissues, positive and differential diagnosis of normal cellular structure and its implications in medicine

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to Cell Biology	Oral, multimedia presentation	Introductory course, with notions of history	Acid based disturbance. HIV. Immunodeficiency. Chromosomal disorders	2
2	The cell. Prokaryotes. Eukaryotes. Molecular forms of life. Cellularity of dental and periodontal structures. Dental and periodontal structure and ultrastructure	Oral, multimedia presentation	-	HIV. Encephalopathy. Oral disorders (incl. caries)	2
3	Chemical composition of the living cell. Biochemistry of dental and periodontal structures	Oral, multimedia presentation	-	Inborn errors of metabolism. Disorders of calcium and vitamin D metabolism	2
4	The glycocalyx. The cell membrane. The cytoskeleton. Intercellular connections. The cytoplasmic matrix	Oral, multimedia presentation	-	Rhesus haemolytic disease	2
5	Extracellular matrix. The basement membrane. Implants	Oral, multimedia presentation	-	Immunization. Malabsorption. Cranial nerve disorders	2
6	Transmembrane transport. Transport through membranes. Vesicular transport	Oral, multimedia presentation	-	Inborn errors of metabolism	2
7	TBL The nucleus. Nuclear chromatin. The nucleolus. Characteristics of the DNA molecule. The chromosomes of eukaryotic Cells	Oral, multimedia presentation	-	Disorders of muscle. Oral disorders (incl. Caries)	2
8	Cell cycle. Cell division	Oral, multimedia presentation	-	Chromosomal disorders. Malformations of lip/palate	2
9	Endoplasmic reticulum. Ribosomes	Oral, multimedia presentation	-	Chromosomal disorders. Malformations of lip/palate	2
10	Cell secretion. Golgi apparatus	Oral, multimedia presentation	-	Chromosomal disorders. Malformations of lip/palate	2

11	Cell digestion. Lysosomes. Peroxisomes. Particularities of the orofacial sphere	Oral, multimedia presentation	-	Disorders of lipid metabolism. Disorders of uric acid metabolism. Parotid swelling	2
12	TBL Mitochondria	Oral, multimedia presentation	-	Electrolyte and water balance	2
13	Cell senescence. Cell death. Aspects of cell and molecular biology in dental pathology	Oral, multimedia presentation	-	Degenerative CNS disease. Disorders of lipid metabolism. Ischemic heart disease. Carcinoma of head and neck	2
14	Review. Molecular biology techniques. Cell Biology: present and future	Oral, multimedia presentation	-	Immunodeficiency. Chromosomal disorders	2

Bibliography

Bibliography

1. „Cell Biology”, Mariana Cornelia Tilinca, University Press, Tirgu Mures, 2009
2. „Molecular Biology of the Cell”, Bruce Alberts, Alexander D. Johnson, Julian Lewis, David Morgan, Martin Raff, Watson D. James, 6th Edition, W. W. Norton & Company, 2014
3. „Essential Cell Biology”, Bruce Alberts, Karen Hopkin, Alexander D. Johnson, David Morgan, Martin Raff, Keith Roberts, Peter Walter, 5th Edition, W.W. Norton & Company, 2019
4. „Cell Biology”, Pollard T.D., Earnshaw W.C.: Saunders Elsevier, Philadelphia, 2008
5. The material presented in class

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Microscopy techniques. Light microscopy. Steps for preparing a permanent microscopy slide. Steps for preparing a native specimen for microscopy. Electron microscopy	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Carcinoma of head and neck	2
2	Shapes of the cells from the the gums, lip, dental pulp, mandible	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Carcinoma of the cervix. Disorders of muscle. Oral disorders (incl. Caries)	2
3	Chemical composition of the cell. Decalcification methods for the study of soft structures	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Inborn errors of metabolism. Disorders of calcium and vitamin D metabolis	2
4	Extensions of the cell surface. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Inflammatory bowel disease. Acute renal disease	2
5	Extracellular matrix. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Connective tissue disease	2
6	Shapes of the nuclei. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Lymphoproliferative disorders	2
7	Mid-term evaluation test	-	-	-	2
8	Cell division. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Chromosomal disorders. Malformations of lip/palate	2
9	Endoplasmic reticulum. Ribosomes. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Chromosomal disorders. Malformations of lip/palate	2

10	Golgi apparatus and cell secretion. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Disorders of lipid metabolism	2
11	Lysosomes. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Thyroid disorders. Disorders of pancreas. Disorders of lipid metabolism. Oral disorders (incl. Caries)	2
12	Mitochondria. Examples from the orofacial sphere	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Inborn errors of metabolism	2
13	Cell senescence. Cell death	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	Electrolyte and water balance	2
14	Review: review of all studied specimens, re-testing	Specimen examination in optical microscopy. Practical demonstrations. Multimedia presentation	-	-	2

Bibliography

Bibliography

1. „Cell Biology Practical Works Guide”, Mariana Cornelia Tilinca, Târgu Mureş, University Press, 2011
2. „Cell Biology”, Pollard T.D., Earnshaw W.C.: Saunders Elsevier, Philadelphia, 2008
3. „Molecular Biology of the Cell”, Bruce Alberts, Alexander D. Johnson, Julian Lewis, David Morgan, Martin Raff, Watson D. James, 6th Edition, W. W. Norton & Company, 2014
4. „Essential Cell Biology”, Bruce Alberts, Karen Hopkin, Alexander D. Johnson, David Morgan, Martin Raff, Keith Roberts, Peter Walter, 5th Edition, W.W. Norton & Company, 2019
4. Johnson K.E.: „Histology and cell biology”, Williams & Wilkins, Baltimore, 1991
5. The material presented in class

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Two TBL evaluations during the semester – the evaluation is mandatory and eliminatory – each represents 10% of the final grade	TBL	20
- practical activities	The activity throughout the semester (test and presentations) and practical works attendance	Practical evaluation, examination in optical microscopy	15
Final evaluation			
- theoretical final exam	Theoretical knowledge about the structure and ultrastructure of the cell and the molecular mechanisms of the living world. Multiple choice tests for the assessment of the theoretical notions taught during the semester. The theoretical exam is mandatory and eliminatory	Theoretical examination based on multiple choice tests, during the session	45
- practical final exam	Practical work: Recognition and description of the studied microscopic specimens: organ diagnosis, diagnosis of staining, description of studied structures, differential diagnosis. The practical exam is mandatory and eliminatory	Practical examination (Examination of microscopic specimens)	20
Minimal performance standards:			
Minimal performance standards:			
- The mid-term evaluation during the semester is compulsory and eliminatory (minimum passing grade is 5); recognition of a microscopic specimen: organ/ tissue diagnosis, diagnosis of staining, description of studied structures, differential diagnosis			
- The minimum passing grade for both exams – theoretical and practical – is 5			
- To obtain a grade of 5 for the practical exam, it is necessary to recognize and describe the studied microscopic			

specimens: organ diagnosis, diagnosis of staining, description of studied structures, differential diagnosis

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Zazgyva Ancuța-Marilena	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physiology			
2.2 Course coordinator: Șef I dr Metz Erzsebet-Julia			
2.3 Practical activities coordinator(s): Asist. univ. drd. Halațiu Bogdan, Asist. univ. drd. Kiss Rita			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 40		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 55		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular: Knowledge of basic concepts before the beginning of the lectures: mass, volume, density, force, velocity, acceleration, pressure, friction, yield, frequency, wave, ion, current, ionic current, current intensity, electric field, tension, matter, molecule, solution, mole, concentration, diffusion, osmosis, affinity, pH.
4.2 competency: A. understanding the difference between process and structure B. understanding the difference between the properties and components of a structure, understanding the difference between a process and its parameters C. characterization of substructures and subprocesses (a smaller structure can be part of a larger one, a process can be part of a process line etc.) D. understanding the chronology of processes E. understanding causality and effect

5. Conditions

5.1 for lectures: Lecture hall equipped with blackboard and digital projector
5.2 for practical activities: Rooms equipped with laboratory equipment necessary for „hands on” type laboratory practices

6. Specific competencies acquired

6.1 professional competencies: Attending the Physiology lectures will allow the students to understand the functions of different organs and organ systems, and the integration of these functions. Besides the acquisition of the knowledge regarding the basic

functions their correlation with the clinical practice is required as well, based also on the Pathophysiology and Pharmacology studied after the understanding of normal function. After attending the lectures students should be familiarized with the principles of the most frequently performed functional tests and able to perform simple experiments and interpret their results.

At the end of the lectures students should know the following key concepts and principles:

1. The general structure of the cells, with emphasis on the structure and functions of the cell membrane. Types and mechanisms of transport across the cell membrane.
2. The generation and spread of the electric impulse (resting membrane potential and action potential). The synaptic transmission, the general synaptic organization of the nervous system. The principles of muscle contraction.
3. The cardiovascular function, electrical and mechanical phenomena, heart cycle, principles of hemodynamics and circulation.
4. Physiology of blood: the role of red blood cells, white blood cells, platelets.
5. Physiology of respiration: respiration, ventilation, gas transport, control of respiration.
6. Physiology of the kidneys, filtration, tubular function, dilution and concentration of urine.
7. Gastrointestinal tract: salivary secretion, digestion, principles of nutrition.
8. Organization of the endocrine system, effects and mechanism of action of the main hormones, role of the endocrine system in the maintenance of homeostasis.

6.2 transversal competencies:

Knowledge of the connection between different mechanisms of homeostasis, the influence of the changes of the outer and inner environment, the multidisciplinary approach of the main mechanisms of life.

To work individually and in group to perform functional tests during the implementation of the theoretical knowledge.

Computer usage, continuous learning and self-testing.

To determine the necessity of biological tests, to plan and perform these.

To present the result of their own research in written or oral form in student's scientific events.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Integrated understanding the principles of normal body functions. The effect on the human body of the interaction between the body and its environment.

7.2 Specific objectives:

Knowledge of the physiological functions of the body as a whole and of the different systems and organs (macro-, microscopic and molecular details).

Recognition of problems caused by disturbances of the normal function.

Knowledge of the mechanisms of homeostasis.

Ability of individual learning and documentation.

Elaboration of functional tests and understanding, interpretation of the results.

Development of verbal skills, proper knowledge of terminology.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction, levels of organization of the human body. Inner environment and homeostasis. Cell membrane. Body fluid compartments. Diffusion. Osmosis. Oncotic pressure.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Oedema, joint swelling, loose stools, raised intracranial pressure, electrolyte and water balance.	2
2	Functions of the membrane proteins. Receptors. Types of the receptor-ligand interaction. Intracellular signal transduction. Activation-inactivation of proteins. Blood: introduction, hematocrit. Blood proteins. Red blood cells: morphology, number, function. Regulation of the red blood cell	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Anemia, Rhesus haemolytic disease, transfusion of blood products, cyanosis, hepatomegaly, jaundice, acute liver disease/failure, chronic liver disease, gallbladder disease, breathlessness, malabsorption, tiredness,	2

	number. Hemoglobin. Iron metabolism. Blood types, blood transfusion.			palpitations, drug reactions	
3	White blood cells: general description, classification. Mechanisms of the immune system. Innate and adaptive immune system. The cells of the immune system and interactions between immune cells. Antigen and antibody. Antibodies: production, structure, roles, types. MHC antigens. CD antigens. Immune tolerance and immune vigilance.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Infectious disease of childhood, myeloproliferative disorders, Rhesus haemolytic disease, pruritus	2
4	Primary and secondary immune response. Effector mechanisms of the immune system: the cytotoxic T cell, the complement system, phagocytosis, killing (enzymatic and oxidative). Macrophage: role, substances produced by the macrophage. Eicosanoids. Mast cell.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Immunisation, allergic disorders, asthma, bullous/vesicular skin eruption, shock	2
5	Histamine and its effects. Inflammation. Hemostasis: introduction, phases. Platelets	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Allergic disorders, asthma, coagulation disease, purpura.	2
6	Coagulation. Modulation of the coagulation cascade. Regulation of hemostasis. Laboratory assessment of hemostasis.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Coagulation disease, purpura, thromboembolic disease.	2
7	Physiology of the cardiovascular system – introduction, functional levels. Systemic and pulmonary circulation. Mechanical activity of the heart. Heart cycle. Heart sounds. Ionic channels and pumps. Membrane potential. Equilibrium potential. Action potential. Role of intracellular calcium ions. Generation and propagation of excitation. Recording of the electrical activity of the heart.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Cardiac conduction/rhythm disorder, cardiac valve disease, cardiorespiratory arrest, palpitations.	2
8	Elastic blood vessels. Pulse. Relationship between the diameter and elasticity of the vessels and the blood flow. Resistive blood vessels. Redistribution of circulation. Blood pressure. Control of the blood pressure. The renin-angiotensin system. Exchange level. Capillaries. Capacitive level. Regulation of the cardiac output. Factors that influence the venous return.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Cerebrovascular disease, peripheral vascular disease, shock, hypertension, varicose veins.	2
9	Renal physiology. Morpho-functional description of the kidneys. Clearance. Primary and final urine. Glomerular filtration and its control. Tubular function. Glucose-type resorption. The diluting and concentrating function of the kidneys. Control mechanisms.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with	-	Electrolyte and water balance, drug reactions, Acid base disturbance, acute renal disease/failure, anemia, chronic liver disease, disorders of lipid metabolism, hypertension, oedema,	2

		students.		polyuria	
10	Physiology of respiration. Ventilation. Perfusion. Alveolar gas exchange. Control of respiration.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Breathlessness, dizziness, pleural effusion, pneumothorax, respiratory tract infections.	2
11	Physiology of the nervous system: introduction. Neuron. Interneuronal communication types. Synaptic signaling. Excitatory and inhibitory neurotransmitters. The role of noradrenalin, dopamine, serotonin and acetylcholine in the nervous system.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Terminal care, post-operative care, pre-operative care, cranial nerve disorders, brain tumor.	2
12	Sensory systems. Nociception. Receptors. Peripheral transmission of the nociceptive signal. Spinal processing of the nociceptive signal, cerebral polymodal integration.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Abdominal pain, back pain, pain management, migraine, peripheral nerve disorders.	2
13	Endocrine system: principles. Autocrine, paracrine and endocrine control. The hypothalamo-pituitary system. Anterior and posterior pituitary gland. Adrenal cortex. Calcium and phosphate metabolism	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Psychosexual dysfunction, infertility, pituitary disorders, brain tumor, diabetes mellitus, disorders of calcium and vitamin D metabolism, thyroid disorders, hypoglycaemia, hypogonadism.	2
14	Digestive physiology. Salivary secretion. Mastication. Secretion of gastric juice and its control. Gastrointestinal motility. Emesis and the control of emesis.	Oral and multimedia presentation. Development of logical diagrams on the blackboard, discussion with students.	-	Infant feeding, carcinoma of the stomach, carcinoma of the pancreas, gastroenteritis, acute liver disease/failure, gall bladder disease, chronic liver disease, oral disorders, eating disorders, peptic ulcer	2

Bibliography

Metz Júlia, Orbán-Kis Károly, Szilágyi Tibor: Physiology - lecture notes, 2021.

web-page of the Department of Physiology

Optional:

- Linda S. Costanzo: Physiology, Elsevier, 2017

- Berne & Levy Physiology, Elsevier, 2017

- W. Boron: Medical Physiology, Elsevier, 2016

- Guyton AC, Hall JE.: Textbook of Medical Physiology, Elsevier, 2016

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	General presentation of the laboratory of physiology. Safety procedures and rules in the physiology laboratory. Standards of professional ethics in experimental laboratory.	Oral presentation	-	not applicable	3
2	Measurement of plasma electrolytes.	Oral presentation + laboratory activity	-	Electrolyte and water balance, loose stools, oedema, vomiting.	3

3	Acid-base balance. The role of acid-base balance in homeostasis.	Oral presentation + laboratory activity	-	Electrolyte and water balance, acid-base disturbance.	3
4	Principles of blood cell count. Counting of red blood cells, leucocytes and eosinophiles	Oral presentation + laboratory activity	-	Anemia, cyanosis.	3
5	Leucogram. Peripheral blood smear.	Oral presentation + laboratory activity	-	Immunisation, asthma, pruritus.	3
6	Counting of thrombocytes. Bleeding and coagulation times.	Oral presentation + laboratory activity	-	Coagulation disease, purpura, thromboembolic disease.	3
7	Blood typing. Hemoglobin	Oral presentation + laboratory activity	-	Jaundice, Rhesus haemolytic disease, transfusion of blood products	3
8	Assessment of the cardiovascular system: pulse, blood pressure	Oral presentation + laboratory activity	-	Drug reactions, chest pain, disorders of lipid metabolism, ischemic heart.	3
9	Assessment of the cardiovascular system. Recording the electrical activity of the heart	Oral presentation + laboratory activity	-	Cardiac conduction/rhythm disorder, cardiorespiratory arrest, palpitations.	3
10	Functional assessment of the respiratory system.	Oral presentation + laboratory activity	-	Breathlessness, dizziness, stridor, pleural effusion, pneumothorax, respiratory tract infection.	3
11	Functional assessment of the nervous system: reflexes, reaction time	Oral presentation + laboratory activity	-	Peripheral nerve disorders	3
12	Functional assessment of the endocrine system	Oral presentation + laboratory activity	-	Psychosexual dysfunction, infertility, pituitary disorders, brain tumor.	3
13	Assesment of the visual system. Assessment of the auditory system	Oral presentation + laboratory activity	-	Visual impairment, visual loss, hearing loss	3
14	Formative evaluation: evaluation of knowledge obtained at the laboratory practices	-	-	not applicable	3
Bibliography web-page of the Department of Physiology					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- the integration of molecular/cellular functions in organism-level functions; - the normal function is on the base of pathological clinical conditions; - performing experiments; - interpretation of clinical tests.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0

- practical activities	Assessment of knowledge acquired during the semester	Written/MCQ/oral exam	30
Final evaluation			
- theoretical final exam	Assessment of theoretical knowledge gained during the semester	Summative assessment – Written/MCQ test	70
- practical final exam	-	-	0
Minimal performance standards: Students are required to attend laboratory practices according to the schedule of groups and rooms. Students should have a proper theoretical background. Students should perform certain practical activities and will be evaluated during the labs. If the student fails to fulfill the requirements, the lab should be repeated. Students are allowed to attend further examinations only if they have no missed laboratory practices (regardless if the student was not present or validation of the laboratory practice was denied). Students who failed to fulfill their obligations during the year have to repeat all the laboratory practices during the next academic year. The missed laboratory practices (regardless the cause: absence or not validated) can be recovered during the cycle of the laboratory practices (according to the schedule) or during the recuperations scheduled at the end of the module, but not more than one laboratory practice per day, depending on the existence of vacant seats in the room and with the permission of the teacher. According to The Rulebook of Didactic and Professional Activity of Students in Bachelor's and Master's Programs, the existence of a motivation form the Dean's Office means only that the student can recuperate without paying a fee. Students are required to perform the given practical exercises and to keep a record of them. At the end of each laboratory practice, the assistant lecturer will certify with his/her signature the lab's validity. Evaluation of knowledge obtained at the laboratory practices will be done by a formative assessment at the end of the semester (compulsory in the last week of the semester). This formative evaluation is part of the evaluation of the student's activity throughout the year: If the grade obtained at this evaluation is below 5.00, the physiology exam is automatically considered failed. If the formative assessment at the end of the semester is failed, it can be repeated in the reexamination sessions. Students who were absent for medical reasons (they must present proof), can recuperate the formative assessment at the end of the semester during the first, ordinary, session. The grade from the formative evaluation during the last week of the semester accounts for 30% of the final grade. The final summative evaluation is a written test. At the final summative evaluation, only those students can participate who attended the formative assessment at the end of the semester. Students who were absent at the formative evaluation at the end of the semester are not allowed to participate at the final summative evaluation, as they did not complete their professional obligations. At the summative evaluation, the entire curriculum is considered for integrative questions. The time for testing and the number of questions and answers may vary according to the number of lecture hours of the specialization. To pass the final summative evaluation, at least 50% of the maximum score of the test should be obtained. The final summative evaluation accounts for 70% of the final grade. The mean value calculated from all the grades must be ≥ 5.00; otherwise the exam is considered failed.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Metz Erzsebet-Julia	Joi 8-10

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Anatomy and embriology			
2.2 Course coordinator: Conf dr Mureșan Mircea-Gabriel			
2.3 Practical activities coordinator(s): Conf.Dr. Mircea Muresan, Sef.Lucrari Dr. Alin Nechifor			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 35		
- supplemental documentation at the library, from specialized information portals and in the field: 15		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 5		
- other activities: 0		
3.8 Total hours of individual study: 55		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular: Not applicable
4.2 competency: basic knowledge in biology, a fair command of the English language, basic understanding and communication skills

5. Conditions

5.1 for lectures: A blackboard of min. 5 m2, colored chalks, projecting device, inclusive an adequate software for presenting static and motion pictures
5.2 for practical activities: Anatomical specimens, human corpse

6. Specific competencies acquired

6.1 professional competencies: Describing and interpreting fundamental notions of the morphology and functioning of the dentomaxillary apparatus, integration of these in concepts/situations meant to apply solutions with the aim of formulating hypotheses and to correctly interpret signs, symptoms and paraclinical modifications for building a morphological and a clinical diagnosis, developing of novel professional competences in the general and the specific dentistry healthcare.

6.2 transversal competencies: Acquiring skills and techniques which enable identification of objectives to be fulfilled, of resources available, of the conditions to match, of the work phases, of the deadlines and afferent risks according to a minimal standard: implementation of projects under coordination for solving certain problems specific of the field
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The student becomes acquainted with the principles of organization, development and functions of the dentomaxillary apparatus generally, and with the specific human aspects particularly. He becomes able to observe and to anticipate the topographic relations between the components of the human dentomaxillary apparatus and to interpret them in a functional context. The student will gain practical and detailed knowledge about the development of the dentomaxillary apparatus and the oral cavity, parts of the body that yet are to be studied which represent the area of their medical activity. The student will comprehend the interrelations between the various components and will be able to make distinction their variations falling within the normal limits versus the pathological phenomena and will also acquire the ability to communicate about this the observations and share his experience with others.
7.2 Specific objectives: Learning the functional anatomy of the dentomaxillary apparatus, its components, the phylogenesis and ontogenesis of the face and of the neck, of the regional anatomy, radiologic anatomy, anthropometry and biochronology. From a functional point of view, emphasis is set on the biomechanics of the motions in the TMJ, of the mastication and of the deglutition. The student will be able for a theoretical and a practical orientation in the oral cavity, especially in the entourage of the dentomaxillary arches. He will develop a vision about the shape and content of the oral cavity with a clear notion of the normal within, both morphologically and functionally, which in turn will serve as a reference when the task will be the restoration of normal relations through his therapeutical activity. The student will also develop an appropriate and detailed vocabulary used in all of the branches of the science he has chosen. The acquired knowledge will serve as a basis for the further studies and the specific sciences in dentistry.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to the study of the anatomy. General osteology.	Oral presentation, Powerpoint presentation, Video materials	-	Osteoarthritis. Osteomyelitis. Osteoporosis	2
2	The articulated skeleton (vertebral column, osteothorax, pelvis)	Oral presentation, Powerpoint presentation, Video materials	-	Vertebral pathology Thoraco abdominal trauma	2
3	General arthrology and myology. Biomechanics of joints and muscles	Oral presentation, Powerpoint presentation, Video materials	-	Movement disorders, joint pain, joint swelling	2
4	Upper and lower limb muscles	Oral presentation, Powerpoint presentation, Video materials	-	Oral presentation, Powerpoint presentation, Video materials	2
5	Blood supply of the superior limb. Brachial plexus	Oral presentation, Powerpoint presentation, Video materials	-	Peripheral vascular disorders	2
6	Blood supply of the inferior limb. Lumbosacral plexus	Oral presentation, Powerpoint presentation, Video materials	-	Peripheral vascular disorders	2
7	Application of the knowledge on clinical cases	TBL	-	-	2

8	A topographic synthesis of the walls of the cavities of the torso A topographic synthesis of the walls of the cavities of the torso. The zones of lesser resistance.	Oral presentation, Powerpoint presentation, Video materials	-	Muscular disorders. Herniae	2
9	Anatomy of the mediastinum. Functional anatomy of the lungs Functional anatomy of the heart.	Oral presentation, Powerpoint presentation, Video materials	-	Pleuraesia Pneumothorax Thoracoabdominal trauma	2
10	Anatomy of the abdominal cavities. Peritoneum and the peritoneal formations.	Oral presentation, Powerpoint presentation, Video materials	-	Peritonitis Appendicitis Feeding disorders	2
11	Blood supply of the abdominal organs Functional anatomy of the liver. System of the port hepatic vein. Vascularization and innervation of retroperitoneum.	Oral presentation, Powerpoint presentation, Video materials	-	Hepatomegalia, Coagulopathies, Chronic hepatic disorders, Hepatic encephalopathies, Gall bladder disorders, Acute hepatic disorders	2
12	Functional anatomy of the urogenital organs	Oral presentation, Powerpoint presentation, Video materials	-	Chronic renal disorders Pathology of the prostate Urinary incontinence	2
13	A topographic synthesis of the of the pelvis and perineum in male and in female	Oral presentation, Powerpoint presentation, Video materials	-	Anorectal pain	2
14	Application of the knowledge on clinical cases	TBL	-	-	2
Bibliography 1.Richard Drake, PhD, A. Wayne Vogl, PhD and Adam W. M. Mitchell. Gray's Anatomy. ISBN: 978-0-443-06952-9. 2.Romanes: Cunningham's Practical Anatomy vol I.-I.-III.					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The bones of the torso. The bones of the facial skeleton, the maxilla, the mandible, the hyoid bone. Frontal, parietal and ethmoid bones. Temporal and occipital bones.	Demonstrations on preparats human corpse	-	-	3
2	The bony nasal cavity, the bony orbit, the pterygopalatine fossa. The infratemporal fossa, the temporal fossa and the bony palate. The internal and external skull base	Demonstrations on preparats human corpse	-	-	3
3	The bones of the superior limb. Muscles of the superior limb.	Demonstrations on preparats human corpse	-	-	3
4	Vessels of the superior limb. Regions of the shoulder girdle. Nerves of the super limb. Regions of the arm of the elbow and of the forearm. Regions of the forearm, of the wrist, of the hand	Demonstrations on preparats human corpse	-	-	3
5	The bones of the inferior limb. Muscles of the inferior limb.	Demonstrations on preparats human corpse	-	-	3
6	Vessels of the inferior limb. Regions of the pelvic girdle. Nerves of the inferior limb. Regions of the thigh, knee and calf.	Demonstrations on preparats human corpse	-	-	3
7	Osteology seminar	Demonstrations on preparats human corpse	-	-	3
8	Muscles and regions of the trunk. Intercostal spaces. Descriptive anatomy of the lungs and pleurae.	Demonstrations on preparats human corpse	-	-	3

9	External configuration of the heart, its cavities, the great vessels. Topography of the mediastinum. Pericardium and the diaphragmatic region.	Demonstrations on preparats human corpse	-	-	3
10	Anatomy of the stomach, of the liver and of the pancreas. The hepatic compartment.	Demonstrations on preparats human corpse	-	-	3
11	The compartment of the stomach. Descriptive anatomy of the intestines. The inframezocolic compartment.	Demonstrations on preparats human corpse	-	-	3
12	Descriptive anatomy of the kidneys and urinary ways.	Demonstrations on preparats human corpse	-	-	3
13	Anatomy of the retroperitoneum	Demonstrations on preparats human corpse	-	-	3
14	Application of the knowledge on clinical cases	Demonstrations on preparats human corpse	-	-	3
Bibliography 1.Richard Drake, PhD, A. Wayne Vogl, PhD and Adam W. M. Mitchell. Gray's Anatomy. ISBN: 978-0-443-06952-9. 2.Romanes: Cunningham's Practical Anatomy vol I.-II.-III.					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Practical value of the classes, not merely of the practical for gaining skills and competence for qualification.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	MCQ TEST	10
- practical activities	Seminar of osteology	Oral examination	20
Final evaluation			
- theoretical final exam	Paper based exam	MCQ TEST	40
- practical final exam	Paper based exam	Identifying structures on pictures	30
Minimal performance standards: Student is supposed to know the interrelations between the systems and subsystems of the body, to make a distinction between variations within the limits of normal and to discern the pathological. He is also due to communicate about these with others. The student develops a correct vision about the shape and content of the living body, the functional normality which is to re-establish by his therapeutic attitude. The student also builds up a vocabulary that well be used in his further day-by day work			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Mureșan Mircea-Gabriel	Vineri 11-13, La Disciplina Anatomie

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Biochemistry			
2.2 Course coordinator: Prof dr Tero-Vescan Amelia			
2.3 Practical activities coordinator(s): Conf Dr Nemes Nagy Eniko			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 20		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 15		
- tutorial activities: 5		
- examinations: 5		
- other activities: 8		
3.8 Total hours of individual study: 83		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Correlation of the diseases with biochemical processes at molecular level involved in imbalances which can affect the state of health of dental tissues. Conservative treatment behaviour of dental and periodontal structures according to biochemical aspects which can influence of above mentioned structures. Diagnosis and therapy of dento-maxillary anomalies taking into consideration any enzyme and vitamin deficiency involved in the development of dento-maxillary area. Prosthetic restoration of dental arches using the most suitable dental materials in correlation with the biochemical peculiarities of each patient.

6.2 transversal competencies: identification of objectives achieved, resources available, conditions for their completion, phases of work, working time, periods of achievement and risk factors. Identification of roles and responsibilities in a multidisciplinary team in which biochemical metabolism-related knowledge may provide crucial information on the treatment and techniques applied and application of bonding techniques and efficient work within the team and in conjunction with the patient. Efficient usage of informational sources and resources for communication and assisted training.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The aim of the discipline is the formation of a general professional view of medical students. Our aim is presenting the main metabolic pathways taking place in the living cells, with remarks referring to the metabolism of dental and periodontal tissues. Another objective of this course is a general presentation of bacterial metabolism related to tooth decay
7.2 Specific objectives: Assimilating knowledge regarding the particularities of biochemical metabolism at the level of the oral cavity. Knowledge of the degradation processes during the formation of dental caries and periodontal diseases

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Amino acids: classification, physical and chemical properties. Peptides with biological importance. Proteins: structure and biological role	oral presentation	-	-	2
2	Lipoproteins. Glycoproteins. Chromoproteins: myoglobin and hemoglobin - structure, biological role, transport of oxygen, CO and CO ₂ . Nucleoproteins, nucleosides and nucleotides. Structure of nucleic acids. Macroergic nucleotides	oral presentation	-	-	2
3	Enzymes (I): structure, classification, nomenclature, specificity, active centers. Models of ES complex formation.	oral presentation	-	-	2
4	Enzymes (II): enzyme kinetics, enzyme activators and inhibitors. regulation of enzyme activity. The localization of enzymes and their origin in plasma	oral presentation	-	-	2
5	Water-soluble vitamins: thiamin, riboflavin, niacin, pyridoxine, biotin, pantothenic acid, folic acid, cobalamin, ascorbic acid - biological role and deficiency	oral presentation	-	-	2
6	Fat-soluble vitamins: carotenes and retinoids, vitamins D, tocotrienols, vitamins K - biological role and deficiency	oral presentation	-	-	2
7	Metabolic processes: general ways of metabolizing organic compounds in the body. central pathways of metabolism: Krebs cycle - mechanism, energy balance, anaplerotic reactions, amphibolic character. The respiratory chain and oxidative phosphorylation	oral presentation	-	-	2

Bibliography

David L Nelson, Michael M Cox - Lehninger Principles of Biochemistry, 8th Edition, 2021
 Jeremy M. Berg, Lubert Stryer, John Tymoczko, Gregory Gatto - Biochemistry 9th Edition, 2019
 Thomas M. Devlin - Textbook of Biochemistry with Clinical Correlations, 7th Edition, 2015
 Tero-Vescan A, Ōsz BE, Imre S – Principii de Biochimie Medicală, Ed University Press Tîrgu Mureş, 2018

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Biochemical analysis. Biological materials used in the biochemistry laboratory. Techniques for plasma protein precipitation and supernatant collection.	individual practical activity or in a group of 2 people	-	-	2

2	The concept of pH. Colorimetric and potentiometric determination of pH. Buffer capacity	individual practical activity or in a group of 2 people	-	-	2
3	Preparation of percentage, molar, normal solutions. Preparation of a 0.1N HCl solution, determination of the factor. Errors of volumetric determinations. titration of a NaOH solution with HCl solutions. preparation of a solution of NaCl 2g% and physiological serum	individual practical activity or in a group of 2 people	-	-	2
4	Color reactions of amino acids and proteins (biuret reaction, ninhydrin, xanthoprotein reaction, identification of amino acids with sulfur, Pauli reaction). Protein precipitation reactions	individual practical activity or in a group of 2 people	-	-	2
5	Determination of the concentration of amino acids in the serum by the Sorensen method	individual practical activity or in a group of 2 people	-	-	2
6	Spectrophotometry. Determination of proteins by the biuret method	individual practical activity or in a group of 2 people	-	-	2
7	The chemical composition of teeth. Mineralization of teeth	individual practical activity or in a group of 2 people	-	-	2
8	Determination of calcium by the photometric method. Determination of magnesium in serum by the Mann-Yoe method	individual practical activity or in a group of 2 people	-	-	2
9	determination of serum phosphate by the Briggs method. Determination of fluorine by the potentiometric method	individual practical activity or in a group of 2 people	-	-	2
10	Determination of direct and total bilirubin in the serum	individual practical activity or in a group of 2 people	-	-	2
11	Determination of blood glucose by the enzymatic method. Using the glucometer	individual practical activity or in a group of 2 people	-	-	2
12	Determination of serum iron. Determination of hemoglobin as oxyhemoglobin	individual practical activity or in a group of 2 people	-	-	2
13	Pathological urine analysis. Rapid laboratory tests	individual practical activity or in a group of 2 people	-	-	2
14	Blood vitamin C determination	individual practical activity or in a group of 2 people	-	-	2

Bibliography

Oșan A, Nagy E, Tero-Vescan A - Biochimie practică, Ed University Press Tîrgu Mureș, 2008

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Knowledge of biochemistry is necessary for understanding at molecular level the processes that occur in the dental tissues.

Metabolic pathways involved in the process of caries formation and inflammatory processes that occur in periodontal tissues must be known.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL evaluation	MCQ	10
- practical activities	quizzes or lab reports	MCQ or lab report	20
Final evaluation			
- theoretical final exam	Theoretic exam	MCQ	70
- practical final exam	-	-	0
Minimal performance standards: General knowledge of the main metabolic pathways. The role of vitamins in the body. Biochemical aspects of the dental caries formation process			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Tero-Vescan Amelia	Luni 8-10 Miercuri 12-14

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Biophysics			
2.2 Course coordinator: Șef I dr Szakács Juliánna			
2.3 Practical activities coordinator(s): Șef I dr Szakács Juliánna			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 12		
- tutorial activities: 2		
- examinations: 5		
- other activities: 3		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
not applicable
5.2 for practical activities:
Knowledge of the topic of the practical works, the principle and work method of each experiment. Preparation of report before the given deadline.

6. Specific competencies acquired

6.1 professional competencies:
Knowledge and understanding of basic concepts, theories and methods of the topic and the field of study, proper usage of them in professional communication. Description of basic methodology of scientific research. Description of basic concepts, theories which influence the health condition of a definite community.
6.2 transversal competencies:
Identification of roles and responsibilities in a pluridisciplinary team and application of relationship and efficient work techniques. Execution of a work / project effectuation specific tasks in a pluridisciplinary team.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
Identification and explanation of physical phenomena of biological system's function, explanation of functional principles of medical apparatus.
7.2 Specific objectives:
Usage of some practical methods and physical tools of medical investigation. To measure, describe and explain physical phenomena in biological systems at the atomic to large molecular structure level. To explain the operating principles of medical devices (for best operating and safe use of the equipment).

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	1. A short introduction to Biophysics. Biophysics in general context of the biological sciences. The subject and methods of Biophysics. The origin and development of Biophysics. Achievements and perspectives in Biophysics.	oral presentation powerpoint presentation blackboard drawings	-	Diagnosis at the cellular/molecular/quantum level	2
2	2. Basic concepts of biological thermodynamics. Biological thermodynamics concepts. First principle of thermodynamics. Thermodynamics state functions. The biological applicability of the first law of thermodynamics. Second principle of thermodynamics. The biological applicability of the second law of thermodynamics. Free energy fluxes in biological systems.	oral presentation powerpoint presentation blackboard drawings	-	Disorders of Metabolism, Malnutrition, Inborn errors of metabolism, Eating disorders	2
3	3. Water in the biological systems. Structure of the Water Molecule. Physical Properties of Water. The Heavy Water. Models of Liquid Water Structure and Transformations in Presence of Solutes. Water in Living Organisms.	oral presentation powerpoint presentation blackboard drawings	-	Hypothermia, Acid based disturbance	2
4	4. Biomembranes. Models: The lipid amphiphilic bilayer model. The Danielli-Dawson-Robertson model. Models based on sub-units. The fluid mosaic model. Biomembranes components structuring: arrangement of lipids, proteins and carbohydrates	oral presentation powerpoint presentation blackboard drawings	-	Disorders of lipid metabolism, Electrolyte and water balance	2
5	5. General Considerations of Permeability and Transport through Membranes. Passive transport: Simple diffusion, Osmosis, Facilitated diffusion Active transport: Primary active transport, Secondary active transport, Transport by membrane vesicles. Research on the transmembrane transport.	oral presentation powerpoint presentation blackboard drawings	-	Disorders of lipid metabolism, Electrolyte and water balance	2
6	6. Membrane Potentials. The Resting Potential. The Action Potential	oral presentation powerpoint presentation blackboard drawings	-	Spinal disorders, EKG, EEG, EMG, ERG	2

7	7. Biophysics of Respiration. Basically laws involved in the process of respiration.	oral presentation powerpoint presentation blackboard drawings	-	Respiratory tract infection, Pneumothorax, Cardiorespiratory arrest	2
8	8. Biophysics of Blood Circulation. Haemodynamics. Biophysics of Cardiac Contractions. The Elasticity of Large Blood Vessels and of Heart . The Pulse.	oral presentation powerpoint presentation blackboard drawings	-	Cardiac conduction/rhythm disorder, Cardiac valve disease, Hypertension, Ischemic heart disease, Malformations of cardiovascular system, Pericardial disease, Peripheral vascular disease	2
9	9. Muscle Contraction. Chemo-Mechanical Conversion of Energy. Muscular Mechanics and Energetic. Striated Muscle Structure. Muscle Shortening Mechanism.	oral presentation powerpoint presentation blackboard drawings	-	Movement disorders, Disorders of muscle, Inflammatory arthritis	2
10	10. Biophysics of the Vision System. The eye as an optical system. Mechanisms of photoreception. Spectral sensibility of the eye. Visual acuity. Chromatic view. Eye defects and their correction.	oral presentation powerpoint presentation blackboard drawings	Test 1	Vision defects	2
11	11. Biophysics of the Hearing System. The auditory receptor's structure. The electric potential of the internal ear. The genesis of the nervous impulse in the auditory recipient. Information's transmission to the nervous centres.	oral presentation powerpoint presentation blackboard drawings	-	Otitis media	2
12	12. Nuclear Radiations. Sources of nuclear radiations. Characteristic physical quantities of radioactive sources. The interaction of the radiations with the substance. The biological action of radiations. The radiosensitivity of cells and tissues. Biological effectivity. The measurement of biological effects. Irradiation sources of the body. The principles of the present norms of radioprotection.	oral presentation powerpoint presentation blackboard drawings	-	Radiology and radiotherapy	2
13	13. Biological action of non-ionizing radiation. Bunsen's Law. Grotthus' Law. The biological effects of the ultraviolet radiation. The biological effects of the radiations from the visible spectrum. The biological effects of the infrared radiation. The biological effects of the microwaves	oral presentation powerpoint presentation blackboard drawings	Test 2	Radiology and radiotherapy	2
14	14. Imagistic Methods. Röntgen Computerized Tomography. Nuclear Magnetic Resonance.	oral presentation powerpoint presentation blackboard drawings	-	Radiology and radiotherapy	2

Bibliography

Bibliografie obligatorie:

1. Medical Biophysics (3rd edition, Editors: S. Damjanovich, J. Fidy, J. Szöllősi, Medicina, Budapest, 2019, ISBN: 978-963-226-127-0)

2. Medical biophysics practices

Bibliografie suport:

1. Moldovan Mircea, Nicolaescu Ioan, Biophysics Laboratory Notebook and Laboratory Reports, University Press, Târgu Mureș, 2009

2. Nicolaescu Ioan, Moldovan Mircea, Biophysics, University Press, Târgu Mureș, 2010

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	1. Physical quantities. Measurements of physical quantities. Units. Types of errors. Data processing.	oral instruction practical demonstration	-	does not correlate	2
2	2. Determining the solids density by the help of a pycnometer	oral instruction practical demonstration	-	Anemia, Acid based disturbance	2
3	3. Determining the liquids density by the help of a pycnometer	oral instruction practical demonstration	-	Anemia, Acid based disturbance	2
4	4. The Höppler and Ostwald viscosity instrument	oral instruction practical demonstration	-	Anemia, Acid based disturbance	2
5	5. Measuring electrical resistances. Measuring the electromotive force	oral instruction practical demonstration	-	Disorders of lipid metabolism, Electrolyte and water balance	2
6	6. Determining the angular magnification of a microscope. Determining the index of refraction	oral instruction practical demonstration	-	Anemia, Acid based disturbance	2
7	7. Determining the focal distance of a thin lens	oral instruction practical demonstration	-	Vision defects	2
8	8. Determining concentrations of solutions through the polarimetric method.	oral instruction practical demonstration	-	Diabetes mellitus	2
9	9. Determining the solution concentration through the refraction method	oral instruction practical demonstration	-	Nephrosis	2
10	10. Determining concentrations of solutions through spectrophotometric method. Plotting the absorption spectrum.	oral instruction practical demonstration	-	Electrolyte imbalance	2
11	11. Determining the enthalpy variation in the dissolving process	oral instruction practical demonstration	-	Metabolic disorders, Malnutrition, Inborn errors of metabolism, Eating disorders	2
12	12. Determining the specific heat of a solid body	oral instruction practical demonstration	-	Metabolic disorders, Malnutrition, Inborn errors of metabolism, Eating disorders	2
13	13. Determining the activity of a gamma source. Plotting the Curve of Statistical Distribution of the Counting Speed.	oral instruction practical demonstration	-	Radiology and radiotherapy, Bereavement	2
14	14. Examination of practical work.	Individual work	-	not applicable	2

Bibliography

Bibliografie obligatorie:

1. Medical Biophysics (3rd edition, Editors: S. Damjanovich, J. Fidy, J. Szöllösi, Medicina, Budapest, 2019, ISBN: 978-963-226-127-0)

2. Medical biophysics practices

Bibliografie suport:

1. Moldovan Mircea, Nicolaescu Ioan, Biophysics Laboratory Notebook and Laboratory Reports, University Press, Târgu Mureș, 2009

2. Nicolaescu Ioan, Moldovan Mircea, Biophysics, University Press, Târgu Mureș, 2010

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

By acquisition of our discipline's content, the student accumulates the basic knowledge needed to understand courses of speciality, like: physiology, biochemistry, cell biology.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent

			of final grade
Evaluation during the semester			
- lecture	Understanding and integration of all theoretical concepts Knowing of bibliographical references	10% 1st Test (Test1) and 10% 2nd Test (Test2)	20
- practical activities	Correlation between theoretical and practical notions Capacity of performing practical work	-validation of the practical activities during the semester -practical examination	10
Final evaluation			
- theoretical final exam	Understanding and integration of all theoretical concepts Knowing of bibliographical references	written examination	50
- practical final exam	Correlation between theoretical and practical notions Capacity of performing practical work	-validation of the practical activities during the semester -practical examination	20
Minimal performance standards: Minimal performance standards: The minimum passing grade for theoretical exam and practical exam is 5 (five). FG-final grade weight of the grades: 10% 1st test (Test1) 10% 2nd test (Test2) 10% lab activity (LA) 20% lab exam (LE) 50% theoretical exam (TE) $FG = 0,1 \cdot Test1 + 0,1 \cdot Test2 + 0,1 \cdot LA + 0,20 \cdot LE + 0,5 \cdot TE$			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Szakács Juliánna	30 de minute după fiecare curs / activitate practică

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical deontology. Bioethics			
2.2 Course coordinator: Conf dr Popa Octavian-Cosmin			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Not applicable
4.2 competency: Not applicable

5. Conditions

5.1 for lectures: Not applicable
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: - To acquire the skills for integrating the principles of ethics and bioethics in the practice of the medical profession; - To understand the issues and implications of ethics and bioethics in the medical field; - To recognize the importance of the therapeutic relationship and respect for patients' rights, in accordance with ethical and bioethical rules; - To correlate bioethics concepts with health legislation.
6.2 transversal competencies: - To acquire knowledge about avoiding malpractice and other unethical attitudes; - To understand the connection between the practice of the medical profession and medical ethics; - To develop problem-solving skills in the medical profession, from the perspective of medical ethics and deontology.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
- To understand the importance of medical ethics / ethics and bioethics from a multidisciplinary perspective involving medicine, philosophy, psychology, theology and law, as well as their application in the medical context;
- To ensure optimal preparation and awareness by students of the imminent problems of medical ethics and bioethics.
7.2 Specific objectives:
- To learn and apply the principles of medical ethics and bioethics in relation to patients;
- To demonstrate respect for the rights of patients, taking into account the concepts of suffering and dignity;
- To know the legislation regarding the current ethical issues in the medical context.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	An introduction in the problematics of ethics and bioethics	Oral presentation, Powerpoint presentation	-	Without ICS correlation	2
2	Consent, truth telling, and confidentiality in relation to patients	Oral presentation, Powerpoint presentation	-	Without ICS correlation	2
3	Genetic interventions. Is everything that can be scientifically proven also ethical?	Oral presentation, Powerpoint presentation	-	Without ICS correlation	2
4	Physician-Assisted Death and Euthanasia	Oral presentation, Powerpoint presentation	-	Without ICS correlation	2
5	Ethical and bioethical issues regarding abortions	TBL	-	Without ICS correlation	2
6	The implications of ethics and bioethics in mental disorders	Oral presentation, Powerpoint presentation	-	Without ICS correlation	2
7	Conflict of interest and medical disclosure. Multicultural and religious perspectives in bioethics	Oral presentation, Powerpoint presentation	-	Without ICS correlation	2

Bibliography

1. Dunn, M., Hope, T., (2018). Medical Ethics: A Very Short Introduction, Oxford: OUP Oxford.
2. Pattinson S.D. (2020) Medical Law and Ethics, 6th edition, London: Sweet & Maxwell.
3. Sokol, D. (2018) Tough Choices: Stories from the front line of medical ethics, London: Book Guild Publishing Ltd.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

By focusing on issues such as human dignity and suffering, emphasizing the importance of respecting patients' rights, medical ethics and bioethics are integrated into all medical specializations, both in terms of clinical practice and research.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Comprehension of bioethics and medical deontology concepts	Project	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Acquisition of theoretical knowledge and application of bioethics and medical deontology concepts	Multiple choice test/ Final theoretical project	70
- practical final exam	-	-	0

Minimal performance standards:

The examination will take place at the end of each semester, during the pre-examination period. The final grade will be calculated with the above formula. Students must understand and apply the specific methods of bioethics and medical deontology, arguing each case logically, coherently and correctly.

The minimum graduation grade is 5 (five).

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Popa Octavian-Cosmin

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical communication. Behavioural sciences. Medical sociology			
2.2 Course coordinator: Conf dr Popa Octavian-Cosmin			
2.3 Practical activities coordinator(s):			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 3		
- examinations: 3		
- other activities: 3		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
- High abilities for collecting information from patients, used the clinical intake interview.
- Practical knowledge related with the clinical psychological assessment for different psychological and/or organic diseases.
- Basic psychotherapeutic (CBT) skills regarding of treatment for depression, anxiety disorders and personality disorders.
- General knowledge regarded to application of mindfulness and relaxations techniques in the medical settings.
6.2 transversal competencies:
- Identify and establish a correct psycho-diagnosis of psychological disorders.
- Interdisciplinary approaches of relations between psychological factors and different psyche and/or organic disorders/disease.

- A dialectic perspective used for understanding causes of etiopathogenesis for many disorders related with psychological factors.
- Acquisition of communication skills based on humanistic and compassion attitude in relation with the patients.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
 - Acquiring skills in the field of medical psychology that will be used from the perspective of clinical application of different psychological techniques in treatment of patients.

7.2 Specific objectives:
 - The understanding of specific dysfunctional thinking involved in psychological disorders.
 - The understanding of the relationship between thoughts - emotions and behavior in psychological and / or organic disease.
 - Good capacity to choose a appropriate psychological questionnaire for a specific psychological disorder.
 - Good capacity in a conduct a clinical psychological interview with a patient.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in medical communication	Presentation, oral exposure	-	-	2
2	Core skills in medical communication	Presentation, oral exposure	-	-	2
3	The relationship between genetics and psychological diseases. The implication of neuroscience in medical psychology	Presentation, oral exposure	-	-	2
4	Psychological problems involved in mood disorders	Presentation, oral exposure	-	-	2
5	Anxiety sensitivity. The distress-vulnerability model	Presentation, oral exposure	-	-	2
6	Emotional regulation and dysregulation. The implication of negative dysfunctional emotions.	Presentation, oral exposure	-	-	2
7	Cognitive-behavior therapy for depression, anxiety, and personality disorders. The Beckian's approach	Presentation, oral exposure	-	-	2
Bibliography Popa, O.C., Lee, W., Rus, A.V. (2020) New approaches behavioral sciences, Tirgu-Mures:University Press.					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Conducting a clinical interview with patients	Role-play, small group work	-	-	2
2	Core skills in medical communication. Applications.	Role-play, small group work	-	-	2
3	The implication of neuroscience in medical psychology. Practical applications.	Role-play, small group work	-	-	2
4	The assessment and psychological intervention in mood disorders	Role-play, small group work	-	-	2
5	Anxiety sensitivity. Techniques for the management of anxiety disorders	Role-play, small group work	-	-	2
6	Emotional regulation and dysregulation. Practical applications.	Role-play, small group work	-	-	2
7	Cognitive-behavioral techniques for improving the quality of life	Role-play, small group work	-	-	2
Bibliography Popa, O.C., Lee, W., Rus, A.V. (2020) New approaches behavioral sciences, Tirgu-Mures:University Press.					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The complexity of challenges and interdisciplinary nature in medical field, supposes that the doctors acquire a high level theoretical and practical skills. Also, this abilities must be completed with knowledge from medical psychology for a good understanding of sanogenesis and pathogenesis factors involve in health and disease.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	According to the requirements of the discipline.	TBL	15
- practical activities	According to the requirements of the discipline.	Project	15
Final evaluation			
- theoretical final exam	According to the requirements of the discipline.	Multiple choice test	40
- practical final exam	According to the requirements of the discipline.	Role-play/project	30
Minimal performance standards: Minimum grade for passing the evaluation is 5 (five),			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Popa Octavian-Cosmin

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: -
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physical education			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Lect dr Steff Zakarias			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Șef I dr Țurcanu Dana-Simona			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture:	3.3 practical activities: 4
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 0		
3.9 Total hours: 28		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: good health - harmonious physical development - adequate physical qualities
4.2 competency: Knowledge of techniques learned in high school to develop body strength and physical qualities. - practice of sports (competitive/leisure)

5. Conditions

5.1 for lectures: -
5.2 for practical activities: Sport gym, fitness gym, tennis courts, outdoor, swimming pool, football court

6. Specific competencies acquired

6.1 professional competencies: - Making use of the information, methods and means specific to physical education and sports in order to optimize health and harmonious physical development - Building the skill of knowledge transmission referring to exercises to develop basic physical skills, qualities and muscle usage - Application of specific methods to develop physical qualities

6.2 transversal competencies:

- Application of rule systems specific to the organization and practice of physical education and sports, as well as acquisition and application of adequate behavior in interpersonal relations and in groups
- Using body language to express and understand ideas, feelings, general and physical aesthetics of the body
- Using electronic means to select information regarding elements that are characteristic to physical development
- Active integration into various groups

6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Systemic and organized practice of physical exercise and favored sports

7.2 Specific objectives:

- 1) Continuous improvement of healthy condition, physical and mental vigour and harmonious body development ;
- 2) Raising of the general motricity level and aquirement of basical sport skills;
- 3) Participating at interuniversity's competitions

8.1 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introductory lesson ; the requirements of a Physical Education class	explication, demonstration, repetition	-	-	2
2	Athletics – the school of running	explication, demonstration, repetition	-	-	2
3	Basketball – checking the initial level of acquiring the basic elements	explication, demonstration, repetition	-	-	2
4	Volleyball - checking the initial level of acquiring the basic elements	explication, demonstration, repetition	-	-	2
5	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
6	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
7	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
8	Athletics – developing leg strength with different jumping exercises	explication, demonstration, repetition	-	-	2
9	Basketball - repeat the dribbling, ball catching and passing	explication, demonstration, repetition	-	-	2
10	Swimming – teaching the basic elements	explication, demonstration, repetition	-	-	2
11	Aquagym	explication, demonstration, repetition	-	-	2
12	The testing contain two tests which targets the physically skills, as long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.), speed running on 30m or the swimming test which means to swim 25m pool length in one of the 4 main events of swimming	activity evaluation	-	-	2
13	Testing the students who where absent at the tests	activity evaluation	-	-	2

14	End of school year, conclusion of the school report; recommendations for the sporting activity during the holidays.	conclusion	-	-	2

Bibliography

1. Badau D., Tanase T. → Volei, teorie si metodica, Ed. OMNIA, Brasov, 2006
2. Carstea G. → Teoria si metodica educatiei fizice, Ed. An→Da, Bucuresti, 2000
3. Hantiu I. → Teoria educatiei fizice si sportului, note de curs, Univ. Oradea, 2012
4. Macovei S. → Stretching, Ed AFIS, Bucuresti, 2012
5. Neagu N → Teoria si practica activitati motrice umane, Ed. University Press, Tg. Mures, 2010
6. Filipescu, D., Gherghișan, D., Bologa, M., → Educație fizică în învățământul superior medical, Editura UMF, 2001
7. Badau D. → Metodica disciplinei sportive → handbal, Ed. Universitatii Transilvania din Brasov, 2009
8. Badau A, Ungur R, Badau D. – Activitățile fizice acvatice indoor, Ed, Universitatii Transilvania Brasov, 2016

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Development of the capacity to choose healthy life-style, by practicing sports, combining physical exercise with intellectual efforts, motion and rest, work and leisure.
- Availability to practice physical exercise independently
- Constant interest in sports as a phenomenon

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	the attendance on the lessons - control test of the 1st semester - control test for 2nd semester	Total attendances for the both of semester -finish all the control tests -effectuate two essay one in each semester for the students those exempt from physical education	100
Final evaluation			
- theoretical final exam	-	-	0
- practical final exam	Minimal performance standards: 1. Assist for at least 70% of the lessons, that means 20 attendances/year (including the exempted students) 2. The final examination contains 2 motor tests, at the student choice, as follow: long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.), speed running on 30m or the swimming test which means to swimm 25m pool length in one of the 4 main events of swimming. For the students who are exempted from effort, they need to realize a paperwork on the final of the semester, in domain of physical education, theme which is chosen by the own teacher. (they don't need to go to the physically tests.)	Total attendances for the both of semester -finish all the control tests -effectuate two essay one in each semester for the students those exempt from physical education	0

Minimal performance standards:
Minimal performance standards:
1. Assist for at least 70% of the lessons, that means 20 attendances/year (including the exempted students)
2. The final examination contains 2 motor tests, at the student choice, as follow: long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.), speed running on 30m or the swimming test which means to swimm 25m pool length in one of the 4 main events of swimming.
For the students who are exempted from effort, they need to realize a paperwork on the final of the semester, in domain of physical education, theme which is chosen by the own teacher. (they don't need to go to the physically tests.)

11. Appointment timetable (for students)

Lect dr Steff Zakarias	Luni 18-19
Șef I dr Țurcanu Dana-Simona	Miercuri, de la 10 - 12, sala Pongratz

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Romanian language			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Asist Ciortea Eduard			
2.4 Year of study: I	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture:	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
Videoproiector

6. Specific competencies acquired

6.1 professional competencies: Studentul va prezenta, la nivel începător, următoarele abilități: -citirea corectă și fluentă, precum și înțelegerea conținutului și ideilor generale ale unui text simplu -înțelegerea mesajelor receptate pe cale auditivă -vorbirea cu respectarea regulilor gramaticale și de pronunție -cunoașterea și utilizarea corectă a unui vocabular de bază
6.2 transversal competencies: Utilizarea limbii române ca mijloc de comunicare cu alți vorbitori ai acelei limbi, în situații generale.
6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Cunoașterea limbii române la nivel mediu pentru a putea înțelege mesajul unui text scris sau audiat.
7.2 Specific objectives: La finalul cursului, studentul va prezenta abilități de comunicare, formulare de întrebări și răspunsuri pe teme precum: prezentare, casa, ocupație, interese, familie.

8.1 Content of seminar, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Alfabetul si sunetele limbii române. Prezentarea. Formule de salut	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
2	Date personale (nume, naționalitate, țară) Pronumele personal, verbul „a fi”	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
3	Date personale (vârstă, adresă, profesie) Mulțumiri și scuze	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
4	Verbul „a avea”, „a face” Numeralul cardinal	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
5	Substantivul: număr, gen. Sala de clasa: obiecte inconjuratoare Articolul nedefinit plural	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
6	Culorile, acordul adjectivului Conversația telefonica	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
7	Exprimarea timpului: ora, zile, luni, anotimpuri, vremea Exerciții. Recapitulare	Rezolvarea unor probleme, conversația, dialogul, munca pe perechi și în grup; PBL; TBL	-	-	4

Bibliography

1. Bălănescu, Olga, Limba română pentru străini, Editura Ariadna, București, 2006
2. Dafinoiu, CV, Pascale, LE, Limba română - manual pentru studenti straini, Ed. Univ. București, 2015
- Hedeșan, Otilia (coordonator), Jebelean, Elena, Leucutia Florentina, Musat, Nicoleta, Percec, Dana, Popa, Corina Bun venit in România! Manual de limba română și de orientare culturală, Imprimeria MIRTON, Timișoara, 2008
3. Kohn, Daniela, Puls. Manual de limba română pentru străini. Curs A1-A2, Polirom, Iași, 2009
4. Geană, Ionuț, Limba română pentru străini, Editura Univers, București, 2014
5. Mandelbrojt-Sweeney, M., Limba engleză pentru medici și asistente, Polirom, București, 2006
6. Platon, Elena, Sonea, Ioana, Vilcu, Dina Manual de limba română ca limbă străină (RLS), Casa Cărții de Știință, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Cunoașterea limbii romane va facilita comunicarea cu pacientii si personalul medical in timpul stagiilor de practica si integrarea in comunitatea locala

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Abilitatea de a intelege si completa exercitii de multiple choice, potrivire, folosirea corecta a numarului, articolului verbelor invatate	Test scris care cuprinde exercitii de vocabular si gramatica	50
Final evaluation			
- theoretical final exam	-	-	0
- practical final exam	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, raspuns la intrebari, dialog medic-pacient	50
Minimal performance standards:			
Să se poată prezenta, să răspundă la întrebări legate de familie, casă, interese, timp, să poată formula întrebări și cere informații folosind un vocabular de bază, o pronunție clară și fără greșeli mari la nivelul organizării discursului			

și al folosirii structurilor gramaticale necesare comunicării.

11. Appointment timetable (for students)

Asist Ciortea Eduard	30 de minute după fiecare activitate practică

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: How to read and publish statistical results in medical research			
2.2 Course coordinator: Conf dr Olah Peter			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 4		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 1		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
• The student will need to demonstrate the ability to organize and graph numerical and non-numerical data in a scientific study or experiment.
• Demonstrating the ability to understand and present the statistical protocol in the Material and Method section of a scientific article
• Demonstrating the ability to present the statistical results in the Results section of a scientific article and to interpret these results in the Discussions, respectively Conclusions sections of the article
6.2 transversal competencies:
• Ability to critically evaluate the presentation of the statistical protocol and of the results in biomedical scientific articles

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

• In the current context of evidence-based medicine, Biostatistics has become one of the essential work tools for the practitioner or researcher in the biomedical field. The volume of specialized literature is constantly growing, and the selection of relevant information in this context is becoming more and more challenging. As such, the main objective of this discipline is to develop students' skills to critically read specialized literature and to eloquently publish the results of their own research, from the point of view of statistical protocols and statistical results.

7.2 Specific objectives:

- Developing students' ability to graphically represent numerical and non-numerical data, as well as to interpret such representations published in specialized literature
- Developing students' ability to present the statistical protocol used in the Material and Method section of a scientific article
- Developing students' ability to present the statistical results obtained in the Results section of a scientific article.
- Developing the students' ability to present the conclusions reached based on the statistical results in a scientific article

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Data types. Data organization. Primary data. Indexed data. Contingency tables.	Oral presentation, Powerpoint presentation, Video materials	-	Biological variability	2
2	Graphic representation of numerical and non-numerical data	Oral presentation, Powerpoint presentation, Video materials	-	-	2
3	Presentation of the statistical protocol in the Material and Method section of a scientific article	Oral presentation, Powerpoint presentation, Video materials	-	-	2
4	Presentation of statistical results in the Results section of a scientific article.	Oral presentation, Powerpoint presentation, Video materials	-	-	2
5	Presentation of conclusions based on statistical results in the card of a scientific article	Oral presentation, Powerpoint presentation, Video materials	-	Clinical trials	2
6	Correlations and regressions. The correlation coefficient. The coefficient of determination. Linear and non-linear regressions. Their importance in the biomedical field.	Oral presentation, Powerpoint presentation, Video materials	-	Clinical trials	2
7	VERIFICATION of accumulated theoretical knowledge	Grid test with Multiple Choice Questions	-	-	2

Bibliography

1. Bacărea Vladimir, Ghiga Dana, Mărușteri Marius, Oláh Péter, Petrișor Marius - A Primer in Research Methodology and Biostatistics, University Press Targu Mures, 2014
2. Motulsky Harvey, Intuitive Biostatistics: A Nonmathematical Guide to Statistical Thinking, Oxford University Press, 2013

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Adequate acquisition of the mentioned curricular content provides the student with the theoretical and practical framework for the critical reading of scientific articles in the biomedical field, as well as basic skills to correctly and

eloquently present the protocols and results obtained in their own studies and research.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Understanding and integration of all theoretical concepts Knowledge of bibliographical references	Multiple choice test	100
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	-	-	0
- practical final exam	-	-	0
Minimal performance standards:			
• The ability to organize and represent relevant data according to the needs of a scientific study or experiment • The ability to correctly present the statistical protocol and its results in a scientific article • The ability to formulate correct and pertinent conclusions based on statistical results			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Olah Peter	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: -
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Advanced digital skills			
2.2 Course coordinator: Prof dr Enăchescu Călin			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 4		
- supplemental documentation at the library, from specialized information portals and in the field: 3		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 3		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular: -
4.2 competency: knowledge of PC use, knowledge of Internet use

5. Conditions

5.1 for lectures: classroom with video projector and Internet
5.2 for practical activities: classroom with video projector and Internet

6. Specific competencies acquired

6.1 professional competencies: Elaboration and communication of plans and projects in the field of ensuring cyber security. Identifying cyber security dimensions. The use of cyber security techniques, mechanisms and procedures for the protection of personal and organizational data.
6.2 transversal competencies: Optimum management of professional tasks and learning to execute them on time, rigorously, efficiently and responsibly; Compliance with ethical rules specific to the field (eg: confidentiality) Application of team communication techniques; the development of empathic interpersonal communication skills and the assumption of specific roles in teamwork with the aim of making the group's activity more efficient and saving resources, including human resources

Identifying and using effective learning methods and techniques; awareness of the extrinsic and intrinsic motivations of continuous learning.

6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The discipline underpins the field of cyber security – terminology, threats, vulnerabilities, risks, cyber attacks, protection and response measures to IT security incidents, disaster recovery measures.

Through the topics covered, the course raises the degree of preparation and awareness of students in the field of the urgent need to protect data, services and systems in the context of the Security by Design paradigm.

7.2 Specific objectives:

After completing the assignments, students will be able to understand the fundamental concepts of cyber security in the context of an increasingly digitized society.

The content is focused on the concrete presentation of the main topics in the field of cyber security adapted to the requirements necessary to protect data, IT systems and services, and the appropriate tools for developing cyber resilience capacities and increasing the level of culture in the field of cyber security.

Students will understand the risks related to the processing and storage of data in a virtual environment, the risks of using the Internet and interconnected computing systems, and will be able to identify and choose methods and mechanisms that provide an adequate degree of protection of personal IT data, systems and services and organizational.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to Cyber Security. The need for cyber security. Domains of cyber security.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
2	Protection of data and personal privacy. Organizational protection. Behavioral approach to cyber security. Programmatic approach to cyber security.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
3	Dimensions of cyber security. The CIA Triad (Confidentiality, Integrity, Availability). Cyber security guarantees.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
4	Cyber Threats, Vulnerabilities and Attacks – Concepts, Mechanisms and Techniques. Countermeasures against cyber threats. Understanding reactive, proactive and operational security.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
5	Data encryption as a mechanism to provide data privacy. Access control. Data masking as a data security and protection mechanism.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
6	Data integrity. Types of data integrity checks.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
7	Availability of IT systems and services (The Five Nines concept). Responding to IT security incidents. Disaster recovery.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation /	-	-	2

	conversation, case studies, dissemination of results)			
Bibliography 1. Augenbaum S., The Secret to Cybersecurity: A Simple Plan to Protect Your Family and Business from Cybercrime, Forefront Books, 2019. 2. Cisco Networking Academy, Cybersecurity Essentials, v1.1, https://www.netacad.com . 3. Evans L., Cybersecurity: What You Need to Know About Computer and Cyber Security, Social Engineering, The Internet of Things + An Essential Guide to Ethical Hacking for Beginners, Independently published, 2019. 4. Evans L., Cybersecurity: An Essential Guide to Computer and Cyber Security for Beginners, Including Ethical Hacking, Risk Assessment, Social Engineering, Attack and Defense Strategies, and Cyberwarfare, Independently published, 2018. 5. Kennedy G., Data Privacy Law: A Practical Guide to the GDPR, Bowker, 2019. 6. Stallings W., Cryptography and Network Security: Principles and Practice, 8th Edition, Pearson, 2020.				

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Corroboration of the contents of the discipline with the expectations of community representatives, professional associations and representative employers in the field related to the program:

Today's society has become totally dependent on technology, and especially on managing data in digital format. The role of cyber security, both for individuals and organizations, regardless of their business, is vital for data protection and for guaranteeing the functioning of IT services, systems and infrastructures. The inclusion of security procedures and policies within professional activities is no longer an end in itself, but an objective necessity. For this reason, the discipline is structured in a practical and pragmatic way to respond to these realities. Moreover, the entry into force of the GDPR legislation imposes strict measures regarding the protection of personal data in the European Union space, which determines the obligation of digital culturalization in the field of cyber security of every employee in every organization / company. In this context, the topics studied provide the set of information necessary for the understanding and application of the protection mechanisms of digital data and IT infrastructures.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Formative assessment to verify preparation throughout the semester. The ability to analyze and synthesize	TBL testing	30
- practical activities	Acquiring and understanding the treated issue	written test	50
Final evaluation			
- theoretical final exam	Summative evaluation to verify the preparation and understanding of the course topic. Knowledge of fundamental notions and concepts.	written test	20
- practical final exam	-	-	0
Minimal performance standards: - Knowledge of the concepts, mechanisms and techniques that underpin the field of cyber security. - Identifying the dimensions of cyber security. - Designing basic sets of security procedures and policies at personal and organizational level. - A minimum grade of 5 must be obtained for each evaluation and each exam.			

11. Appointment timetable (for students)

Prof dr Enăchescu Călin	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Historical impact of drug discoveries			
2.2 Course coordinator: Şef I dr Bán Érika-Gyöngyi			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 0		
- supplemental documentation at the library, from specialized information portals and in the field: 11		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
According to the Internal rules and Regulations of the D.of Pharmacology and Clinical Pharmacology
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
The interesting historical influences caused by certain drug discoveries
6.2 transversal competencies:
Correlation between the medical use of medications and the effects behind
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Understanding the impact of pharmacological drug discoveries on the world's history
7.2 Specific objectives: Correlation between the use of a medicine and the effects observed in the population

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The history of medicine shaped by drugs. Strong active substances in plants – common and famous poisonings.	MS Power Point, Case based interactive discussions	-	Drug reactions	2
2	. The art of discovery in medicine – penicillin and five more	MS Power Point, Case based interactive discussions	-	Drug reactions	2
3	The modern drug discovery cycle. Drug discovery in America: story of curare and others	MS Power Point, Case based interactive discussions	-	Drug reactions	2
4	The use of placebo in medicine. . James Lind and the citrus fruits in scurvy therapy	MS Power Point, Case based interactive discussions	-	Drug reactions	2
5	The opium war. Drug discovery in ancient Asia: India and Tibet	MS Power Point, Case based interactive discussions	-	Drug reactions	2
6	The “PILL”. Drug discovery in Europe: German and Greek traditional medicine	MS Power Point, Case based interactive discussions	-	Drug reactions	2
7	Clinical trials – then and now Regulatory affairs of drug discovery: US and Canada, UK, EU and Japan	MS Power Point, Case based interactive discussions	-	Drug reactions	2

Bibliography

Bibliografie: 1. Thomas Hager - Ten Drugs; Abrams Press; 2019

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Project presentation	Oral presentation	50
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Knowledge regarding the overview of pharmacological implications of drug discovery	Written assignment/Oral exam	50
- practical final exam	-	-	0
Minimal performance standards: Passing grade: 5.00			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Bán Érika-Gyöngyi	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Applied linguistics and communication skills in Romanian language			
2.2 Course coordinator: Lect dr Năznea Adrian			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
sală dotată cu echipamente multimedia
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
La sfarsitul cursurilor, studentul va putea sa:
-foloseasca functiile specifice limbajului de specialitate (sa adreseze intrebari, formuleze opinii, sfaturi, sa convinga,
sa explice, sa descrie situatii concrete specifice domeniului medicina dentara)
-citeasca fluent si corect si sa inteleaga continutul unor texte de specialitate de dificultate medie/ avansata
-sa inteleaga mesaje receptate pe cale auditiva legate de sfera profesionala
-sa vorbeasca fluent si corect, folosind un vocabular variat si adecvat unor situatii specifice domeniului
-sa scrie corect, conform regulilor gramaticale, folosind un stil si un vocabular adecvat continutului de idei
-sa utilizeze un vocabular variat de termeni din domeniul de specialitate.

6.2 transversal competencies: Studentul va putea să: -utilizeze limba română ca mijloc de comunicare cu alți vorbitori ai aceleiași limbi în situații din domeniul medicinei dentare; - facă prezentări orale; - se documenteze și să structureze informații, să sintetizeze date obținute prin chestionare administrate unui grup țintă pentru pregătirea și elaborarea de lucrări în domeniu, participarea la stagii; - se familiarizeze cu utilizarea unor platforme de comunicare virtuală și munca în grup.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Cunoașterea limbii române la nivel avansat.
7.2 Specific objectives: Dezvoltarea celor patru abilități de bază: citirea, înțelegerea mesajelor receptate pe cale auditivă, comunicarea verbală, comunicarea scrisă precum și familiarizarea cu vocabularul din domeniul de specialitate.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introducere în terminologia medicinei generale 1. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
2	Introducere în terminologia medicinei generale 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
3	Introducere în terminologia medicinei dentare 1. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
4	Introducere în terminologia medicinei dentare 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
5	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice	-	nu este cazul	2

	interviul 1. Comunicare și vocabular	corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea			
6	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și interviul 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
7	Bolile dinților. Boli parodontale. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2

Bibliography

Butiurcă, Doina, 2009, Fundamentele greco-latine ale terminologiei medicale, Revista Limba Română, Nr. 11-12
Frînculescu, Iulia Cristina, 2009, Limbajul medical românesc în sincronie și diacronie, Revista UNITERM, nr.7/
2009
Melnic V., 2003 , Mijloace de formare a terminologiei clinice medicale in limba romana, Revista Limba română, Nr.
2-3, anul XIII
Rusu, Valeriu, 1983 Mic dicționar medical, vol. I, II, Iași
Ursa A., Marcean, N., 2018, Limba română medicală. Româna pentru obiective specifice, Limes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Corectitudinea structurilor folosite - Complexitatea limbajului - Adecvarea la registru, nivel de formalitate specifice situatiei	Întrebări cu complement multiplu, formare de cuvinte, potrivire de cuvinte, completare de spații	100
- practical final exam	-	-	0

Minimal performance standards:

Să poată interacționa cu pacientul în conducerea interviului medical, să știe să adreseze întrebări referitoare la anamneză, să poată oferi explicații, recomandări simple; să citească și să înțeleagă ideile principale ale unui text sau mesaj audio, să poată răspunde la întrebări pe baza lor fără greșeli mari la nivelul organizării discursului, să cunoască un număr satisfăcător de termeni specifici domeniului.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Lect dr Năznean Adrian	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M4
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Tobaccology			
2.2 Course coordinator: Șef I dr Germán-Salló Márta			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
mod de organizare frontal sau în condiții epidemiologice nefavorabile online
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Awareness of the fact that smoking is a chronic disease for which there are effective methods of treatment.
Assessment/diagnosis of tobacco consumption and tobacco dependence
Organizing the documentation of the smoking status in the medical records
Delivering the minimal intervention counseling of persons assisted smoker
Proper use of the available resources in anti-smoking counseling (specialized anti-smoking centers, quitline)
6.2 transversal competencies:
Awareness of the role of the physician in smoking prevention and in the prevention for smoking related diseases
Organizing a smoking prevention programs
Acquiring knowledge about the psychology of lifestyle change
Awareness of bio-psycho-social consequences of a widespread disease

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Correct diagnosis and treatment of the tobacco dependence disease
7.2 Specific objectives: Recognition and measurement of nicotine dependence Motivation for smoking cessation Delivering the brief anti smoking advice Knowledge of non-pharmacological and pharmacological methods for the treatment of nicotine dependence Realizing the role of the physician in anti-smoking efforts

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	History of tobacco use. Information on smoking prevalence and trends of consumption indicators worldwide, at European and national levels. Psychosocial causes of smoking. The economical aspects of smoking.	prezentare multimedia	-	-	2
2	Informations on the health consequences of tobacco smoking. Chemical composition of tobacco smoke. Causal role of smoking in respiratory diseases, cardiovascular diseases, tumors, hematological, gynecological diseases. Effects of smoking in pregnancy. Environmental effects of smoking . Social and economic impact of smoking	prezentare multimedia	-	durere în piept, dispnee, patologii cardiace ischemice	2
3	Recognition of tobacco use and dependence in general practice. Tobacco addiction industrial spread disease. The mechanism of tobacco dependence. The natural history of tobacco dependence Fagerstrom Test for the evaluation of dependence level. Clinical diagnosis of tobacco dependence (carbon monoxide, cotinine, using biomarkers)	prezentare multimedia	-	-	2
4	Smoking cessation. Therapeutic education. Behavioural support. Smoking cessation motivation. Brief advice on stopping tobacco use. Prevention of relapse.	prezentare multimedia	-	-	2
5	The role of the physician in tobacco control Cognitive - behavioral treatment of tobacco dependence. Nicotine replacement therapy (mechanism of action, clinical evidence of efficacy, indications, prescribing instructions, contraindications, adverse effects) treatment with bupropion, varenicline, Nonpharmacological interventions for smoking cessation	prezentare multimedia	-	-	2
6	Treatments recommended in special circumstances. Treatments recommended for pregnant women, under 18 years, Recommendations for smokers with respiratory and cardiovascular diseases, cancer or other comorbidities Recommendations for the prevention and management of weight gain following smoking cessation. Recommendations for preventing relapse. Group counseling for quitting smoking	prezentare multimedia	-	-	2
7	Smoking prevention at the population level. National tobacco control legislation. MPOWER strategy for global tobacco control. Governmental and non governmental institutions specialized in tobacco control	prezentare multimedia	-	-	2

Bibliography
 2018 European Network for Smoking and Tobacco Prevention (ENSP) European Smoking cessation guidelines 2016
<http://elearning-ensp.eu/assets/English%20version.pdf> ENSP
 Allen Carr's Easy Way To Stop Smoking

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Curricula disciplinei este alcătuită conform Standardelor europene de acreditare a serviciilor și programelor de formare profesională publicate în Ghidul European pentru renunțare la fumat redactat de ENSP European Network for Smoking and Tobacco Prevention
Course curriculum is designed according to the recommendations drafted in the European Standards for accreditation of training programs and services published European Guidelines for smoking cessation
ENSP(European Network for Smoking and Tobacco Prevention)

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Însușirea cunoștințelor de bază și capacitatea de a corela conceptele teoretice însușite	test grilă, multiple choice	100
- practical final exam	-	-	0
Minimal performance standards: Nota minimă de trecere 5 minima grade Tobacco epidemic in Europe and the world; Factors that lead to tobacco use; Pharmacological basis of tobacco dependence; Health dangers of tobacco; Other consequences(economic, environmental ..)of tobacco smoking; Approaches to tobacco control; The role of the physician in tobacco control; Delivering the brief anti smoking intervention Assessment of smoking status Analysis of previous attempts a patient smoking cessation Motivating smoking cessation in a clinical context Knowledge of support services for smokers functional in Romania Knowledge of the indications and contraindications for the treatment of smoking addiction medications Knowledge of global strategies to control smoking Tobacco control legislation			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Germán-Salló Márta

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Genetic hereditary factors in determining the scope of orofacial disorders			
2.2 Course coordinator: Prof dr Bănescu Claudia-Violeta			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 1		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
minim 10 persoane
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Formularea de ipoteze si interpretarea corectă a semnelor, simptomelor clinice, a modificărilor paraclinice. Acordarea sfatului genetic, calcularea riscului de recurenta a bolilor genetice. Evaluarea corectă a riscului de îmbolnăvire, respectiv alegerea si aplicarea măsurilor adecvate de profilaxie în familie si în populatie în caz de boală genetică. Implementarea unor abordări noi privind procesul de stabilire a diagnosticului si managementului bolilor genetice în relatie cu progresul cunoasterii si cel tehnic din domeniul biologiei moleculare Initierea si derularea unei activități de cercetare stiintifică în domeniul geneticii

6.2 transversal competencies:

Constientizarea nevoii de formare continuă în domeniul geneticii și biologiei moleculare în era de genetizare a medicinei: utilizarea eficientă a resurselor și tehnicilor de învățare pentru dezvoltarea personală și profesională, a surselor informaționale și a resurselor de comunicare, a literaturii de specialitate la zi, a bazelor de date genetice și softuri de asistare a stabilirii diagnosticului în bolile genetice cu implicare în sfera oro-maxilo-facială.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Înșușirea noțiunilor de genetică medicală cu aplicații în medicina dentară.

7.2 Specific objectives:

Cunoașterea rolului factorilor genetici în realizarea trăsăturilor fiziologice și a bolilor genetice cu implicare în sfera oro-maxilofacială.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Approaching of the patient with congenital malformations. Syndromes associated with filtrum abnormalities	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
2	Syndromes associated with lip abnormalities (full lips). Syndromes associated with lip abnormalities (cleft lip)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
3	Syndromes associated with tongue abnormalities (macroglossia, microglossia). Syndromes associated with tongue abnormalities (multiple frenulum, bifid tongue)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
4	Syndromes associated with teeth abnormalities (anodontia, hypodontia). Syndromes associated with teeth abnormalities (abnormalities of eruption, neonatal teeth)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
5	Syndromes associated with abnormality of the maxilla	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
6	Chromosomal abnormalities associated with oro-facial syndromes	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
7	Congenital anomalies induced by teratogens. Genetic counseling in syndromes affecting Craniofacial and Dental Structures	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases.	2

Bibliography

Bibliografie obligatorie:

1. Lyons Jones K., Crandall Jones M., Del Campo M. Smith's recognizable patterns of human malformation, 7th edition, Ed. Elsevier, 2013

Bibliografie suport:

2. Agnes Bloch-Zupan, Heddie Sedano, Crispian Scully. Dento/Oro/Craniofacial Anomalies and Genetics. Ed Elsevier, 2012.

3. Raoul Hennekam, Judith Allanson, and Ian Krantz. Gorlin's Syndromes of the Head and Neck, Editura: Oxford University Press. 2010

9. Correlations between the contents of the discipline and the expectations of the community

representatives, professional associations and representative employers in the domain

Recunoașterea și abordarea factorului genetic în determinarea tulburărilor din sfera oro-maxilofacială

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	According to the specifics of the domain	test, proiecte in echipa- discutii.	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	According to the specifics of the domain	written exam	70
- practical final exam	-	-	0
Minimal performance standards: Basic knowledge of medical genetics, The minimum grade to pass the exam is 5 (this will result from the grades received for activities during the semester and at the final exam). The theoretical exam consists of a test with simple and multiple choices, according to the regulation.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Bănescu Claudia-Violeta	30 min dupa curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Occupational diseases and work-related diseases in dentistry			
2.2 Course coordinator: Conf dr Moldovan Horațiu-Remus			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular: Cunoștințe generale de anatomie, fiziologie și fiziopatologie
4.2 competency: nu este cazul

5. Conditions

5.1 for lectures: Sala de curs, suport IT, platformă digitală pentru predare on/line, în funcție de evoluția epidemiologică
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Cunoașterea noxelor profesionale fizice, chimice și biologice, precum și a suprasolicitațiilor anumitor organe și/sau sisteme ale organismului în procesele de muncă în domeniul stomatologiei. Cunoașterea unor efecte ale acestor noxe asupra organismului.
6.2 transversal competencies: Aplicare de măsuri de prevenție eficiente pentru prevenirea îmbolnăvirilor profesionale sau a îmbolnăvirilor cu factori profesionali contributivi în domeniul stomatologiei.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Constientizarea, recunoasterea factorilor de risc profesionali la personalul din domeniul stomatologiei si a tehnicii dentare. Elaborarea unor planuri de preventie.

7.2 Specific objectives:

Recunoasterea semnelor, simptomelor unei eventuale imbolnaviri profesionale.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Occupational risks and risks related to occupation in dentists, classification. Physical injury factors in dentistry: basic ergonomics concepts; occupational injuries caused by vibration and noise.	Oral/ multimedia	-	osteomuscular pain, dizziness, hearing loss, pain	2
2	Occupational physical risks in dentistry: different types of electromagnetic radiation (laser, UV, visible light) -, ionizing radiation (Rx) -, occupational injuries caused by electricity, accidents.	Oral/ multimedia	-	asthma, dyspnea, burns, cardiorespiratory arrest, pruritus	2
3	Occupational physical hazards: microclimate and occupational diseases caused by various dust. Classification of elementary dust particles: metals, other types of dust (organic substances, inorganic substances, composites). Lung self-cleaning process, prevention techniques.	Oral/ multimedia	-	asthma, acne, carcinoma, gastric ulcer, intoxication	2
4	Occupational diseases caused by inorganic particles in dentistry: pneumoconiosis, interstitial pneumonia. Harmful chemical factors in dentistry: diseases caused by irritating gases, vapors, organic solvents.	Oral/ multimedia	-	immunodeficiency, candidosis, osteomyelitis, otitis media, tuberculosis, endocarditis, sepsis, skin infections, respiratory infections	2
5	Latex allergy. Contact dermatitis caused by acrylates and metals. Occupational asthma: epidemiology, diagnosis, evolution.	Oral/ multimedia	-	dermatitis, intoxication	2
6	Occupational diseases caused by metal oxides (Ni, Cr, Co, Hg) in dentistry. Diseases caused by biological factors in dentistry (epidemiology, prevention procedures - vaccination programs recommended by the WHO): HIV, hepatitis B, C, TB, other common bacterial, fungal and viral infectious diseases.	Oral/ multimedia	-	intoxications, chronic liver disease, vision loss, anxiety, neurological diseases	2
7	TBL	Oral/ multimedia	-	intoxications, chronic liver disease, vision loss, anxiety, sleep disorders, immunodeficiency, candidiasis, osteomyelitis, otitis media, tuberculosis, endocarditis, sepsis, skin infections, respiratory infections	2

Bibliography

1. Encyclopaedia of Occupational Health and Safety, 2012, online <http://www.iloencyclopaedia.org>
2. H.G. 355/2007
3. H.G. 1169/201
4. A. Cocarla, Medicina ocupationala, vol I, II, 2009 Editura Medicala Universitara Iuliu-Hatieganu, Cluj Napoca
5. L. Szasz, Vandemecum de medicina muncii, Editura Universitas, Targu Mures, 2008

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	during the lectures	participation in debates during classes	10
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	-final exam	-verification	90
- practical final exam	-	-	0
Minimal performance standards:			
- minimum presence for internship - 75%			
- patient examination and anamnesis - 25%			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Moldovan Horațiu-Remus

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Adhesive modern techniques in dentistry			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students).
Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Acquiring theoretical knowledge on contemporary dental adhesive techniques covering various ramifications of adhesion and adhesives in the broad domain of dentistry, providing an important evidence base. A solid grasp of the principles, mechanics and techniques of bonding and modern adhesive systems is essential in dentistry. The course includes theoretical aspects of the concept of „adhesive dentistry” as it is apparent that adhesion and adhesives play important roles in modern clinical dentistry. Students will develop skills and confidence through the design and execution of minimally invasive indirect and direct adhesive techniques in order to achieve the best functional and aesthetic results, in point of view of achieving an appropriate treatment plan.

6.2 transversal competencies: The course will be delivered as a series of interactive meetings. For students to achieve a comprehensive, well-rounded education, integrated teamwork on several fronts is vital. Teamwork is necessary between students and between students and teachers. The more teamwork fundamentals exhibited, the more opportunity exists for students to learn the vital skills of compromise and collaboration in modern adhesive dentistry.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: -The student has to understand the basic concepts on the techniques used in adhesive dentistry. -The student will learn to develop skills to apply the gained knowledge with an appropriate correlation in various clinical situations in which it is possible to use these methods.
7.2 Specific objectives: -The student will be able to describe the concepts and methods used in modern adhesive techniques. -The student will acquire the ability to understand different aspects of composition and properties of various adhesive systems which have implications for major applications in dentistry. -Applications of theoretical knowledge on various adhesive systems to their use in dental practice.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Adhesive techniques: from classic to modern. Explanation of the terms used, exemplifying.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Fundamental concepts of enamel and dentin adhesion.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Chemical and histological characters of enamel; adhesion to enamel. Chemical and histological characters of dentine; adhesion to dentin.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Materials, methods and technique options for adhesive fixing.	Test	Two hours every week in english.	-	2
5	Adhesive bridges.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Adhesive techniques used in pedodontics.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Successful treatment plans in adhesive dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C. Tehnici adezive moderne in medicina dentara. Editura: University Press 2015.
2. Jorge Perdigao: Current perspectives on dental adhesion: (1) Dentin adhesion – not there yet, Japanese Dental Science Review, 2020.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-Course content is in accordance with the courses on the same topic listed in other universities with important achievements in theoretical and empirical evidence techniques in adhesive dentistry. -Acquiring these modern restorative methods will be extremely useful for future dentists, adhesive techniques representing the greatest progress that restorative dentistry registers itself.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent

			of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic.	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of modern adhesive techniques used in dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	30 min după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Diet principles in oral pathology			
2.2 Course coordinator: Prof dr Tarcea Monica			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular: - nu e cazul
4.2 competency: - nu e cazul

5. Conditions

5.1 for lectures: minim 15 cursanti
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Descrierea noțiunilor de bază ale funcționării organismului uman și a mecanismelor generale de producere a bolilor. - Integrarea noțiunilor de bază în concepte/ situații care se aplică organismului uman cu scopul de a explica semne și simptome. - Descrierea conceptelor, teoriilor și noțiunilor fundamentale de fiziopatologie, pe sisteme și mecanisme de acțiune. - Stabilirea tehnicilor de îngrijire impuse de existența unor semne și simptome de boală. - Stabilirea principiilor terapeutice care modifică mecanismele fiziopatologice în vederea ameliorării simptomelor bolii. - Utilizarea noțiunilor dobândite în cadrul disciplinei pentru cercetarea științifică ulterioară

6.2 transversal competencies: Realizarea unei lucrări/referat/ caz clinic cu identificarea obiectivelor de realizat, a resurselor disponibile, condițiilor de finalizare a acestora, etapelor de lucru, timpilor de lucru, termenelor de realizare aferente și riscurilor aferente diverselor mecanisme fiziopatologice. - Identificarea rolurilor și responsabilităților într-o echipa pluridisciplinară și aplicarea de tehnici de relaționare și muncă eficientă în cadrul echipei și în relație cupacientul. - Utilizarea eficientă a surselor informaționale și a resurselor de comunicare și formare profesională asistată (portaluri Internet, aplicații software de specialitate, baze de date de tip PUBMED, cursuri on-line etc.) atât în limba română, cât și într-o limbă de circulație internațională. - Dezvoltarea gândirii medicale și folosirea informațiilor științifice în contextul interdisciplinarității
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Learning of basic diet principles and how to elaborate on specific diets recommended in various oral and dental illnesses. - To monitor and evaluate the hazards related to nutrition, their effects on teeth and oral mucosa, and proper intervention to reduce and prevent the illnesses related to it and to promote the dental health status of the population.
7.2 Specific objectives: - Analysis of main components of a healthy diet with a good impact on teeth - Identification of general functions and major food sources for each nutrient necessary for dental and oral system - To know the methodology of evaluation of food quality and food safety.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Definition and importance of nutrition in for a healthy dental status and prevention of chronic diseases. Healthy diet principles for mouth and teeth.	Oral presentation and multimedia	-	disorders of calcium and vitamin D metab	2
2	Dietary assessment. Digestion, absorbtion and metabolism of food and nutrients and dental impact.	Oral presentation and multimedia	-	eating disorders	2
3	Dietary reference and nutrients and caloric intakes for the body. Major food sources recommended in oral pathology and cooking technics	Oral presentation and multimedia	-	eating disorders	2
4	Diet recommendations during life cycle for healthy teeth: children, teenagers, adults, senior, athletes and pregnant women.	Oral presentation and multimedia	TBL	malabsorbtion	2
5	Diets and menus recommended in various oral and dental illnesses like: caries, edentations, trush, granulomatosis, dermatosis, candidiasis or viral infections.	Oral presentation and multimedia	-	candidiosis	2
6	Diets and menus recommended in cancer	Oral presentation and multimedia	-	malnutrition	2
7	Diets and lifestyle practices recommended in diabetes, heavy metals poisoning, fluorosis or xerostomia	Oral presentation and multimedia	Final evaluation by Essay	xerostomiosis	2

Bibliography

1. Mahan LK, Escott-Stump S. - Krause's Food, Nutrition, and Diet Therapy. 14th ed. W.B. Saunders Co, Philadelphia, 2014.

Bibliografie suport:

2. Nnakwe NE. – Community Nutrition, Planning Health promotion and Disease Prevention, 3rd edition, Edit. Jones & Bartlett Learning, 2017

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Evaluation and analysis of food nutritional risk factors and proper implementation of dental health programs, preventive measures, and education training for the population.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	test grila	10
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Verificare	Referat	60
- practical final exam	Studii de caz	Discutii, dezbateri	30
Minimal performance standards:			
- admitere la examenul practic doar daca nu depaseste 50% din absente nerecuperate			
- nota minima 5 la practic si teoretic			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Tarcea Monica	30 minute dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental materials in paediatric dentistry			
2.2 Course coordinator: Conf dr Kerekes-Máthé Bernadette-Evelyn			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 1/2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 1		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students). Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
-In addition to acquiring material handling modern techniques of dental materials used in restorative pediatric dentistry, the student will know the composition, the physical, mechanical and chemical properties of the dental materials in order to understand the impact of dental materials that come in contact with oral tissues and will have the necessary knowledge for a proper and effective use of these materials in practice. There is a specific use of the dental materials in pediatric dentistry, new restorative and therapeutic materials have been developed, and there are specific pedodontic materials that the student will endorse.
-Future dentist should know that there are many variants of restoring coronary lesions in temporary and young permanent teeth and he or she should be able to choose a material from the variety of options on the market. They must know which material is better, more efficient and especially which matches the requirements and

demands of the small patients, ensuring the optimum conditions to comply with the international norms. In addition, the student will understand the orthodontic biomechanical ways and the materials from which are manufactured the orthodontic brackets and devices for functional rehabilitation used in orthodontics.
6.2 transversal competencies: -Collaboration and teamwork is today a complex, requiring permanent university training. The student realizes that the work they perform it is a teamwork and the human factor is: the dentist, the dental assistant and the dental technician who must ensure the health and safety at work and the use of modern technologies in pediatric and orthodontic practice. -Teamwork, passion for performance and commitment to helping patients equally bounds students to become increasingly efficient dental professionals in dental practice. -Marketing and dental practice management performance through knowledge of dental materials. -Didactic activity in practical instruction or administration in the field of dental materials used in pedodontics and orthodontics.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: -To acquire the necessary knowledge for the proper and efficient use of materials in pediatric dentistry and orthodontics.
7.2 Specific objectives: -To acquire the ability to understand different aspects about the composition and properties of dental materials which have major implications in practice in pediatric dentistry and orthodontics. -Understanding theoretical aspects on dental materials to be able to use in pediatric dentistry.

8.1 Content of lecture, semester 1/2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Generalities, conditions of materials used in pediatric dentistry. Profilactic materials: fluoride containing products.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Pit and fissure sealants.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Materials for pulpo-dentinal protection, cavity base materials for pediatric dentistry use.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Restorative materials. Materials used for endodontic treatments in pediatric dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
5	Materials used for cementation of orthodontic appliances. Materials used for prosthodontic treatment in pediatric dentistry (crowns for children).	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Materials used for different orthodontic appliances.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Materials for mouthguards used in sport activities. Impression materials in pediatric dentistry. Generalities about reparation and reconditioning of appliances used in pediatric dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2

Bibliography

1. SC Leal, EM Takeshita: Pediatric Restorative Dentistry. Springer International Publishing, 2019.
2. Van Noort R: Introduction to Dental Materials. 4th ed. Mosby Elsevier Publishing, Edinburgh, 2016.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics.	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of dental materials used in paediatric dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Kerekes-Máthé Bernadette-Evelyn	30 de minute dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical first aid			
2.2 Course coordinator: Șef I dr Lazăr Alexandra-Elena			
2.3 Practical activities coordinator(s): Asist univ dr Branea Oana, Asist univ dr Almasy Eموke, drd Frandes Oana			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 8		
- supplemental documentation at the library, from specialized information portals and in the field: 8		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 1		
- examinations: 1		
- other activities: 2		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Basic anatomy and physiology knowledge
4.2 competency: -

5. Conditions

5.1 for lectures: Internet access. Video-projection possibility
5.2 for practical activities: Internet access Training manikins

6. Specific competencies acquired

6.1 professional competencies: After this course, the student will be able to recognize a life-threatening situation that implies first aid measures. Can recognize respiratory and cardiac arrest, and traumatic and neurologic emergencies. Will be able to execute first aid measures in the situations mentioned above.
6.2 transversal competencies: After this course, the student will recognize the specific cases where he is legally bound to intervene, know his competency level, and be trained to activate the emergency system 'survival chain'. The student will understand the ethical and legal aspects of his intervention, identifying the priorities and his role in a particular emergency situation.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Life-saving first aid maneuvers.
7.2 Specific objectives: First-aid situations can be encountered in a dental practice and if not solved, can endanger a patient's life.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	First aid measures: definition, objectives. Guidelines and protocols. Ethical and legal aspects of first aid.	Oral presentation Multimedia presentation	-	Cardio-respiratory arrest, sudden death, infant s sudden death	2
2	Cardio-respiratory arrest diagnosis. Resuscitation history. Chain of survival. Rescuers risks	Oral presentation Multimedia presentation	-	Cardio-respiratory arrest, sudden death, infant s sudden death	2
3	Children and infants Cardio-respiratory arrest resuscitation guidelines. Foreign body airway obstruction: diagnosis and first aid protocols in children and infants	Oral presentation Multimedia presentation	-	Cardio-respiratory arrest, sudden death, stridor	2
4	Adult Cardio- respiratory arrest resuscitation guidelines. Foreign body airway obstruction: diagnosis and first aid protocols in adults.	Oral presentation Multimedia presentation	-	Cardio-respiratory arrest, sudden death, stridor	2
5	Automatic external defibrillation. Special situation resuscitation: drowning, electrocution, pregnancy, hypothermia.	Oral presentation Multimedia presentation	-	Rhythm abnormalities, hypothermia.	2
6	Trauma. Acute coronary syndromes, dyspnea, fainting, convulsions, stroke, diabetic coma- first aid measures. Animal/ insects bites/ stings, behavioral emergencies: diagnosis and first aid measures	Oral presentation Multimedia presentation	-	Thoracic and abdominal trauma, head trauma, limb trauma, spine trauma. Ischemic cardiac pathology. Diabetes. Epilepsy.	2
7	Shock. Hemorrhage. Diagnosis and first aid protocols.	Oral presentation Multimedia presentation	-	Shock	2

Bibliography

<http://www.cprguidelines.eu/2020>

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Universal safety measures	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
2	Airway, foreign body airway obstruction protocol, lateral safety position in adults, children and infants.	Practical activities Multimedia presentation	CBL	Dyspnea	2

3	Adult Basic life support	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
4	Adult Basic life support	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
5	Children and infants' basic life support	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
6	Children and infants' basic life support	Practical activities Multimedia presentation	CBL	Cardio-respiratory arrest	2
7	Trauma - fracture splinting, victim mobilization, transportation. First aid in hemorrhages.	Practical activities Multimedia presentation	CBL	Thoracic and abdominal trauma, head trauma, limb trauma, and spine trauma.	2

Bibliography

<http://www.cprguidelines.eu/2020>

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The knowledge of basic first aid ensures the first-year student the capacity to intervene with competence in possible situations that could affect him/her directly, the family or the professional community where he/she conducts his/her activities or the community in general. The theoretical and especially practical knowledge acquired throughout the course will set the base for learning, as a first contact with the medical terms for the disciplines in the years to come.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	TBL	15
- practical activities	-	CBL	15
Final evaluation			
- theoretical final exam	Knowledge of theoretical aspects of first aid.	Multiple choice written test	50
- practical final exam	Knowledge and execution of basic first aid maneuvers.	Practical demonstration on simulation manikins	20

Minimal performance standards:

Minimum knowledge should comprise:

- definition and diagnostic criteria for cardiac arrest
- correct execution of first aid techniques in adults, children, and infants
- airway obstruction recognition and first aid maneuvers
- particularities of first aid in special situations
- legal and ethical aspects of first aid
- understanding and using a communication protocol

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Lazăr Alexandra-Elena	Vineri 10-12

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Histology. Cytology			
2.2 Course coordinator: Conf dr Nechifor-Boila Adela-Corina			
2.3 Practical activities coordinator(s):			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Knowledge of the normal structure, ultrastructure and function of various types of tissues and organs in order to establish positive and differential diagnosis - Knowledge and understanding of structural relations between tissues and organs of the human body in order to assimilate fundamental concepts, theories and notions regarding diseases, signs and symptoms that are characteristic to each disease, useful in clinical diagnosis - Assimilation of preliminary knowledge needed for applying various diagnostic protocols - Knowledge of ancillary diagnostic methods and techniques (cytology, histochemistry, immunohistochemistry) useful in establishing positive and differential diagnosis and in assessing prognosis - Using assimilated notions in scientific research. Starting, structuring and developing scientific research activities. Framing these activities within research projects - Developing and implementing new approaches to functional

histology and molecular biology regarding diagnosis in relation to scientific progress
6.2 transversal competencies: - Familiarization with efficient use of information, communication and assisted professional development resources (internet portals, special software, databases, online courses) - Developing a work/project, including identification of objectives, available resources, work conditions and stages, timelines and deadlines - Preparing, editing and presenting a study concerning an up-to-date subject by using various information sources and instruments - Awareness of the need for continuous professional education
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The purpose of Histology is constituted by the study and knowledge of normal tissue and organ structure with the help of optic microscopy in usual stains (hematoxylin and eosin), special stains, immunohistochemistry stains and also in electron microscopy.
7.2 Specific objectives: - Thoroughgoing study of the recognition criteria for various tissues and organs - Learning the methods used in differentiating similar structures - Learning the methods used in differentiating normal from pathological structures - Understanding structure-function relationships, following the principle according to which the morphological features of any structure are strictly dependent on its function

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to histology. Epithelial tissues: General features. Classification. Covering epithelia. Glandular epithelia.	Oral, multimedia presentation and drawings	-	-	2
2	Connective tissues I: General features. Classification. Soft connective tissues: mesenchymal, loose, adipose and reticular connective tissues	Oral, multimedia presentation and drawings	-	-	2
3	Connective tissues II: Bone tissue – structure, ultrastructure. Immature and mature (fibrous, haversian) bone.	Oral, multimedia presentation and drawings	-	-	2
4	Lymphopoietic organs. Immunity: Cells of the immune system. Central lymph organs: thymus. Peripheral lymph organs: lymph node, MALT.	Oral, multimedia presentation and drawings	-	-	2
5	The oral cavity I: Oral mucosa: general structure. Masticatory mucosa: gums (anatomical classification, histological structure and functions), hard palate.	Oral, multimedia presentation and drawings	-	-	2
6	The oral cavity II: Oral mucosa. Lining mucosa: soft palate. Specialized mucosa: tongue, taste bud. Lips. Palatine tonsil.	Oral, multimedia presentation and drawings	-	-	2
7	The oral cavity III: Salivary glands: general structure, classification, minor salivary glands, major salivary glands (parotid, submandibular, sublingual).	Oral, multimedia presentation and drawings	-	-	2
8	The oral cavity IV: The tooth, general structure. Dental pulp: structure and regions, vascularization, innervation, functions, aging.	Oral, multimedia presentation and drawings	-	-	2
9	The oral cavity V: Dentin: microscopic structure, ultrastructure, chemical composition, function, types of dentin, low mineralization areas.	Oral, multimedia presentation and drawings	-	-	2
10	The oral cavity VI: Enamel: general features, structure, chemical composition, low mineralization areas, aging.	Oral, multimedia presentation and drawings	-	-	2

11	The oral cavity VII: Cementum: general features, chemical composition, function, microscopic structure, cementogenesis. Alveolar bone: anatomical and histological structure. Periodontal ligament: general features, structure, vascularization, innervation, functions.	Oral, multimedia presentation and drawings	-	-	2
12	The oral cavity VIII: Tooth development I: tooth bud phase, cap phase, dental follicle. Root formation.	Oral, multimedia presentation and drawings	-	-	2
13	The oral cavity IX: Tooth development II: Dentinogenesis: formation of dentin, odontoblasts (structure and ultrastructure). Amelogenesis: enamel formation, ameloblasts (structure and function), amelogenesis	Oral, multimedia presentation and drawings	-	-	2
14	Endocrine system: Pituitary gland, Thyroid, Parathyroid, Adrenal gland: structure, function.	Oral, multimedia presentation and drawings	-	-	2

Bibliography

Bibliography

1. Power-point presentations.
2. Laura Chinezu, Simona-Tunde Pataki, Adela Nechifor-Boilă, Adrian Năznea, Angela Borda (editor): "Histology of the tissues" Editura University Press Tîrgu-Mureş 2017, 191 pg, ISBN 978-973-169-505-1
3. Michael H. Ross - Histology: A Text and Atlas. With Correlated Cell and Molecular Biology, Ed: Wolters Kluwer/ Lippincott Williams&Wilkins, Eight Edition, 2022.

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction, microscope, histology techniques.	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
2	Epithelia: simple columnar epithelia, stratified squamous non-keratinized epithelium, compound tubuloacinar gland.	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
3	Connective tissue: mesenchymal tissue, loose connective tissue, spongy bone.	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
4	Striated muscle, Cardiovascular system: capillary, Palatine tonsil.	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
5	Oral cavity I: Oral mucosa, Lip.	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
6	Oral cavity II: Tongue, general structure, lingual papillae, Taste bud	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
7	Oral cavity III: Salivary glands: sublingual gland, parotid gland	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
8	Oral cavity IV: Salivary glands: submaxillary (submandibular) gland	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
9	Oral cavity V: Tooth, dried and polished	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2

10	Oral cavity VI: Tooth, decalcified	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
11	Oral cavity VII: Paradontium	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
12	Oral cavity VIII: Tooth development, Dental follicle, Dental Bud	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
13	Endocrine system: Thyroid, Adrenal gland.	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2
14	Slide revision. Evaluation of acquired knowledges.	Practical microscope demonstrations, study by e-learning and demonstrative drawings related to the normal structure of tissue and organs	-	-	2

Bibliography

Bibliography

1. Borda Angela, Eموke Fulop, Gliga Camelia, Loghin Andrada, Marcu Simona, Moldovan Cosmin. Histology Practical Works Guide, Editura University Press, Tîrgu Mureş, 2013
2. Power point presentations

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Assimilating basic notions of tissue and organ cytology and histology as a basis for subsequent understanding of their physiology and pathology
- Assimilating notions regarding histology techniques and microscopic study of tissues and organs
- Acquiring the ability to recognize a tissue, organ or histological stain, and to perform differential diagnosis between various tissues and organs

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-Knowledges about the normal structure Knowledges about the relation between structure, function and pathology	-Assessment of acquired knowledges	20
- practical activities	-Recognition of various tissues and organs under the microscope.	-Assessment of acquired knowledges by examining histological slides	10
Final evaluation			
- theoretical final exam	Knowledges about the normal structure Knowledges about the relation between structure, function and pathology	Examination – written examination consisting of multiple choice questions.	50
- practical final exam	Recognition of various tissues and organs under the microscope. Recognition of staining and ability to the describe the structures	Recognition of tissues and/or organs on histological slides by using optical microscope, description of general structure and of specific structure, differential diagnosis	20

Minimal performance standards:

A grade of minimum 5 both in theory and in practical examination. Basic knowledge of the structures that were studied is required.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Nechifor-Boila Adela-Corina

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Hygiene			
2.2 Course coordinator: Șef I dr Ferencz Jozsef-Loránd			
2.3 Practical activities coordinator(s): Șef I dr Moldovan Elena-Geanina / Șef I dr Ferencz Lorand			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 4		
- examinations: 2		
- other activities: 3		
3.8 Total hours of individual study: 33		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-Room with screen for video projection, wireless network and interactive system
5.2 for practical activities:
-According to the labor protection norms and the guide of good laboratory practices.

6. Specific competencies acquired

6.1 professional competencies:
-To describe the basic concepts, theories specific to environmental and food hygiene
- To assess the risks associated with environmental factors (water, air, habitat) and food
- To describe the methods and measures to prevent the diseases associated with environmental hazards and unsafe food
- To carry out projects and to demonstrate the ability to deliver health information and health education classes on different topics, to promote general wellbeing and healthy behaviors among the general population
6.2 transversal competencies:
Abilities to obtain, critically evaluate and apply health-related information in various contexts
- Skills regarding research methods and their application
- Written and oral communication, public speaking, and presentation

- Collaborative information seeking, evaluation, and decision making - Awareness and observance of professional deontological norms
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: - To understand the impact of environmental and behavioral factors on human health - To promote a preventative and patient centered medical thinking and practice - To develop a comprehensive vision of medicine by raising awareness regarding the environmental and populational aspects of health and disease (hygiene, environmental health, epidemiology, public health)
7.2 Specific objectives: - To apply standard methods for the detection, quantitative and qualitative assessment of environmental factors that influence human health - To conduct basic nutritional evaluation and quantitative and qualitative food assessments - To describe and apply the main strategies and measures for the prevention of diseases associated with environmental factors and food

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in hygiene and environmental health – Importance, definition and objectives of hygiene and environmental health. The WHO definition of health. Health determinants. Environmental risk – Risk assessment, management and communication. Environmental toxicology and epidemiology basics.	Oral and multimedia presentation	-	Chronic bronchitis and emphysema, Skin cancer, Substance abuse, Depression, Respiratory tract infection, Skin infections/infestations, Malaria, Malnutrition, Chronic lung disease, Thyroid disorders, Disorders of calcium and vitamin D metabolism	2
2	Air quality – Normal air composition. The sources and the effects of major air pollutants. Air quality standards and pollution prevention measures.	Oral and multimedia presentation	-	Dizziness, Headache, Tiredness, Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease	2
3	Water quality – Water intake and loss. Water sources and their characteristics. The water self-purification process. Sources of water pollution. Infectious and non-infectious water borne diseases. Drinking water standards. Drinking water treatment and public water supply systems. Wastewater.	Oral and multimedia presentation	-	Cyanosis, Loose stools, Abdominal pain, Vomiting, Electrolyte and water balance	2
4	Urban and built environment – the health impact of housing and urban life. Environmental noise - sources, effects and control of noise pollution. Solid waste management. Exposure to radio-frequency electromagnetic fields (mobile phones)	Oral and multimedia presentation.	-	Dizziness, Headache, Pruritus, Hearing loss, Sleep disturbance, Skin cancer, Depression	2
5	Food quality – Food - health relationship. Macronutrients: proteins, fats, carbohydrates, dietary fibers. Micronutrients: Vitamins, minerals. Sources, daily requirements, deficiencies.	Oral and multimedia presentation	-	Weight gain, Weight loss, Constipation, Malnutrition, Thyroid disorders, Disorders of calcium and vitamin D metabolism, Oral disorders (incl. Caries), Disorders of uric acid metabolism, Disorders of lipid metabolism	2

6	Food quality – Food borne diseases. Physical, chemical and microbiological contamination of food.	Oral and multimedia presentation	-	Headache, Loose stools, Abdominal pain, Vomiting	2
7	Promoting healthy nutrition – Food guides. Food groups: meat, fish, and meat products; eggs, milk, dairy products, grains, grain products, fruits, vegetables, legumes, and nuts. Processed foods. Sugar products, alcoholic and non-alcoholic beverages. Sources and nutritional value.	Oral and multimedia presentation	-	Weight gain, Weight loss, Constipation, Malnutrition, Disorders of calcium and vitamin D metabolism, Oral disorders (incl. Caries)	2
Bibliography Mandatory bibliography: - Tarcea M.: Environmental Hygiene, Course for English students, under edition, 2012 - Nădășan V. Hygiene – Environmental Health for Medical Students. Editura University Press, 2022. Support bibliography: - Frumkin H, Ed. Environmental Health: From Global to Local. San Francisco: Jossey Bass, 2005. Optional - Friis RH. Essentials of Environmental Health. Jones & Bartlett Publishers 2011.					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Physical properties of the air – standards and assessment methods	Oral, multimedia presentation, practical activities	-	Dizziness, Headache, Pruritus, Hearing loss, Sleep disturbance, Allergic disorders	2
2	Air pollution assessment: PM2.5, dusts and gases. Air quality monitoring.	Oral, multimedia presentation, practical activities	-	-Chronic bronchitis and emphysema, Chronic lung disease	2
3	Indoor air pollution. Microbiological contamination of the air and surfaces.	Oral, multimedia presentation, practical activities. CBL1	-	Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease	2
4	Tobacco smoke as an indoor pollutant. The brief advice to quit smoking.	Oral, multimedia presentation, practical activities	-	Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease	2
5	Assessment of natural and artificial lighting conditions, and community noise.	Oral, multimedia presentation, practical activities	-	Tiredness, Headache, Hearing loss, Learning disorders	2
6	Drinking water quality: sensory characteristics, physical and chemical parameters.	Oral, multimedia presentation, practical activities.	-	Loose stools, Abdominal pain, Vomiting, Electrolyte and water balance, Acid based disturbance	2
7	Drinking water chemical quality standards: organic pollutants, nitrites, nitrates. Microbiological analysis of drinking water. Assessment of drinking water treatment efficiency.	Oral, multimedia presentation, practical activities. CBL2	-	Cyanosis, Loose stools, Abdominal pain, Vomiting, Electrolyte and water balance, Acid-based disturbance	2
8	Nutritional assessment: BMI, percentage of body fat. Assessment of caloric and nutrient intake.	Oral, multimedia presentation, practical activities	-	Weight gain, Weight loss, Constipation, Malnutrition, Thyroid disorders, Disorders of calcium and vitamin D metabolism, Oral disorders (incl. Caries), Disorders of uric acid metabolism, Disorders of lipid metabolism	2
9	Assessment of animal foods quality: meat, milk, eggs.	Oral, multimedia presentation, practical activities	-	Loose stools, Vomiting, Abdominal pain	2

10	Assessment of plant foods quality: fruits and vegetables. Assessment of canned food products, fatty foods, beverages.	Oral, multimedia presentation, practical activities	-	Loose stools, Vomiting, Abdominal pain	2
11	Parasitological and microbiological analysis of food. The HACCP system.	Oral, multimedia presentation, practical activities.	-	Loose stools, Vomiting, Abdominal pain	2
12	Nonionizing radiation – Sources, health effects and risks of exposure to UV radiation. Assessing the evidence regarding the effects of radio frequency radiation and microwaves.	Oral, multimedia presentation, practical activities	-	Visual impairment, Headache, Vomiting, Burns, Skin cancer	2
13	Ionizing radiation – Basic rules for radioprotection. Radiation monitoring. Estimating general and medical irradiation.	Oral, multimedia presentation, practical activities	-	Skin cancer, Bone malignancy, Childhood tumours, Immunodeficiency, Malformations of cardiovascular system, Malformations of lip/palate, Malformations of spine/CNS	2
14	Child and adolescent hygiene – Personal and school hygiene. Prevention of risk behaviors in children and adolescents: smoking, alcohol, drugs. Recovery	Oral, multimedia presentation, practical activities	-	Tiredness, Normal child development, Child abuse, Substance abuse, Learning disorders, Disorders of puberty, Sexually transmitted disease, Hair disorders, Infectious diseases of childhood	2
Bibliography - Ábrám Z., Tarcea M., Finta H. et al – Hygiene Practical laboratory Guide, under edition, UMF Târgu Mureș, 2012 - Health risk assessment of air pollution – general principles. Copenhagen: WHO Regional Office for Europe; 2016.					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- To evaluate, analyze and interpret environmental (water, air, radiation, noise, soil, waste) and behavioral risk factors - To develop individual and community programs for the prevention of diseases associated with environmental and behavioral factors - To develop the skills needed to conduct health education activities and promote health at the individual and community level

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Assessment of knowledge and ability to apply it individually and in a team	Referat	10
- practical activities	Assessment of knowledge and ability to apply it individually and in a team	CBL	20
Final evaluation			
- theoretical final exam	Assessment of knowledge gained during the course	Multiple choice test	50
- practical final exam	Assessment of knowledge gained during the practical activities	Multiple choice test	20
Minimal performance standards: To describe the determinants of health and their influence on the human organism, the optimal parameters of air and water quality. To develop and implement strategies and measures to prevent air and waterborne diseases, radiation and noise associated illnesses. To describe and promote the principles of healthy nutrition and food safety. To describe the most important behavioral risk factors in children and adolescents and promote health-promoting behaviors. - Minimum requirements for admission to the final theoretical exam: course attendance is mandatory. Students missing more than 20% of the course will not be admitted to the final exam. Students undertake a multiple choice test that evaluates knowledge taught during the course. A grade of 5 is required to pass the test.			

- Minimum requirements for admission to the final practical exam: practical activities attendance is mandatory. Students missing more than 20% of the practical activities will not be admitted to the final exam. Students undertake a multiple choice test that evaluates knowledge taught during the practical activities. A grade of 5 is required to pass the test.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Ferencz Jozsef-Loránd

MARTI 16-17

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical terminology			
2.2 Course coordinator: Conf dr Varga Andreea			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 0		
- examinations: 2		
- other activities: 5		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: not applicable
4.2 competency: not applicable

5. Conditions

5.1 for lectures: not applicable
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: - Learning to pronounce, spell, and define medical terms used in today's health care settings - Learning to combine prefixes, suffixes, and word roots to create complex medical terms - Learning to understand medical terms by breaking them into their component parts and learning the meaning of the parts - Learning to construct medical terms from component parts to express given definitions
6.2 transversal competencies: - Familiarizing with the specialized vocabulary used by dental medicine and health care practitioners - Developing a repertoire of useful medical terms - Understanding and developing an accurate communication between practitioners of the life sciences

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Providing knowledge of basic medical terminology
7.2 Specific objectives: - providing principles used to create medical terms - providing medical vocabulary including anatomy, physiology, systems, diagnostic testing and treatments - providing knowledge to correctly pronounce medical terms - providing knowledge to define common medical terms - providing knowledge to relate common medical terms to human anatomy and physiology, conditions, diagnostic tests and examinations, and treatments - providing knowledge to identify the medical terminology in medical record reports

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Concepts of Medical Terminology. Word structures. Medical Word Elements - Word Roots, Combining Forms. Suffixes and Prefixes. Singular and Plural Endings. Adjectives. Look-Alike Sound-Alike. Medical, Dental Professions Dictionary Use. Abbreviations.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1
2	Body Structure. Levels of Organization. Directional and Positional Terms. Body Cavities, Regions, and Quadrants. Medical Imaging Terms. General Laboratory Terms. Abbreviations.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1
3	The Integumentary System. Integumentary System Word Parts. Anatomy and Physiology. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations.	TBL/PBL Audio materials usage.	Learning Exercises.	not applicable	1
4	The Musculoskeletal System. Common Word Parts Associated with the Musculoskeletal System. Anatomy and Physiology of the Skeletal System. Anatomy and Physiology of the Muscular System. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1
5	The Nervous System. The Special Senses. Nervous System Word Parts. Anatomy and Physiology. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations. Word Parts Associated with Special Senses. Anatomy and Physiology of the Eye, Ear, Taste, Smell, and Touch. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1
6	The Respiratory System. Respiratory System word parts. Anatomy and Physiology. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1
7	The Cardiovascular System. Anatomy and Physiology. Functions of the Cardiovascular System. Structures of the Cardiovascular System. Medical Specialties Related to the Cardiovascular System. Pathology of the Cardiovascular System. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1

8	Hematology. The Lymphatic and Immune Systems. Word Parts. Anatomy and Physiology. Medical Specialties Related to Blood, Lymphatic and Immune Systems. Functions and Structures of the Blood, Lymphatic, and Immune Systems. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises	not applicable	1
9	The Digestive System. Digestive System Word Parts. Anatomy and Physiology. Medical Specialties Related to the Digestive System. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1
10	The Urinary System. Urinary System Word Parts. Anatomy and Physiology. Functions and Structures of the Urinary System. The Excretion of Urine. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations.	TBL/PBL Audio materials usage.	Learning Exercises	not applicable	1
11	The Endocrine System. Endocrine System Word Parts. Anatomy and Physiology. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1
12	The Male Reproductive System. The Female Reproductive System. Male. Female Reproductive System Word Parts. Anatomy and Physiology. Conditions. Diagnostic Tests and Examinations. Treatments. Abbreviations.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1
13	Review. Matching. Identification. Word-Building Challenge. Extension Activities.	Interactive teaching. PowerPoint presentation. Audio materials usage.	Learning Exercises.	not applicable	1
14	Medical Terminology Colloquium	written test.	not applicable	not applicable	1
Bibliography 1. MEDICAL TERMINOLOGY, CONNECTING THROUGH LANGUAGE. Paradigm Publishing. Ebony S. Lawrence, 2017 2. MEDICAL TERMINOLOGY SYSTEMS: A BODY SYSTEMS APPROACH. 8th Edition, Barbara A. Gyls, Mary Ellen Wedding, 2017 3. MEDICAL TERMINOLOGY FOR HEALTH PROFESSIONS, 7th Edition Ann Ehrlich, Carol L. Schroeder, DVD-ROM, 2013					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Familiarization with the specialized vocabulary used by dental medicine and health care practitioners
- Possession of a repertoire of useful medical terms
- Understanding and developing an accurate communication between practitioners of the life sciences

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL (2x10%) Active participation during lectures (10%)	Active participation	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	- knowledge of the bibliographic material - knowledge to define common medical terms - knowledge to identify medical terminology in medical record reports	- written examination	70
- practical final exam	not applicable	not applicable	0
Minimal performance standards:			
- knowledge of specialized terminology and ability to use this terminology properly			
- minimum grade of 5.0 obtained at the theoretical examination			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Varga Andreea	Conf.univ.dr.Andreea Varga: 30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Ethics and academic integrity			
2.2 Course coordinator: Șef I dr Sălcudean Andreea			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
- theoretical and practical aspects specific to the debated issues
- developing the capacity for analysis and synthesis, using terms specific to the topic discussed
6.2 transversal competencies:
- be aware of the importance of academic ethics and integrity
- identify forms of lack of academic honesty
- know the consequences and sanctions of plagiarism or other forms of dishonesty
- identify potential social effects of lack of academic integrity

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Individual development of knowledge regarding ethics and academic integrity
7.2 Specific objectives: - presentation of the fundamental concepts specific to the field of ethics and academic integrity; - knowledge and understanding of academic responsibilities and rights - promoting ethical behaviors and discouraging practices that lack integrity among students - identifying forms of lack of academic honesty - awareness of the consequences and sanctions of plagiarism or other forms of dishonesty - awareness of the social effects of lack of academic integrity

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Ethics and academic integrity - terms and definitions, responsibilities and academic rights	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
2	Intellectual property and copyright	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
3	Lack of academic integrity, examples of dishonest behavior	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
4	Plagiarism. Forms of plagiarism	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
5	Identification of plagiarism. Consequences and sanctions of plagiarism	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
6	Other academic dishonesty	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2
7	The social effects of lack of academic integrity	lecture, problematization; interactive course supported by powerpoint presentation	-	not correlated with ICS	2

Bibliography

1. Fish, R., Hura, G. 2013 - Students' perceptions of plagiarism, în Journal of the Scholarship of Teaching and Learning, 13 (5), pp. 33 – 45.
 2. Ives, B. et al. 2016 - Patterns and predictors of academic dishonesty in Romanian university students, în Higher Education, 74 (5), pp. 815 – 831.
 3. McCabe, D.L. 2005 - It takes a village: Academic dishonesty and educational opportunity, în Liberal Education, 91, pp. 26–32.
 4. Park, C. 2003 - In Other (People's) Words: plagiarism by university students-literature and lessons, în Assessment & Evaluation in Higher Education, 28 (5), pp. 471 – 488.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The approached topic is updated, taking into account the social or professional context of the future graduate.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			

- lecture	- Conceptual and practical learning on ethics and academic integrity - Knowledge of discipline-specific terminology	TBL and tests (10% TBL + 20% ongoing tests)	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	- Conceptual and practical learning on ethics and academic integrity - Knowledge of discipline-specific terminology	Test	70
- practical final exam	-	-	0
Minimal performance standards: Fulfillment of all school obligations according to the regulations in force. Acquiring knowledge about ethics and academic integrity.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Sălcudean Andreea

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Anatomy and embriology			
2.2 Course coordinator: Șef I dr Nechifor-Boila Ioan-Alin			
2.3 Practical activities coordinator(s): Șef I dr Nechifor-Boila Ioan-Alin			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 0		
- examinations: 8		
- other activities: 0		
3.8 Total hours of individual study: 30		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular: Not applicable
4.2 competency: basic knowledge in biology, a fair command of the English language, basic understanding and communication skills

5. Conditions

5.1 for lectures: A blackboard of min. 5 m2, colored chalks, projecting device, inclusive an adequate software for presenting static and motion pictures
5.2 for practical activities: Anatomical specimens, human corpse

6. Specific competencies acquired

6.1 professional competencies: -Describing and interpreting fundamental notions of the morphology and functioning of the dentomaxillary apparatus, integration of these in concepts/situations meant to apply solutions with the aim of formulating hypotheses and to correctly interpret signs, symptoms and paraclinical modifications for building a morphological and a clinical diagnosis, developing of novel professional competences in the general and the specific dentistry healthcare.

6.2 transversal competencies: -Acquiring skills and techniques which enable identification of objectives to be fulfilled, of resources available, of the conditions to match, of the work phases, of the deadlines and afferent risks according to a minimal standard: implementation of projects under coordination for solving certain problems specific of the field
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The student becomes acquainted with the principles of organization, development and functions of the dentomaxillary apparatus generally, and with the specific human aspects particularly. He becomes able to observe and to anticipate the topographic relations between the components of the human dentomaxillary apparatus and to interpret them in a functional context. The student will gain practical and detailed knowledge about the development of the dentomaxillary apparatus and the oral cavity, parts of the body that yet are to be studied which represent the area of their medical activity. The student will comprehend the interrelations between the various components and will be able to make distinction their variations falling within the normal limits versus the pathological phenomena and will also acquire the ability to communicate about his the observations and share his experience with others.
7.2 Specific objectives: Learning the functional anatomy of the dentomaxillary apparatus, its components, the phylogenesis and ontogenesis of the face and of the neck, of the regional anatomy, radiologic anatomy, anthropometry and biochronology. From a functional point of view, emphasis is set on the biomechanics of the motions in the TMJ, of the mastication and of the deglutition. The student will be able for a theoretical and a practical orientation in the oral cavity, especially in the entourage of the dentomaxillary arches. He will develop a vision about the shape and content of the oral cavity with a clear notion of the normal within, both morphologically and functionally, which in turn will serve as a reference when the task will be the restoration of normal relations through his therapeutical activity. The student will also develop an appropriate and detailed vocabulary used in all of the branches of the science he has chosen. The acquired knowledge will serve as a basis for the further studies and the specific sciences in dentistry.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	General neuroanatomy. The functional anatomy of the spinal cord.	oral presentation PPT	NA	Malformations of the cardiovascular system. Malformations of the lip and palate. Malformations of the neuraxis. CCT. Degenerative disorders of the neuraxis HIC	2
2	The organization of the ascending systems. The thalamus. The organization of the efferent descending systems. The basal nuclei. The cerebellum	oral presentation PPT	NA	Malformations of the cardiovascular system. Malformations of the lip and palate. Malformations of the neuraxis. CCT. Degenerative disorders of the neuraxis HIC	2
3	The cranial nerves and their nuclei. The anatomy of the trigeminal system.	oral presentation PPT	NA	Disorders of the cranial nerves	2
4	The organization of sensorial systems. The metathalamus.	oral presentation PPT	NA	Impaired vision. Blindness. Deafness	2
5	The cerebral cortex and cortical fields. The limbic system	oral presentation, PPT	NA	Aggression. Violence. Psychosexual disorders Depression. Cerebrovascular pathologies. HIC	2
6	The organization of the autonomic nervous system. The hypothalamus	oral presentation, PPT	NA	Sleep disorders. Psychosexual disorders	2
7	Application of the knowledge on clinical cases	revision	NA	NA	2

8	The functional anatomy of the pharynx and larynx	oral presentation, PPT	NA	Disfagia. Feeding disorders. Cardiac arrest	2
9	The anatomy of the nose, paranasal cavities. Development of the skull base	oral presentation, PPT	NA	Infections of the airways.	2
10	The orbital region and its content. The lacrimal apparatus Development of the skull vault and its anomalies	oral presentation, PPT	NA	Visual impairment. Blindness. Red eye. HIC. Degenerative disorders of the neuraxis. Diabetes	2
11	The anatomy of the temporal bone. The tympanic cavity	oral presentation, PPT	NA	Deafness	2
12	The descriptive anatomy of the TMJ. The infra temporal and pterygopalatine regions	oral presentation, PPT	NA	Degenerative disorders of the neuraxis	2
13	Cephalo-cervical and cervico-thoracic vasculo-nervous passageways	oral presentation, PPT	NA	Trauma of the NS	2
14	Application of the knowledge on clinical cases	revision	NA	NA	2

Bibliography

1. Ioan Alin Nechifor-Boila, Zoltan Lorinczi, Klara Branzaniuc - Neuroanatomy.
2. Denes Lorand, Papp Zsuzsanna, Topographical Anatomy of the Head and Neck.
3. Gray's Anatomy for students 2nd edition

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The spinal cord, the brainstem, the fourth ventricle. The cerebellum and the diencephalon.	Ppt presentation, lab specimens	NA	NA	3
2	The basal nuclei and the third ventricle. The the lobes and the surface of the cerebral cortex	Ppt presentation, lab specimens	NA	NA	3
3	The interhemispheric matter and the lateral ventricles. The sectional anatomy of the brain	Ppt presentation, lab specimens	NA	NA	3
4	SEMINAR: The central nervous system	Ppt presentation, lab specimens	NA	NA	3
5	The muscles of the neck. The suboccipital region	Ppt presentation, lab specimens	NA	NA	3
6	The arteries of the neck. The veins and lymphatics of the neck. The omotracheal region. The cervical plexus. The sterno-cleido-mastoid region.	Ppt presentation, lab specimens	NA	NA	3
7	The cranial nerves I-XII	Ppt presentation, lab specimens	NA	NA	3
8	The lateral cervical region. The region of the carotic triangle. The prevertebral region and the lesser supraclavicular fossa. The submental region.	Ppt presentation, lab specimens	NA	NA	3
9	Descriptive anatomy of the pharynx, larynx and and cervical esophagus. The tongue. SEMINAR: test on the cranial nerves	Ppt presentation, lab specimens	NA	NA	3
10	Muscles of the head, arteries, veins and lymphatics of the head. The submandibular region. The oral and the mental regions	Ppt presentation, lab specimens	NA	NA	3
11	The nasal, the palpebral and zygomatic regions. The retrocapsular compartment of the orbit. The vascular supply of the brain. The epicranial regions. The meningeal sheaths	Ppt presentation, lab specimens	NA	NA	3
12	The region of the inner skull base. The sublingual region. The inner ear.	Ppt presentation, lab specimens	NA	NA	3
13	The topographic anatomy of the TMJ. Masticatory muscles and their relations to the TMJ. The motions of the mandible.	Ppt presentation, lab specimens	NA	NA	3

14	The relations of the maxillary nerve within the pterygopalatine region. . The relations of the mandibular nerve within the infratemporal region. The peripharyngeal spaces.	Ppt presentation, lab specimens	NA	NA	3
Bibliography 1.Ioan Alin Nechifor-Boila, Zoltan Lorinczi, Klara Branzaniuc - Neuroanatomy. 2.Denes Lorand, Papp Zsuzsanna, Topographical Anatomy of the Head and Neck. 3. Gray's Anatomy for students, 2nd edition					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Anatomy creates the basis of fundamental knowledge in medicine and is essential for understanding further disciplines

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Seminar nervi cranieni	Seminar	15
- practical activities	Seminar SNC	seminar	15
Final evaluation			
- theoretical final exam	Examen	Examen grila	50
- practical final exam	Examen practic	Examen	20
Minimal performance standards: Nu este cazul			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Nechifor-Boila Ioan-Alin	Luni ora 11, Disciplina de Anatomie

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Biochemistry of oral cavity			
2.2 Course coordinator: Prof dr Tero-Vescan Amelia			
2.3 Practical activities coordinator(s): Conf Dr Eniko Nemes Nagy			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 11		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 8		
- tutorial activities: 5		
- examinations: 5		
- other activities: 8		
3.8 Total hours of individual study: 19		
3.9 Total hours: 47		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Corelarea stării de boală cu procesele biochimice la nivel molecular implicate în dezechilibrele care pot afecta sănătatea țesuturilor dentare Conduita terapeutică conservativă a structurilor odontalo-parodontale în concordanță cu aspectele biochimice care pot influența structurile sus numite Diagnosticul și terapia interceptivă a anomaliilor aparatului dentomaxilar ținând cont de eventualele deficite enzimatic și vitaminice în dezvoltarea aparatului dento-maxilar. Restaurarea protetică a arcadelor dentare folosind materialele

dentare cele mai potrivite in corelație cu particularitățile biochimice individuale ale fiecărui pacient
6.2 transversal competencies: Identificarea obiectivelor de realizat, a resurselor disponibile, condițiilor de finalizare a acestora, etapelor de lucru, timpilor de lucru, termenelor de realizare aferente și riscurilor aferente Identificarea rolurilor și responsabilităților într-o echipă pluridisciplinară în care cunoștințele legate de metabolismul biochimic pot da informații cruciale asupra tratamentului și tehnicilor aplicate și aplicarea de tehnici de relaționare și munca eficientă în cadrul echipei și în relație cu pacientul Utilizarea eficientă a surselor informationale si a resurselor de comunicare si formare profesionala asistata
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Obiectivul disciplinei este formarea unei culturi generale medicale a studenților. De asemenea se urmărește prezentarea principalelor căi metabolice din celule vii, cu specificări legate de metabolismul celulelor și țesuturilor dentare și peridentare. Un alt obiectiv general al acestui curs este prezentarea metabolismului bacterian în stânsă legătură cu procesul carios.
7.2 Specific objectives: Cunoașterea particularităților metabolismului biochimic la nivelul cavității orale. Cunoașterea proceselor degradative în timpul formării cariilor dentare

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Carbohydrates: monosaccharides: isomerism, derivatives. Disaccharides. Polysaccharides and storage forms. Carbohydrate digestion. Glycoproteins, glycosaminoglycans, proteoglycans. Glycolysis and gluconeogenesis. Metabolism of fructose and galactose	oral presentation	-	-	2
2	Other glucose metabolism pathways: the pentose phosphate cycle, the glucuronic acid pathway. Glycogen metabolism. Glycogenolysis.	oral presentation	-	-	2
3	Lipid metabolism: representatives. Beta-oxidation of fatty acids: mechanism, energy balance. De novo biosynthesis of fatty acids. Elongation of the chain. Metabolism of eicosanoids.	oral presentation	-	-	2
4	Triglyceride metabolism. Phospholipid metabolism. Metabolism of sphingolipids. Digestion and transport of lipids in the body.	oral presentation	-	-	2
5	Metabolism of ketone bodies Cholesterol metabolism. Cholesterol transformation pathways in the body.	oral presentation	-	-	2
6	Nucleotide metabolism: regulation, role, pathology. Heme metabolism. Amino acid metabolism and the ureogenetic cycle	oral presentation	-	-	2
7	Metabolism of nucleic acids: replication, transcription and translation. The formation of dental caries. Dental plaque. Saliva composition	oral presentation	-	-	2

Bibliography

David L Nelson, Michael M Cox - Lehninger Principles of Biochemistry, 8th Edition
 Jeremy M. Berg, Lubert Stryer, John Tymoczko, Gregory Gatto - Biochemistry 9th Edition
 Thomas M. Devlin - Textbook of Biochemistry with Clinical Correlations, 6th Edition
 Tero-Vescan A, Ősz BE, Imre S – Principii de Biochimie Medicală, Ed University Press Tîrgu Mureș, 2018

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The influence of substrate concentration on the speed of the enzymatic reaction. The influence of pH, temperature and some ions on the speed of the enzymatic reaction	practical determination	-	-	2
2	Determination of amylase activity	practical determination	-	-	2
3	Determination of transaminase activity	practical determination	-	-	2
4	Determination of serum triglyceride. Determination of beta-lipoproteins	practical determination	-	-	2
5	Determination of total and HDL cholesterol	practical determination	-	-	2
6	Determination of creatinine by Jaffe method. Determination of serum urea	practical determination	-	-	2
7	Determination of uric acid	practical determination	-	-	2

Bibliography

Oșan A, Nagy E, Tero-Vescan A - Biochimie practică, Ed University Press Tîrgu Mureș, 2008

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Cunoașterea aspectelor generale privind structura biomoleculelor în relație cu rolul lor biologic. Cunoașterea căilor metabolice și rolul lor în dezvoltarea unor patologii

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	MCQ	10
- practical activities	quizzes and lab reports	MCQ	20
Final evaluation			
- theoretical final exam	multiple choice quiz	test	70
- practical final exam	-	-	0
Minimal performance standards:			
Knowledge of the structures of carbohydrates, lipids and amino acids and the main metabolic pathways			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Tero-Vescan Amelia

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Teeth and dental arches morphology			
2.2 Course coordinator: Prof dr Székely Melinda-Gyöngyi			
2.3 Practical activities coordinator(s): Conf. dr. Kerekes-Máthé Bernadette, Șef lucrări dr. Borș Andreea			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 2	3.3 practical activities: 6
3.4 Total hours in curriculum: 112	3.5 lectures: 28	3.6 practical activities: 84
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 0		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 6		
- tutorial activities: 6		
- examinations: 6		
- other activities: 0		
3.8 Total hours of individual study: 38		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: Curricular reform
4.2 competency: English language examination certificate (B2 or C1)

5. Conditions

5.1 for lectures: Multimedia equipment
5.2 for practical activities: Laboratory for dental technicians, specific tables for practical work, instruments for model plaster and wax carving, dental materials (model plaster, dental stone, wax, acrylic models) for on-site practical work. Multimedia equipment for online practical work.

6. Specific competencies acquired

6.1 professional competencies: - Understanding the terms used to describe the morphology of human primary and permanent dentition. - The discipline provides dental students with basic knowledge required when answering dental anatomy questions on the examinations. - Practical work by the plaster and wax modeling of teeth have the value of developing skills to accurately visualize and reproduce the subtle outline of each tooth.

6.2 transversal competencies: - Acquisition of skills and abilities necessary for dental practice. - This discipline provides an introduction in dentistry through the knowledge regarding the functional morphology of teeth and dental arches, and with respect to masticatory function. - All clinical disciplines in dental medicine are based on the terminology learned throughout this preclinical discipline.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: To know the morphology (anatomy) of teeth and dental arches which will be applied in conservative dental restorations (C2) prosthetic restorations (C4) and are necessary in diagnostics and treatments of dental anomalies (C3).
7.2 Specific objectives: - To learn the human tooth morphology, the functional connection between the teeth and dental arches in masticatory function. - To know the shape and function of all components of the stomatognathic system as an interrelation between form and function. - To reproduce each tooth morphology accurately through model plaster and wax modeling.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The dentition. Terminology used for describing tooth morphology: crowns and roots.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
2	Primary functional morphology of permanent anterior teeth, class traits (common morphological features). Individual morphological characteristics of the maxillary first incisor.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
3	Individual morphological characteristics of the upper lateral incisor and the lower incisors.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
4	Tooth identification (numbering) systems.	Test + multimedia	Evaluation (5% of final grade)	-	2
5	Individual morphological characteristics of the upper and lower canines. Traits to distinguish maxillary from mandibular permanent anterior teeth.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
6	Primary functional morphology of permanent posterior teeth, class traits.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
7	Individual morphological characteristics of the upper and lower premolars.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
8	Individual morphological characteristics of the upper molars.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
9	Individual morphological characteristics of the lower molars.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
10	Traits to compare and to distinguish all permanent teeth: maxillary and mandibular teeth; anterior and posterior teeth.	Test + multimedia	Evaluation (5% of final grade)	-	2
11	Morphology of primary (deciduous) teeth. Class and type traits (common and different) of primary teeth compared to permanent teeth.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2

12	Dental arches: form, dimension, axial position, inter arch relationship of teeth (basic terms).	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
13	The teeth role in mastication: correlations between primary functional tooth morphology and chewing (basic terms).	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
14	Secondary functional morphology of teeth and dental arches (basic terms). Recapitulation.	Oral and power point presentation, multimedia.	Course of 2 hours in English language.	-	2
Bibliography Bibliography References (compulsory): 1. 'Morphology of teeth and dental arches' on BlackBoard and E-learning Platform, Website of the UMFST G.E. Palade of Tg.Mures 2. Scheid R. C., Weiss Gabriela: Woelfel's Dental Anatomy. 8th edition. Lippincott Williams&Wilkins, Philadelphia, 2012. 3. Székely M., Borş A.: Morphology of Teeth and Dental Arches – Course for Students. University Press, UMFST Tg.Mureş, 2019. References (facultative): 1. Bereşescu G.: Dinţii umani permanenţi. Editura University Press, Tîrgu-Mureş, 2011. 4. Székely M.: A fogak és fogívek funkcionális morfológiája – edíția a doua. Editura University Press, Tîrgu-Mureş, 2009.					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of the discipline and the dental laboratories. Inner rules of the discipline and also rules of the workplace safety are presented.	Oral presentation and printed documents.	English language used, students sign to confirm that they were informed.	-	6
2	Morphology of anterior teeth: individual modeling of the upper first incisor from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
3	Morphology of anterior teeth: individual modeling of the upper second incisor from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
4	Morphology of anterior teeth: individual modeling of the lower first incisor from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
5	Morphology of anterior teeth: individual modeling of the upper canine from model plaster on a scale of 1/2. Knowledge assessment.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
6	Morphology of posterior teeth: individual modeling of the upper first premolar from model plaster on a scale of	Practical demonstration performed by the dental technicians, presentation of intermediary phases	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the	-	6

	1/2.	and models.	tooth and receive grade for the performed individual modeling, Laboratory Report.		
7	Morphology of posterior teeth: individual modeling of the lower second premolar from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
8	Morphology of posterior teeth: individual modeling of the upper first molar from model plaster on a scale of 1/2.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
9	Morphology of posterior teeth: individual modeling of the lower first molar from model plaster on a scale of 1/2. Knowledge assessment.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
10	Morphology of anterior teeth: individual modeling from wax.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
11	Morphology of posterior teeth: individual modeling of premolar teeth from wax.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
12	Morphology of posterior teeth: individual modeling of upper molar teeth from wax.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
13	Morphology of posterior teeth: individual modeling of lower molar teeth from wax.	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6
14	Modeling a tooth for a higher grade or recovery of an absence. Recapitulation	Practical demonstration performed by the dental technicians, presentation of intermediary phases and models.	Students work under the supervision of university staff and dental technicians. Students present their notes and schematic drawing of the tooth and receive grade for the performed individual modeling, Laboratory Report.	-	6

Bibliography

Bibliography

Bratu D., Leretter M.A., Colojoară Carmen, Romînu M.: Dinții umani permanenți – morfologie, desen și modelaj. Editura Signata, Timișoara, 1991.

9. Correlations between the contents of the discipline and the expectations of the community

representatives, professional associations and representative employers in the domain

1. This discipline is primarily intended as a guide for dental students to master the details of tooth morphology which will be useful in the dental office in conservative and prosthodontic treatments.
2. The future activity of the dentist is based on the theoretical and practical knowledge and skills acquired in this discipline.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Test based theoretical knowledge.	Grade obtained on test individually.	10
- practical activities	Practical knowledge related to theoretical knowledge.	Laboratory Report (grades for practical works, and also for the complete laboratory report and presence) and tests through summative evaluation.	20
Final evaluation			
- theoretical final exam	Theoretical knowledge in the domain of courses.	Theoretical exam by test: multiple choice + short redactional questions.	40
- practical final exam	Practical knowledge and skills joint with theory.	Practical exam including response to a question.	30
Minimal performance standards: Minimal performance standards: - Necessary knowledge for achieving the passing grade 5 (five) for every evaluation criteria. The presence for the practical exam is conditioned by the minimum participation at 80% of the laboratory sessions and the achievement of the schedule of practical activities during the semester and also notes and schematic drawing of teeth are required. - Attendance on practical work is compulsory, absence must be recuperated. No more than 20% of absence from practical work and courses are accepted. Attendance on TBL course is compulsory. - Knowledge required for achieving the minimum grade 5 for the practical exam is that the student performs model plaster or wax modeling respecting all morphological details at a minimal level. Knowledge required for achieving the minimum grade 5 for the theoretical exam: the student has to mark half of all the correct answers on the multiple choice test.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Székely Melinda-Gyöngyi	After every course 30 minutes (1hour/week).

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Romanian language			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Asist Ciortea Eduard			
2.4 Year of study: I	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture:	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 3		
- tutorial activities: 3		
- examinations: 3		
- other activities: 3		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
Videoproiector

6. Specific competencies acquired

6.1 professional competencies: Studentul va prezenta, la nivel începător, următoarele abilități: -citirea corectă și fluentă, precum și înțelegerea conținutului și ideilor generale ale unui text simplu -înțelegerea mesajelor receptate pe cale auditivă -vorbirea cu respectarea regulilor gramaticale și de pronunție -cunoașterea și utilizarea corectă a unui vocabular de bază
6.2 transversal competencies: Utilizarea limbii române ca mijloc de comunicare cu alți vorbitori ai acelei limbi, în situații generale.
6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Cunoașterea limbii române la nivel mediu pentru a putea înțelege mesajul unui text scris sau audiat.
7.2 Specific objectives: La finalul cursului, studentul va prezenta abilități de comunicare, formulare de întrebări și răspunsuri pe teme precum: prezentare, casa, ocupație, interese, familie.

8.1 Content of seminar, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Vestimentație	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
2	Televiziune și presă scrisă	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
3	Ce știi să faci?	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
4	Sporturi și sportivi	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
5	Sărbători și aniversări	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
6	Stil de viață	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
7	Minte sănătoasă în corp sănătos	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4

Bibliography

1. Bălănescu, Olga, Limba română pentru străini, Editura Ariadna, București, 2006
2. Dafinoiu, CV, Pascale, LE, Limba română - manual pentru studenți străini, Ed. Univ. București, 2015
- Hedeșan, Otilia (coordonator), Jebelean, Elena, Leucutia Florentina, Musat, Nicoleta, Percec, Dana, Popa, Corina Bun venit în România! Manual de limba română și de orientare culturală, Imprimeria MIRTON, Timișoara, 2008
3. Kohn, Daniela, Puls. Manual de limba română pentru străini. Curs A1-A2, Polirom, Iași, 2009
4. Geană, Ionuț, Limba română pentru străini, Editura Univers, București, 2014
5. Mandelbrojt-Sweeney, M., Limba engleză pentru medici și asistente, Polirom, București, 2006
6. Platon, Elena, Sonea, Ioana, Vilcu, Dina Manual de limba română ca limbă străină (RLS), Casa Cărții de Știință, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, răspuns la întrebări, dialog	30
Final evaluation			
- theoretical final exam	Abilitatea de a înțelege și completa exerciții de multiple choice, potrivire, folosirea corectă a numărului, articolului verbelor învățate	Test scris care cuprinde exerciții de vocabular și gramatică	40
- practical final exam	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, răspuns la întrebări, dialog	30

Minimal performance standards:

Minimal performance standards:

Să se poată prezenta, să răspundă la întrebări legate de familie, casă, interese, timp, să poată formula întrebări și cere informații folosind un vocabular de bază, o pronunție clară și fără greșeli mari la nivelul organizării discursului și al folosirii structurilor gramaticale necesare comunicării.

11. Appointment timetable (for students)

Asist. Ciortea Eduard	30 de minute după fiecare activitate practică

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Allergology and clinical immunology			
2.2 Course coordinator: Șef I dr Șular Floredana-Laura			
2.3 Practical activities coordinator(s): Lecturer Șular Floredana-Laura, Assistant professor Mănescu Ion-Bogdan			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 2		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 47		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular: N/A
4.2 competency: N/A

5. Conditions

5.1 for lectures: Lecture hall with appropriate capacity and video projection equipment
5.2 for practical activities: Laboratory equipment and materials. Access to medical data base and laboratory test reports.

6. Specific competencies acquired

6.1 professional competencies: Understanding how the normal and pathological immune systems works. Interpretation of the laboratory results acquired during the assessment of the specific and non-specific cellular and humoral immune systems. Modern methods of laboratory diagnosis, their qualities and limitations.
6.2 transversal competencies: The Allergology and Immunology discipline helps the student to integrate prior notions of physiology/ pathophysiology and internal medicine, thus establishing useful correlations at the patient's bedside, and to recommend and interpret laboratory investigations in the context of clinical data. Identifying the state of ill-health and accurately diagnosing the condition(s). Preparing and applying an adequate treatment plan for the identified condition(s). Assessing correctly the risk of disease or the context of the occurrence of the individual / collective disease,

followed by the selection and implementation of adequate prophylactic measures. Approaching the health/ill issues from the point of view of the characteristics of the community, in direct relation with the social. economic and / or cultural conditions of the respective community. Initialing and performing specific scientific research and/or training activity in the respective domain of competence. Performing efficiently and skillfully the managerial tasks required by certain professional positions. - - - Identifying the objectives to be fulfilled, the available resources, the terms of completion, the work stages, the timeframe, the related deadlines and the inherent risks. Identifying the roles and responsibilities in a pluridisciplinary team and applying efficient work and relation techniques within the team and in the relation with patients. Using the information and communication resources efficiently as well as those for assisted professional development (web portals, specialized software, application data base, on line courses etc.) both in Romanian and in an international language.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The overall objective is for the students to develop a logical way of thinking when requesting laboratory tests and interpreting laboratory results.
7.2 Specific objectives: Highlight the pathogenic mechanisms that cause changes of the laboratory parameters in various diseases, diagnostic value of the laboratory tests, the correlations that can be established between the clinical context and the results provided by the laboratory.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Non-specific, cellular and humoral immune defense of the organism.	Lecture+ .ppt presentation	Basic immunological terminology	Immunization, Immunodeficiency	2
2	Specific immune defense of the organism. Antigens and antibodies. Immune cells and the lymphoid system. Adaptive primary and secondary immune responses.	Lecture+ .ppt presentation	The main assays used for the evaluation of the adaptive immune system will be introduced.	Myeloproliferative/ lymphoproliferative disorders, Immunization	2
3	Biological identity of superior organisms – MHC class I and class II. Immune tolerance. Transplant immunity.	Lecture+ .ppt presentation	Basic immunological notions will be introduced	Immunization, Immunodeficiency	2
4	Antitumoral immunity. Tumor markers. Cancer immunotherapy.	Lecture+ .ppt presentation	The main investigations will be presented along with their advantages and limitations.	Immunization, Immunodeficiency	2
5	Pathological immune reactions. Systemic and organ-specific autoimmune disorders.	Lecture+ .ppt presentation	The main investigations will be presented, their benefits and limitations.	Allergic conditions, Asthma, Anaphylaxis, Drug reactions, Haemolytic disease in the Rh system, Oedema, Connective tissue disorders, Multiple sclerosis	2
6	Primary and secondary immunodeficiencies	Lecture+ .ppt presentation	The main investigations will be presented, their benefits and limitations	HIV, Immunodeficiency	2

7	Final verification	Multiple choice test.	The tests will be designed and graded according to the university's regulation.	Immunodeficiency	2

Bibliography

Mandatory bibliography:

1. Abbas A. - Basic Immunology: Functions and Disorders of the Immune System, Sixth Edition, Elsevier 2020.

Support bibliography:

1. Abbas A. - Basic Immunology - Ed.4, Saunders, 2019

2. Roderick Nairn, Matthew Helbert - Basic , Ed. 2, MOSBY- ELSEVIER, 2007

- - -

1. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020

2. Essentials of General Surgery and Surgical Specialities. Dr. Peter Lawrence M.D, 2018.

3. Ganti Latha, Lebowitz D, Rosario J, Vera A. Step-up to USMLE Step2 CK, 5th edition. 2020.

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Assessment of the immune system - classification of laboratory immunoassays. Assessment of innate humoral immunity - hsCRP, procalcitonin, complement factors (C3, C4, C1 INH).	Practical demonstrations, case studies	Current techniques for investigation in the modern laboratory will be presented.	Immunization, Immunodeficiency	2
2	CBL - Evaluation of the non-specific cellular immune response – quantitative and qualitative assessment of peripheral blood cells; phagocytosis tests, evaluation of the chemotactic and oxidative burst activity of monocytes and granulocytes.	Practical demonstrations, case studies, CBL test.	Current techniques for investigation in the modern laboratory will be presented	Immunization, Immunodeficiency	2
3	The adaptive humoral immunity: assessment of immunoglobulins in biological fluids.	Practical demonstrations, case studies.	Current techniques for investigation in the modern laboratory will be presented.	Immunization, Immunodeficiency	2
4	Assessment of the adaptive cellular immunity. Flow cytometry.	Practical demonstrations, case studies.	Current techniques for investigation in the modern laboratory will be presented	Immunization, Immunodeficiency, HIV	2
5	Laboratory testing in allergies. Total IgE and specific IgE testing.	Practical demonstrations, case studies	Current techniques for investigation in the modern laboratory will be presented	Drug reactions, Allergic disorders, Asthma, Shock	2
6	Laboratory testing of hemostasis. Monitoring anticoagulant therapy. Molecular testing in thrombotic disorders.	Practical demonstrations, case studies; Evaluation during the semester	Current techniques for investigation in the modern laboratory will be presented.	Thromboembolic disease, Coagulation disease, Purpura	2
7	Recuperation activities	Essays, discussions.	The same topics of laboratory testing methods will be discussed.	Immunization, Immunodeficiency	2

Bibliography

Bibliography:

1. Dobreanu M. et al.- Practical Compendium of Clinical Biochemistry and Immunology, University Press, 2014

Dobreanu Minodora et al. Compendium of practical work. University Press 2014.

Support bibliography:

1. Mary L. Turgeon, Linne & Ringsrud's Clinical Laboratory Science - The basics and routine techniques, 5th Ed., MOSBY- ELSEVIER 2007

2. Christine Dorresteyn Stevens -Clinical Immunology and serology - a LABORATORY perspective, 2nd Ed., FA

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The results provided by the clinical laboratory are valuable regardless of the specialty, as they provide 70% of the information necessary for the diagnosis, prognosis/ monitoring of patients' health.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Theoretical knowledge necessary for understanding the principles of the laboratory methods. Correlation of the knowledge acquired during the lecture with practical aspects.	Practical evaluation throughout the semester + CBL (15% + 15%)	30
Final evaluation			
- theoretical final exam	Correlation of structural aspects with functional ones. Explaining the pathological aspects in the light of normal or modified metabolism.	Multiple choice test	50
- practical final exam	Knowledge necessary to understand the principles of laboratory methods. Correlation of the knowledge acquired during the practical activities with the practical aspects.	Multiple choice test	20

Minimal performance standards:

Minimal performance standards for passing the final theoretical evaluation :

1. Cellular elements of non-specific immune system. Phagocytosis. The complement system.
2. Physical, chemical and biological properties of antigens. Superantigens. Allergens
3. Immunoglobulins: structure, properties, coding, biosynthesis.
4. T and B lymphocytes, lymphocyte receptors. Primary and secondary lymphoid tissues.
5. Cellular markers of biological individuality: major histocompatibility complex class I and class II, structure, function
6. Antigen recognition, processing and presentation. Clonal selection and proliferation. Primary and secondary immune response
7. Tumor marker classification/ Classification of tumors. Immune response to neoplasias. Tumor immunotherapy.
8. Types of transplant; histocompatibility; pre-/post-transplant immunological/laboratory assessment of the patient
9. Immune mechanisms involved in graft rejection. Immunomodulation: immunostimulation, immunosuppression.
10. Hereditary and acquired immunodeficiencies. HIV/AIDS infection.
11. Pathologic immune reactions. Gell-Coombs classification; examples of characteristic immune pathology

Minimal performance standards for passing the final practical activity evaluation :

12. Assessment of the intrinsic and extrinsic pathways of coagulation – APTT, INR, Quick Time. Their role in the monitoring of oral/parenteral anticoagulant treatment.
13. Immune techniques on solid phase: ELISA, chemiluminescence, electrochemiluminescence, solid phase immunochromatography.
14. Complete blood count and differential –its components and their reference ranges
15. Antigen-antibody reaction. Assessment of immune complexes: classification of immune methods of analysis.
16. Principle, parameters and interpretation of the complete blood count. MGG peripheral blood smear. Phagocytosis test - endocytosis and quantification of oxygen reactive species.
17. Assessment of CRP (latex agglutination, double immunodiffusion) and other acute phase reactants, quantification of C3, C4, C1, INH (simple radial immunodiffusion, Laurell immunoelectrodiffusion).
18. Assessment of immunoglobulin concentration in different biological fluids - immunogram (turbidimetry, nephelometry).
19. Peripheral blood lymphogram. Peripheral lymphocyte immunophenotyping: T, B, NK – flow cytometry analysis.

11. Must seen clinical situation list

N/A

12. Clinical / practical abilities

N/A

13. Appointment timetable (for students)

Şef I dr Şular Floredana-Laura 30 minutes after each lecture/ practical activity.

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Healthcare informatics and biostatistics			
2.2 Course coordinator: Conf dr Olah Peter			
2.3 Practical activities coordinator(s): Asist. Univ. Dr. Bacos Bogdan			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 5		
- examinations: 1		
- other activities: 1		
3.8 Total hours of individual study: 22		
3.9 Total hours: 78		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular: Not applicable
4.2 competency: Not applicable

5. Conditions

5.1 for lectures: Not applicable
5.2 for practical activities: Not applicable

6. Specific competencies acquired

6.1 professional competencies: -The student must demonstrate the ability to understand and to acquire IT specific terms, respectively glossary of key terms used in medical informatics -The student must demonstrate the ability to understand and use the main hardware (PC) and software used in computer science and medical informatics -The student must know the main branches and areas of interest in the field of medical informatics -The student must demonstrate the ability to use the latest online documentation tools by understanding the specific architecture of the current Internet, or Web services, and an adequate knowledge of different types of tools for indexing and retrieval on the Internet. - The student must be able to apply the knowledge gained in practice, regarding all stages of documentation (online), organization and retrieval of information in medical databases and / or spreadsheet programs, writing / editing and presentation of scientific papers format imposed in

the biomedical field
6.2 transversal competencies: -Familiarity with specific technologies of the Information Society, the rules of ethics and conduct online security risks associated with managing information in digital media -Familiarity with the use of e-learning platforms synchronous and asynchronous, respectively test solutions online 'adaptive Assessment server' used by most test centers internationally
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The progress of modern medicine becomes increasingly dependent of the ways the computer assists the medical field. Therefore, the main goal of discipline is to familiarize students in the biomedical field with the specific skills requirements of the 'digital age' and with IT vocabulary with key technologies related to computer assisted practice and biomedical research.
7.2 Specific objectives: -Demonstrate students ability to understand and use the main tools hardware (PC) and software used in computer science and medical informatics -Learning important aspects of using the services of indexing and searching online information -Acquisition of practical skills to use advanced solutions for editing office documents required format, manage and organize information exported from medical databases in spreadsheet programs, preparing electronic presentations

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introductory Guide. Medical informatics objectives	Oral + multimedia presentation	n/a	n/a	2
2	Medical informatics fields	Oral + multimedia presentation	n/a	n/a	2
3	Data, Information, Knowledge	Oral + multimedia presentation	n/a	n/a	2
4	Architecture of a digital computer. The hardware architecture of a automated computer system	Oral + multimedia presentation	n/a	n/a	2
5	Architecture of a digital computer. The software architecture of a automated computer system	Oral + multimedia presentation	n/a	n/a	2
6	Computer Networks – introductory guide	Oral + multimedia presentation	n/a	n/a	2
7	The Internet – introductory guide	Oral + multimedia presentation	n/a	n/a	2
8	Online documentation. Searching for information on the Internet (I) - Introduction, types of tools and services for searching information on the Internet	Oral + multimedia presentation	n/a	n/a	2
9	Online documentation. Searching for information on the Internet (II) Ways to use search engines (Google) and directory services (Yahoo Directories) to search for information in the biomedical field. Automated medical documentation services (Medline)	Oral + multimedia presentation	n/a	n/a	2
10	Online documentation. Searching for information on the Internet (III) Evaluation of quality of information published on the Internet / World Wide Web.	Oral + multimedia presentation	n/a	n/a	2

11	Office applications in the biomedical field: Word processing software. Desktop Publishing (DTP). Advanced text editors.	Oral + multimedia presentation	n/a	n/a	2
12	Office applications in biomedical field: spreadsheet software (MS Excel, OO Calc). Software for electronic presentations. Software for organizing activity. Suite of office applications (MS Office, Lotus Smart Suite, OpenOffice).	Oral + multimedia presentation	n/a	n/a	2
13	Biomedical databases.	Oral + multimedia presentation	n/a	n/a	2
14	Biomedical simulation and modeling.	Oral + multimedia presentation	n/a	n/a	2

Bibliography

1. Tigan S., Achimaş A., Drugan T.: Curs de Informatică şi Statistică Medicală, ed. SRIMA, Cluj-Napoca, 2001
2. Măruşteri M., Buraga S, Acostăchioaie D.: Primii paşi în Linux (carte + CD-ROM cu ROSLIMS LinuxLive CD), Ed. Polirom Iaşi, 2006, carte disponibilă online <https://www.slideshare.net/busaco/m-mruiteri-s-buraga-d-acostchioaie-primii-pai-n-linux>
3. Măruşteri M.: Documentare online, manual disponibil online pe serverele UMFST Tg. Mures http://www.umftgm.ro/info/doonline_ROV2.pdf
4. Marius Măruşteri – Documentare online – prezent si perspective, disponibil online pe serverele UMFS Tg. Mures <https://www.umfst.ro/info/english/doonline.pdf>
5. Data.Information.Knowledge - material didactic disponibil online pe serverele UMFST Tg. Mures https://www.umfst.ro/info/english/Data_info_know.pdf
6. Blachman N. – Googleguide, disponibil online la <http://www.googleguide.com/contents/>
7. Gari D Clifford, Joaquin A Blaya, Rachel Hall-Clifford and Hamish SF Fraser: Medical informationsystems: A foundation for healthcare technologies in developing countries, Biomedical Engineering Online, 2008 <https://biomedical-engineering-online.biomedcentral.com/articles/10.1186/1475-925X-7-18>

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Basic knowledge of using computers	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
2	File Managers. (Windows Explorer): General Concepts. Files. Folders/ Directories	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
3	Utilization of Office software in biopharmaceutical field	Practical demonstrations. Synchronous/asynchronous e-learning methods.	Electronic Medical Records (EMR)	n/a	2
4	Advanced text editors. MS Word (I): General concepts. Page formatting; paper, fonts, text formatting, paragraph formatting	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
5	Advanced text editors. MS Word (II): characteristic elements of MS Word text editor: how to select text; operations with blocks, operations with files	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
6	Advanced text editors. MS Word (III): OLE technology (Object Linking and Embedding) – linking and embedding objects in a Word file. Mixing text and image in a Word file.	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
7	Advanced text editors. MS Word (IV) – creating and editing tables	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
8	Advanced text editors. MS Word (V) – the equation editor	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2

9	Spreadsheet software (MS Excel, OO Calc). MS Excel (I) – General concepts ; creating workbook; sheets and cells formatting and editing.	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	Electronic Medical Records (EMR)	2
10	Spreadsheet software MS Excel (II): using objects, editing formulas, using absolute and relative addresses.	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
11	Spreadsheet software MS Excel (III): using simple and complex functions	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
12	Spreadsheet software MS Excel (IV): Diagrams /Charts	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
13	Electronic presentation software (MS Powerpoint, OO Impress). MS Powerpoint. General concepts. Creating and using slides. Using objects in slides. Animations and transitions.	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	n/a	2
14	Online searching strategies. Tips on finding information on The Internet – introductory guide, tools and services for online searching; Online search services: Search engines (Google); Web Directories (Yahoo Directories);	Practical demonstrations. Synchronous/asynchronous e-learning methods.	n/a	Medical Online searching strategies	2

Bibliography

1. Tigan S., Achimaş A., Drugan T.: Curs de Informatică şi Statistică Medicală, ed. SRIMA, Cluj-Napoca, 2001
2. Măruşteri M., Buraga S, Acostăchioaie D.: Primii paşi în Linux (carte + CD-ROM cu ROSLIMS LinuxLive CD), Ed. Polirom Iaşi, 2006, carte disponibilă online <https://www.slideshare.net/busaco/m-mruteri-s-buraga-d-acostchioaie-primii-pai-n-linux>
3. Măruşteri M.: Documentare online, manual disponibil online pe serverele UMFST Tg. Mures http://www.umftgm.ro/info/doconline_ROV2.pdf
4. Marius Măruşteri – Documentare online – prezent si perspective, disponibil online pe serverele UMFS Tg. Mures <https://www.umfst.ro/info/english/doconline.pdf>
5. Data. Information. Knowledge - material didactic disponibil online pe serverele UMFST Tg. Mures https://www.umfst.ro/info/english/Data_info_know.pdf
6. Blachman N. – Googleguide, disponibil online la <http://www.googleguide.com/contents/>

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures.
Diagnosis and interceptive treatment of dentomaxillary anomalies.
Prosthetic restoration of dental arches.
Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Correlation between theoretical and practical notions Capacity of performing practical work in the field	Multiple choice test (TBL)	10
- practical activities	Correlation between theoretical and practical notions Capacity of performing practical work in the field	Practical skills tests during the semester, to test student's ability to properly write an electronic document in a specific/imposed format	25
Final evaluation			
- theoretical final exam	Understanding and integration of all theoretical concepts. Knowledge of bibliographical references	Multiple choice test	40

- practical final exam	Correlation between theoretical and practical notions. Capacity of performing practical work	Practical exam at the end of semester.	25
Minimal performance standards: Understanding basic glossary of specialized terms in information technology and medical informatics specific terms. Ability to proper use the online documentation tools and solutions Ability to properly use the advanced solutions to edit documents, using a pre-defined format Basic understanding of biostatistical terms			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Olah Peter	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Epidemiology			
2.2 Course coordinator: Șef I dr Golea Cristina			
2.3 Practical activities coordinator(s):			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 72		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Appointment timetable (for students)

Şef I dr Golea Cristina	

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Genetics			
2.2 Course coordinator: Șef I dr Bogliș Alina			
2.3 Practical activities coordinator(s): Șef I dr Bogliș Alina, Asist drd Balla Beata			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 16		
- supplemental documentation at the library, from specialized information portals and in the field: 16		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 47		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular: N/A
4.2 competency: N/A

5. Conditions

5.1 for lectures: N/A
5.2 for practical activities: N/A

6. Specific competencies acquired

6.1 professional competencies: Description of basic terms, mechanisms, concepts, and theories of genetics (DNA, RNA, gene, genome, chromosomes, gene expression, variability, recombination, mutations, inheritance patterns) involved in the production of physiological traits and disorders Identification of a genetic disorder, approaches to diagnosis Formulating hypotheses and the correct interpretation of clinical signs and symptoms. Understanding genetic counseling, the role of a medical family tree. Identification of the inheritance mechanism of genetic diseases, estimation of the recurrence risk in genetic diseases. Genetic counseling. Implementing new approaches to the process of diagnosis and management of genetic diseases in relation to knowledge and technical progress in the field of molecular biology. Initiation into scientific research activities in the field of genetics

6.2 transversal competencies: Understanding the need for continuous training in the field of genetics and molecular biology in the era of genetization of medicine: efficient use of resources and learning techniques for personal and professional development, information sources and communication resources, up-to-date specialized publications in genetic, genetic database. Understanding and familiarization with the specific roles and activities in the domain of medical genetics in a team of different specialists.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Acquiring the concepts of medical genetics with applications in dentistry.
7.2 Specific objectives: Understanding the role of genetic factors in the development of physiological traits and genetic diseases with involvement in the oro-maxilo-facial domain. Management of the patient and family affected by a genetic disease – from diagnosis to therapy and prevention

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in genetics. Heredity and variation. Human genetics, medical genetics, clinical genetics. Molecular genetics, cytogenetics, classical genetics. The short history of genetics, genome projects. Genetic databases. The role of genetics in disease development. The role of genetics in disease development. Genomic medicine. Primary, secondary and tertiary structure of DNA.	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
2	Chromatin and chromosomes. Physical (UV absorbtion) and chemical characteristics of DNA (denaturation, renaturation, hybridisation). DNA replication	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
3	The human genome. Non-coding DNA. Repetitive sequences. Transposable elements. The genes: definition, structure, classification, characteristics, gene families	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
4	Gene expression: transcription, mRNA processing, translation. Genetic code. Regulation of gene expression.	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
5	Genetic variability. Recombination. DNA lesions. Repair mechanisms. Mutations.	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
6	Genetic inheritance mechanisms: Monogenic inheritance. Non-mendelian inheritance.	Oral+multimedia presentation	-	Malformations of lip/palate, chromosomal disorders, Monogenic diseases	2
7	Multifactorial inheritance, Congenital anomalies. Dymorphology and teratogenesis. Teeth anomalies and oral lesions- genetics	Oral+multimedia presentation	-	Malformations of lip/palate, chromosomal disorders, Monogenic	2

			diseases	
Bibliography Mandatory bibliography: 1. Thompson & Thompson Genetics in Medicine, 8th edition. Robert Nussbaum, Roderick McInnes, Huntington Willard. Elsevier, 2016 2. Tom Strachan, Andrew Read. Human Molecular Genetics. CRC Press, 2019. ISBN: 9780815345893 Support bibliography: Csép K. Textbook of Genetics – Courses, University of Medicine and Pharmacy Tom Strachan, Andrew Read. Human Molecular Genetics. CRC Press, 2019. ISBN: 9780815345893 Medical genetics - PowerPoint presentation				

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Human chromosomes. Morphology and classification of metaphase chromosomes. The genetic material in the cell cycle. Errors of distribution of the genetic material during cell division.	Oral presentation, Power Point presentation,	microscopy	Chromosomal disorders	2
2	The human karyotype. Karyotype preparation. Indications of karyotyping.	Oral presentation, Power Point presentation,	individual exercise, karyotyping	Chromosomal disorders	2
3	Mutation of the number of chromosomes (Down, Patau, Turner and Klinefelter syndrome. Structural chromosome mutations. Syndrome produced by structural chromosomal anomalies (Cri du chat, DiGeorge, Prader-Willi syndrome)	Oral presentation, Power Point presentation,	Recognition of different karyotypes, presentation of clinical cases	Chromosomal disorders	2
4	The medical family tree. Symbols used for representing the medical family tree. Patterns of inheritance. Autosomal inheritance	Oral presentation, Power Point presentation,	Problem solving, representation of family tree. Calculation of recurrence risks in the offspring,	Monogenic diseases,	2
5	Patterns of inheritance. X-linked inheritance. Y linked inheritance.	Oral presentation, Power Point presentation,	Problem solving. Calculation of recurrence risks in the offspring	Monogenic diseases,	2
6	Molecular cytogenetics. Principles and methods of molecular analysis: PCR, RFLP, sequencing	Oral presentation, Power Point presentation,	Interpretation of molecular test results	Chromosomal disorders, Monogenic diseases,	2
7	Genetic counselling in oral-maxilar-facial syndromes. Genetic databases.	Oral presentation, Power Point presentation,	Problem solving, Calculation of recurrence risks in the offspring	Chromosomal disorders, Monogenic diseases	2

Bibliography Mandatory bibliography: Csép K, Bogliş A, Balla B, Bănescu C, Todoran Butilă A, Tripon F. Medical genetics practical activities for students. University Press, Tg Mures. 2021 Support bibliography: Csép Katalin. Genetics Textbook – Practical sessions. University of Medicine and Pharmacy, 2010 Jones KL, Jones MC, del Campo M. Smith's Recognizable patterns of human malformations. Elsevier, 2013 Thompson & Thompson Genetics in Medicine by Robert L. Nussbaum, Robert Nussbaum & Roderick R. McInnes & Huntington F Willard. 2016, Elsevier				

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Recognizing the oro-maxilo-facial disorders produced by genetic factors. Identification of the inheritance mechanism of genetic diseases, and estimation of the recurrence risk in genetic diseases. Management of the patient and family affected by a genetic disease – from diagnosis to therapy and prevention

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	According to the specifics of the domain - efficient use of medical genetics in the clinical practice	individual tests, practical activities	30
Final evaluation			
- theoretical final exam	According to the specifics of the domain - knowledge of theoretical basis of human genetics	Written exam – Test	50
- practical final exam	According to the specifics of the domain - efficient use of medical genetics in the clinical practice	Written exam	20
Minimal performance standards: - Basic human and medical genetics knowledge, 5 at both the theoretical and practical exam. - According to the university's regulations, the written theoretical exam consists of multiple-question tests with one correct answer and two correct answers. - The correction of the tests is done according to the regulations. - The final practical exam is mandatory, with the minimum passing grade being 5. The practical exam consists of two subjects from the practical works. Their correction is done by giving a score from 1 to 10 for each subject, with the grade for the practical exam representing the average of the two scores.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Bogliş Alina	30 minutes after each lecture and practical activity

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Microbiology (bacteriology)			
2.2 Course coordinator: Prof dr Man Adrian			
2.3 Practical activities coordinator(s): As. drd. Kiss Szilard			
2.2 Course coordinator: Șef I dr Ciurea Cristina-Nicoleta			
2.3 Practical activities coordinator(s):			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 32		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 1		
- examinations: 4		
- other activities: 1		
3.8 Total hours of individual study: 58		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
1. Suspicion/recognition of etiology in bacterial infections
• Proper requesting of microbiological analyses required for diagnosis
• Understanding of bacteriological test results and their appropriate use in the patient's treatment
• Understanding of correct habits on judicious use of antimicrobials, based on the antimicrobial resistance
• Knowledge of normal mouth bacterial flora
• Knowledge of cariogenic and periodontal-pathogenic bacteria
• Knowledge of the mechanisms by which bacteria cause the disease in the oral cavity
2) Knowledge and understanding of the concepts, basic theories, and methods of the specific area of

specialization. Designing and deepening basic knowledge in dental medicine, with general medical coverage • Knowledge of nature and metabolic activity of microorganisms that can contaminate surfaces and dental instruments in the dental cabinet • Paying particular attention to microbiological and hygienic-sanitary control in various stages of treatment in dental offices, to prevent microbial contamination, to comply with the microbiological standards • Defining the principles of human antibiotherapy and specific decontamination. Learning decontamination procedures (asepsis, disinfection, sterilization, and antisepsis) • Using the basic knowledge for explanation and interpretation of various types of concepts, situations, processes, projects, etc. associated with the microbiological field 3) The students will acquire skills regarding the applicability of decontamination methods, techniques for harvesting biological samples and pathological products, and diagnostic methods in bacteriology, parasitology, and virology. 4) The student will own theoretical knowledge related to infectious diseases, the causative agents of infectious diseases (structure, habitat, pathogenicity factors, etiology, etc.), the specific manifestations of maxilla-facial area, prevention, and treatment.
6.2 transversal competencies: • Oral and written communication skills • Teamwork abilities • Development of professional and ethical values • Solving clinical situations and taking correct therapeutic decisions • Responsible and fair execution of professional duties
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: To acquire knowledge about microbial biology, bacterial pathogenesis, and the prevention and treatment of bacterial infections.
7.2 Specific objectives: Knowledge about: • Morphology, physiology, and bacterial genetics • The means by which bacteria cause disease • The role of the immune system in the defense against bacterial infections • The diagnostic procedures used in bacterial infections • Factors that might influence the laboratory results • The main indications for bacteriological diagnosis • The mechanisms by which antimicrobial substances exert their effect and the mechanisms by which bacteria develop resistance to antibiotics • Basic principles of immunization • Bacteria involved in important human infections (morphology, caused diseases, pathogenesis, immunity, mode of transmission, prevention, and treatment) • The normal flora of the human body • The terms of colonization, infection, and carriage • The major medical problems caused by bacteria: factors that lead to the emergence and spread of antimicrobial resistance • Nosocomial infections, infections of immunosuppressed patients, • Bioterrorism • The mechanisms involved in dental caries, periodontal diseases

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The object and purpose of medical microbiology. Bacterial morphology. The structure of the bacteria.	Oral presentations. PPT	-	structure of microorganisms	2
2	The growth and multiplication of bacteria. Activity of physical, chemical and biological agents on bacteria. Pathogenesis of	Oral presentations. PPT	-	Structure of microorganisms Antimicrobial therapy immunization immunodeficiency infection	2

	bacterial infections. Host defense mechanisms. Prevention of infectious diseases.				
3	Gram-positive cocci (Staphylococcus, Streptococcus, Enterococcus). Gram-negative rods (enterobacteria, Pseudomonas aeruginosa).	Oral presentations. PPT	-	Bullous/vesicular skin eruption, Loose stools, Vaginal discharge, Cardiac valve disease, Chronic renal disease, Endocarditis, Gastroenteritis, Infectious disease of childhood, meningitis, Oral disorders (incl. Caries), Otitis media, Respiratory tract infection, Septicaemia, Skin infections/infestations, Urinary tract infection, Disorders of pregnancy and deliver, Sexually transmitted diseases, Pregnancy loss.	2
4	Gram-positive aerobic rods (Corynebacterium). Spore-forming Gram-positive, anaerobic bacteria (Clostridium). Non-spore-forming anaerobic bacteria.	Oral presentations. PPT	-	Dysphagia, Visual impairment, acne, Oral disorders (incl. Caries), Peripheral nerve disorders, peritonitis, septicemia	2
5	Fastidious bacteria: Neisseria, HACECK group. Curved bacteria: Genus Campylobacter. Genus Helicobacter, Treponema, Borrelia. Bacteria that are not classified as Gram: Mycobacterium, Chlamydia.	Oral presentations. PPT.	-	Loose stools, Vomiting, Acid based disturbance, Burns, Carcinoma of the stomach Cystic fibrosis, gastroenteritis, Peptic ulcer, peritonitis, Skin infections/infestations meningitis, Respiratory tract infection, septicemia, Haemoptysis, meningitis, Peripheral nerve disorders, Sexually transmitted diseases, tuberculosis, Urinary tract infection	2
6	Normal flora of the human body. Normal flora of the oral cavity. Oral ecosystem. Characteristics of dental plaque biofilm.	Oral presentations. PPT	-	Normal flora	2
7	Microflora involved in periodontal disease. Etiology of dentoalveolar infections. Microbiology of caries. Etiology of infections of the mouth and salivary glands.	Oral presentations. PPT	-	Oral disorders (incl. Caries)	2

Bibliography

- Winn W, Allen S, Janda W, Koneman E, Procop G, Schreckenberger P, Woods G: Koneman's Color Atlas and Textbook of Diagnostic Microbiology. Lippincott Williams & Wilkins, Philadelphia, 6th edition, 2006
- Philip D Marsh – Oral Microbiology
- Marsh and Martin's Oral Microbiology
- Lakshman Samaranayake - Essential microbiology for dentistry
- Xuedong Zhou - Atlas of Oral Microbiology-From Healthy Microflora to Disease

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Labor safety in the laboratory. Decontamination. The bacteriological diagnostic scheme. The harvesting and transport of pathological samples.	Practical activities, oral presentation	-	Decontamination, disinfection, antisepsis, asepsis, sterilisation	2
2	Study of the bacterial morphology. Wet mount. Smears. Simple and Gram staining. Ziehl-Neelsen staining. Neisser staining.	Practical activities, oral presentation	-	Structure of microorganisms	2

3	The cultivation of microorganisms. Culture media. Inoculation methods. Macroscopic aspects of bacterial culture. Bacterial identification based on biochemical and metabolism characteristics.	Practical activities, oral presentation	-	Identification of microorganisms	2
4	Identification of the bacteria by their antigenic structure: agglutination, ELISA, IF. Intradermic reactions. Detection of nucleic acids - hybridization, gene amplification. Bacterial typing. Bacterial pathogenicity testing in vitro and in vivo (experimental disease).	Practical activities, oral presentation	-	Identification of microorganisms	2
5	Antibiotic susceptibility testing – Antibigram	Practical activities, oral presentation	-	Antibiogram	2
6	Practical exam	Practical exam	-	-	2
7	Laboratory diagnosis of infections caused by Staphylococcus, Streptococcus, Enterococcus, Neisseria.	Practical activities, oral presentation	-	Bullous/vesicular skin eruption, Loose stools, Vaginal discharge, Cardiac valve disease, Chronic renal disease, endocarditis, gastroenteritis, Infectious disease of childhood, meningitis, Oral disorders (incl. Caries), otitis media, respiratory tract infection, septicemia, Skin infections/infestations, Urinary tract infection, Disorders of pregnancy and deliver, Sexually transmitted diseases, Skin infections/infestations, Pregnancy loss	2
8	Laboratory diagnosis of infections caused by Gram-negative rods: Escherichia, Klebsiella, Proteus, Shigella, Salmonella, Pseudomonas.	Practical activities, oral presentation	-	gastroenteritis, Loose stools, peritonitis, Respiratory tract infection, Urinary tract infection, Skin infections/infestations	2
9	Laboratory diagnosis of infections caused by Treponema, Mycobacterium, Clostridium.	Practical activities, oral presentation	-	Constipation, Dysphagia, Visual impairment, acne, Oral disorders (incl. Caries), peritonitis, septicemia, haemoptysis, meningitis, Sexually transmitted diseases, tuberculosis, Urinary tract infection, Respiratory tract infection, Skin infections/infestations	2
10	Laboratory diagnosis of infections caused by endogenous anaerobic bacteria.	Practical activities, oral presentation	-	Oral disorders (incl. Caries)	2
11	Normal flora of the oral cavity. Quantitative assessment of lactobacilli in the mouth.	Practical activities, oral presentation	-	Oral disorders (incl. Caries)	2
12	Antimicrobial activity of dental materials and toothpaste. Microbial flora in periodontitis. Microbiology of dental caries.	Practical activities, oral presentation	-	Oral disorders (incl. Caries)	2
13	Review	Practical activities, oral presentation	-	-	2
14	Practical exam	Practical exam	-	-	2
Bibliography 1. Adrian Man, Anca Mare, Felicia Toma. Atlas de bacteriologie. University Press. 2019;213 pag. ISBN: 978-973-169-612-6					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

By studying microbiology, students from the Dental Medicine Faculty understand the basic information about infections, including the route of transmission of the most important pathogens and the involvement of microorganisms in human disease. This serves to better prophylactic measures in their future practice.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Knowledge on microbiology diagnostic principles and antimicrobial therapy	Seminar	30
Final evaluation			
- theoretical final exam	Knowledge about the presented pathogens	test	70
- practical final exam	-	-	0
Minimal performance standards:			
Minimum passing grade during the semester's practical assessments - 5			
Minimum conditions for admission to final examination			
- grade 5 assessment during the practical assessments			
- 100% presence at practical classes			
- to promote the final evaluation: grade 5 (both for theory and practical exams)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Man Adrian	30 minutes after each lecture
Şef I dr Ciurea Cristina-Nicoleta	

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental materials			
2.2 Course coordinator: Prof dr Székely Melinda-Gyöngyi			
2.3 Practical activities coordinator(s): Șef lucrări dr. Borș Andreea			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 30		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 30		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
English language examination certificate (B2 or C1).

5. Conditions

5.1 for lectures:
Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
Laboratory with work tables, instruments, equipment, etc. necessary for preparing different dental materials used in dental offices and laboratories, presented at the course.

6. Specific competencies acquired

6.1 professional competencies:
- The student, in addition to acquiring dental materials handling technique, will know their composition, physical, mechanical, chemical properties in order to understand the impact of dental materials that come in contact with oral tissues and will have the necessary knowledge for a proper and effective use of these materials in practice.
-The student will know the possibilities for time resistance, good storage and keeping mode of the dental materials, the risks of inhaling chemicals used to manufacture prosthetic restorations, the biocompatibility of dental materials.
-The future dentist should provide technical and material supplies in dental offices, sometimes of the dental laboratory too, so he or she has to know how to choose the right material from different dental materials on the market, he or she has to know which is the best and most suitable material and he or she has to identify

especially the material that matches the requirements and demands of the patient, ensuring the optimum conditions to comply with the international norms.
6.2 transversal competencies: -Cooperation and teamwork is today a complex element, requiring a permanent academic training. The student realizes that the professional activity he or she will perform it is a team work, the human factor being represented by: dentist, dental assistant and dental technician who must ensure the health and safety at work and the usage of modern technologies. -Teamwork, passion for performance and commitment to helping patients equally bounds students to become increasingly efficient dental professionals in dental practice. -The marketing and management of dental offices and dental laboratories through the knowledge of the current dental materials and the knowledge of equipping modern dental laboratories. -Didactic activity in practical instruction or administration in the field of dental materials used in various fields of dentistry.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: To acquire the necessary knowledge for the proper and efficient use of materials in dental practice within prosthetic restorations (C4), conservative therapy (C2) and dental prophylaxis.
7.2 Specific objectives: - To acquire the ability to understand different aspects of composition and properties of dental materials which have implications in dental practice. - Application of theoretical knowledge in the use of dental materials in dental practice. - Learning the techniques of preparation and handling of dental materials used in the dental office and the dental laboratory.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Classification, properties and requirements of dental materials. Generalities. Basic terminology.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
2	General and basic information about dental materials. Rigid and semi-rigid impression materials. Thermoplastic and buccoplastic impression materials.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
3	Elastic impression materials: reversible and irreversible hydrocolloids.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
4	Elastic impression materials: elastomers. Disinfection of impressions. Optical impression.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
5	Non-metallic dental restorative materials.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
6	Materials used for pulp- and dentine protection and cavity base materials. Dental adhesive systems.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
7	Dental luting cements. Temporary restoration materials.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
8	Dental materials for direct restorations. Dental amalgams.	Test. Oral+multimedia presentation	Evaluation (5% of final grade).	-	2
9	Laboratory dental materials: generalities, terminology. Dental materials for models and dies.	Oral+multimedia presentation	Course of 2 hours in English language	-	2

10	Materials used to construct patterns.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
11	Materials for dental prosthetics: metals and alloys.	Test. Oral+multimedia presentation	Evaluation (5% of final grade).	-	2
12	Materials for dental prosthetics: synthetic polymers, acrylic resin.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
13	Materials for dental prosthetics: dental ceramic materials and zirconia.	Oral+multimedia presentation	Course of 2 hours in English language	-	2
14	Materials used to construct moulds: investment materials. Biocompatibility of dental materials.	Oral+multimedia presentation	Course of 2 hours in English language	-	2

Bibliography

Bibliography

References (compulsory):

1. 'Dental Materials' on BlackBoard and E-learning Platform, Website of the UMFST G.E.

Palade of Tg.Mures

2. Schmalz G., Arenholt-Bindslev D.: Biocompatibility of Dental Materials. Springer-Verlag Berlin, Heidelberg, 2009.

3. Székely M., Borş A., Molnar-Varlam Cristina: Dental Materials – Course for Students. University Press, UMFST Tg.Mureş, 2019.

References (facultative):

1. McCabe J.F., Walls A.W.G.: Applied Dental Materials. Editura Blackwell Science, Oxford, 1998.

2. Von Fraunhofer J.A.: Dental Materials at a Glance. Wiley-Blackwell Publishing, Oxford, 2010.

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of the department, inner rules and evaluation methods. Rules of the workplace safety are presented, too.	Orally and written.	Students sign to confirm that they were informed.	-	4
2	Preparation techniques of rigid and semi-rigid impression materials. Impression trays.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
3	Preparation techniques of thermoplastic and buccoplastic impression materials.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
4	Preparation techniques of elastic impression materials: reversible and irreversible hydrocolloids. Hydroalginic impression.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
5	Preparation techniques of elastic impression materials. Combined impression techniques.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
6	Preparation techniques of classical dental cements. Practical knowledge assessment by test.	Practical demonstration and individual preparation. Test	4 hours, Laboratory Report + grade	-	4
7	Preparation techniques of modern dental cements.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
8	Preparation techniques of polymerizable materials: acrylates, composites.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
9	Preparation of Ag and Cu containing dental amalgams. Practical knowledge assessment by test.	Practical demonstration and individual preparation. Test	4 hours, Laboratory Report + grade	-	4
10	Preparation and handling of dental cast materials.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4

11	Handling techniques of materials used for patterns, investments and casting.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
12	Handling techniques of materials used for dental prosthetics: polymers.	Practical demonstration and individual preparation.	4 hours, Laboratory Report	-	4
13	Handling techniques of materials used for dental prosthetics: dental ceramics and alloys.	Multimedia presentation.	4 hours, Laboratory Report	-	4
14	Recapitulation. Knowledge assessment by seminar.	Oral+multimedia+seminar	4 hours, Laboratory Report + grade	-	4

Bibliography

Reference:

1. Molnar-Varlam C.: Ghid practic de utilizare a materialelor dentare. Editura University Press, Târgu-Mureş, 2011.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Dental materials science has been recorded an explosion of news that gave rise to new technologies that have to be known and applied by dental health professionals. Critical applying of dental materials in practice appeared after the dynamic development of modern techniques constantly changing and developing which represents a leading European requirement.

-The dentists must correctly handle the materials they work with, must know the properties and possibilities of their resistance over time, the changes that they can produce, and the effects on the human body.

-The dentist should be able to select the material that best suits to the given clinical situation, which meets the requirements of the patient, but that would be durable and cost effective.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Test based theoretical knowledge. Attendance to lectures according to the Regulations of the Discipline.	Grade obtained on test individually.	10
- practical activities	Practical knowledge related to theoretical knowledge.	Laboratory Report (grades for practical works, and also for the complete laboratory report and presence) and tests through summative evaluation.	20
Final evaluation			
- theoretical final exam	Theoretical knowledge in the domain of courses.	Exam test – multiple choice + short redactional questions.	40
- practical final exam	Practical knowledge and skills joint with theory.	Practical exam including response to a question.	30
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of dental materials, to have no more than 20% unjustified or unrecovered absences from practical work and lectures, to prepare and manipulate the most representative materials used in the dental office and dental laboratory, respectively.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Székely Melinda-Gyöngyi	After every course 30 minutes (1hour/week).

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Health promotion			
2.2 Course coordinator: Conf dr Nădășan Valentin			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 0		
- examinations: 2		
- other activities: 8		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Room with projector/electronic display
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
After participating in the health promotion course, the student will be able to:
• define health and illness, health education and health literacy;
• list the main determinants of health and distinguish between modifiable and non-modifiable risk factors;
• to evaluate the level of health literacy in patients and healthy people;
• to use plain language in communication with patients and healthy people;
• to evaluate the degree of accessibility of health education / promotion materials;
• to define the fundamental components of the interpersonal communication process;
• apply effective communication skills in the relationship with patients and healthy people;
• to list the factors that shape the behaviors with an impact on the state of health;
• describe the essential elements of two theoretical models of behavior change;

• list and formulate the basic principles of health education in the most important chronic non-communicable diseases (prevention of cardiovascular diseases, prevention of cancer diseases, prevention of nutritional and metabolic diseases, prevention of smoking, alcohol and drug use, stress control and violence prevention) • to assist patients and healthy people in order to stop risky behaviors and to adopt behaviors favorable to health; • apply health counseling microskills in relation to patients and healthy people; • list the stages of designing and implementing a health education program
6.2 transversal competencies: After participating in the health promotion course, the student will be able to: • obtain information about health and disease from scientifically valid sources; • assess the quality of health and disease information using scientific quality criteria; • to assist patients and healthy people in finding sources of quality medical information; • identify the moments favorable to learning and show a proactive attitude in the relationship with patients and healthy people in order to detect and early remove modifiable risk factors; • identify potential partners from the local community and involve them in the organization, implementation, and evaluation of health education programs; • identify and describe at least three tools from the field of information and communication technology useful in online health education and promotion.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Highlighting the importance of preventive medicine, explaining the role of behavior as a major determinant of health status and presenting the main skills and methods by which dentists can contribute to the prevention of risk behaviors and the adoption of a healthy lifestyle through health education and promotion at the individual level and at group level.
7.2 Specific objectives: • Defining health, determinants of health, health education, health promotion and health literacy. • Presentation of the main modifiable risk factors in chronic non-communicable diseases and interventions to change risk behaviors with healthy ones. • Presentation of the methods and skills needed for health education at the individual and group level.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	1. Introduction to health education. Definitions and Terminology. The culture of health.	Oral and multimedia presentation	-	Substance Abuse, Infant Feeding, Sexually Transmitted Diseases, Childhood Infectious Diseases, Skin Cancer, Diabetes Mellitus, Hypertension, Ischemic Heart Pathology, Cerebrovascular Pathology, Chronic Pulmonary Pathology	2
2	2. Information in the medical field - sources, risks, evaluation criteria.	Oral and multimedia presentation	-	Substance Abuse, Infant Feeding, Sexually Transmitted Diseases, Childhood Infectious Diseases, Skin Cancer, Diabetes Mellitus, Hypertension, Ischemic Heart Pathology, Cerebrovascular Pathology, Chronic Pulmonary Pathology	2
3	3. Communication in health education and promotion. Principles and Techniques of Effective Communication in Health Education and promotion.	Oral and multimedia presentation	-	Substance Abuse, Infant Feeding, Sexually Transmitted Diseases, Childhood Infectious Diseases, Skin Cancer, Diabetes Mellitus, Hypertension, Ischemic Heart Pathology, Cerebrovascular Pathology, Chronic Pulmonary Pathology	2
4	4. Behavior change. Theories, models, determinants, ethical requirements.	Oral and multimedia presentation	-	Substance Abuse, Infant Feeding, Sexually Transmitted Diseases, Childhood Infectious Diseases, Skin Cancer, Diabetes Mellitus, Hypertension, Ischemic Heart Pathology, Cerebrovascular Pathology, Chronic Pulmonary Pathology	2

5	5. Patient health education. Domains, responsibilities, competencies.	Oral and multimedia presentation	-	Substance Abuse, Infant Feeding, Sexually Transmitted Diseases, Childhood Infectious Diseases, Skin Cancer, Diabetes Mellitus, Hypertension, Ischemic Heart Pathology, Cerebrovascular Pathology, Chronic Pulmonary Pathology	2
6	6. Health education and promotion programs. Types, contexts, design, implementation, evaluation.	Oral and multimedia presentation	-	Substance Abuse, Infant Feeding, Sexually Transmitted Diseases, Childhood Infectious Diseases, Skin Cancer, Diabetes Mellitus, Hypertension, Ischemic Heart Pathology, Cerebrovascular Pathology, Chronic Pulmonary Pathology	2
7	7. Health education and promotion in the computerized society. The potential and risks of the Internet as a health information medium.	Oral and multimedia presentation	-	Substance Abuse, Infant Feeding, Sexually Transmitted Diseases, Childhood Infectious Diseases, Skin Cancer, Diabetes Mellitus, Hypertension, Ischemic Heart Pathology, Cerebrovascular Pathology, Chronic Pulmonary Pathology	2

Bibliography

1. Școala Națională de Sănătate Publică și Management Sanitar. Promovarea sănătății și educație pentru sănătate. București : Public H Press, 2006.
2. *** Education for Health - A manual on health education in primary care. World Health Organization, Geneva, 1988.
3. *** Health Education: Theoretical Concepts, Effective Strategies and Core Competencies. World Health Organization, 2012.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The knowledge, attitudes, and skills acquired within the discipline will have an important contribution in the training of doctors aware of their role as health educators both at the individual level, in the daily activity in dental health care institutions and at the group level, through their involvement in organizing health education and promotion programs for the benefit of the community.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	depending on the specifics of the discipline	project	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	depending on the specifics of the discipline	Multiple choice questions	70
- practical final exam	-	-	0

Minimal performance standards:

- To state the definitions of health, health education, health promotion, health literacy;
- List the main determinants of health and explain the role of behaviors in maintaining health;
- List the basic principles of effective communication in the relationship with patients and healthy people;
- Enumeration and description of factors that influence behaviors with an impact on health;
- Enumeration and description of the content of the stages of design and implementation of a health education and promotion program;

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Nădășan Valentin	30 minutes after each lecture.

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Romanian language			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Asist Ciortea Eduard			
2.4 Year of study: II	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture:	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Romanian language (2)
4.2 competency: Romanian Language - Elementary

5. Conditions

5.1 for lectures: -
5.2 for practical activities: manual

6. Specific competencies acquired

6.1 professional competencies: Studentul va prezenta, la nivel începător-intermediar (A2), următoarele abilități: -citirea corectă și fluentă, precum și înțelegerea conținutului și ideilor generale ale unui text simplu -înțelegerea mesajelor receptate pe cale auditivă -vorbirea cu respectarea regulilor gramaticale și de pronunție -cunoașterea și utilizarea corectă a unui vocabular de bază și semi-specializat
6.2 transversal competencies: Utilizarea limbii române ca mijloc de comunicare cu alți vorbitori ai acelei limbi, în situații generale și specifice
6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Cunoașterea limbii române la nivel mediu pentru a putea înțelege mesajul unui text scris sau audiat.
7.2 Specific objectives: La finalul cursului, studentul va prezenta abilități de comunicare, formulare de întrebări și răspunsuri pe teme precum: prezentare, casa, ocupație, interese, familie, pregătindu-se pentru introducerea limbajului specializat.

8.1 Content of seminar, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Alfabetul, particularități ale scrierii în limba română	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
2	Casa, încăperi, mobilier, activități	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
3	Activități pentru timpul liber	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
4	Mâncăruri și băuturi	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
5	La cumpărături	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
6	Vacanțe	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
7	O zi din viața mea	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4

Bibliography

Bibliography

1. Bălănescu, Olga, Limba română pentru străini, Editura Ariadna, București, 2006
2. Dafinoiu, C.V., Pascale, L.E., Limba română - manual pentru studenții străini, Ed. Univ. București, 2015
- Hedeșan, Otilia (coordonator), Jebelean, Elena, Leucutia Florentina, Musat, Nicoleta, Percec, Dana, Popa, Corina Bun venit în România! Manual de limba română și de orientare culturală, Imprimeria MIRTON, Timișoara, 2008
3. Kohn, Daniela, Puls. Manual de limba română pentru străini. Curs A1-A2, Polirom, Iași, 2009
4. Geană, Ionuț, Limba română pentru străini, Editura Univers, București, 2014
5. Mandelbrojt-Sweeney, M., Limba engleză pentru medici și asistente, Polirom, București, 2006
6. Platon, Elena, Sonea, Ioana, Vilcu, Dina Manual de limba română ca limbă străină (RLS), Casa Cărții de Știință, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, răspuns la întrebări, dialog medic-pacient	30
Final evaluation			
- theoretical final exam	Abilitatea de a înțelege și completa exerciții de multiple choice, potrivire, folosirea corectă a numărului, articolului verbelor învățate	Test scris care cuprinde exerciții de vocabular și gramatică	40
- practical final exam	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, răspuns la întrebări, dialog medic-pacient	30

Minimal performance standards:

Să se poată prezenta, să răspundă la întrebări legate de familie, casă, interese, timp, să poată formula întrebări și cere informații folosind un vocabular de bază, o pronunție clară și fără greșeli mari la nivelul organizării discursului și al folosirii structurilor gramaticale necesare comunicării.

11. Appointment timetable (for students)

Asist. Ciortea Eduard	30 de minute după fiecare activitate practică

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physiopathology. Immunology			
2.2 Course coordinator: Șef I dr Gliga Florina-Ioana			
2.3 Practical activities coordinator(s): Șef lucrari dr Florina Gliga, Asist univ drd Bianca Kosovski, Șef lucrari dr Simon Szabo Zsuzsanna, Asist univ drd Andreea Tinca			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 4		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 1		
- examinations: 2		
- other activities: 1		
3.8 Total hours of individual study: 19		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Identification in terms of efficiency and effectiveness of general health care needs, and treatment. • Description of functioning of human body and the general mechanisms of disease production and their relationship with dental medicine. • Getting Integrating concepts / situations that apply to the human body in order to explain signs and symptoms. • The practical importance of pathophysiology for understanding the of medical disciplines and the correlation between the oral cavity and other medical conditions in the body. • Using the acquired notions in scientific research. • Achieving a work / essay / case presentation - identifying targets.

6.2 transversal competencies:

- Identify objectives to be achieved, the resources available, their closing conditions, work flow, working time, deadlines and related risks.
- Identifying roles and responsibilities in a multidisciplinary team and applying effective techniques and working relationships within the team and the relationship with the patient.
- Effective use of information sources and communication resources and training to assist (Internet portals, specialized software, databases, online courses, etc.)

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Presentation of the mechanisms of diseases which are important for the dental doctors in direct relation with their specific activity.

Establishing the relationship between the general pathology and that related to the oro-maxillofacial sphere: common elements, interactive particularities (generalization of a dental pathological process, localization of a general pathology at the oral -dental area)

7.2 Specific objectives:

Presentation of the etiopathology and pathophysiological mechanisms in general and special pathophysiology of the body systems.

Explaining the mechanisms of action of pharmacological substances from the pathophysiological point of view.

Theoretical and practical skills for positive and differential diagnosis in clinical conditions.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in pathophysiology. The concept of normal and disease. Tissue injury.	Oral presentation and multimedia	-	Aggression.Oral disorders (incl. Caries)	2
2	Immunology. Pathophysiology of body's defense systems:non-specific and specific defense. Inflammatory syndrome. Particularities of the oral cavity	Oral presentation and multimedia	-	Immunodeficiency.Infectious disease.Lymphadenopathy	2
3	Immunology.Acute and chronic infection. Particularities of the oral cavity.	Oral presentation and multimedia	-	Infectious disease.Lymphadenopathy.	2
4	Immunology. Immune implications in the physiopathology of fever. Correlations with oral cavity pathology.	Oral presentation and multimedia	-	Fever. PUO-pyrexia of unknown origin	2
5	Immunology. Allergic reactions in oromaxillofacial pathology. Immunodeficiency states and the relationship with OMF pathology	Oral presentation and multimedia	-	Allergic disorders Immunodeficiency.Immunisation	2
6	Pathophysiology of erythrocytes. Anemic syndrome, polycythemia: etiopathogenesis, classification, principles of treatment. Clinical and diagnostic importance Peculiarities in the oral cavity	Oral presentation and multimedia	-	Anemia.Dizziness.Cyanosis	2
7	Pathophysiology of blood hemostasis. Clotting disorders. Particularities of the oral cavity.	Oral presentation and multimedia	-	Coagulation disease	2

8	Pathophysiology of the cardiovascular system. Hyper and hypotension. Cardiac diseases. Cardiac arrhythmia. Applications in dental medicine	Oral presentation and multimedia	-	Hypertension. Cardiac conduction/ rhythm disorder	2
9	Pathophysiology of the respiratory system. Applications in dental medicine.	Oral presentation and multimedia	-	Chronic bronchitis and emphysema. Respiratory tract infection. Asthma.	2
10	Pathophysiology of the digestive tract. Particularities of the oral cavity.	Oral presentation and multimedia	-	Dysphagia. Malabsorption. Peptic ulcer	2
11	Pathophysiology of nutrition and metabolic diseases. Particularities of the oral cavity.	Oral presentation and multimedia	-	Diabetes mellitus. Hypoglycaemia. Malnutrition	2
12	Pathophysiology of the endocrine system. Applications in dental medicine	Oral presentation and multimedia	-	Disorders of calcium and vitamin D metabolism. Thyroid disorders. Pituitary disorders	2
13	Pathophysiology of the renal system. Renal failure. Applications in dentistry	Oral presentation and multimedia	-	Chronic renal disease. Urinary tract infection. Polyuria	2
14	Pathophysiology of pain. Applications in dental medicine.	Oral presentation and multimedia	-	Migraine. Headache	2

Bibliography

1. Goldman-Cecil Medicine, Twenty Sixth Edition, Elsevier, 2019
2. Essentials of Pathophysiology: Concepts of Altered Health States, Carol Mattson Porth, second edition, Lippincott William Wilkins, 2006
3. Paulev Poul-Erik, Textbook in Medical Physiology and Pathophysiology, Copenhagen Medical Publishers, 2000 Springhouse,
4. Professional guide to pathophysiology 2ed, Ed. Lippincott Williams and Wilkins, 2006
5. Bacărea Anca, Pathophysiology, Lecture guide, University Press Tîrgu Mureş, 2014

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Protection rules in the pathophysiology laboratory.	Lab practical activities, PPT presentation, discussions	-	-	2
2	Practical applications of the pathophysiology of inflammation in dental medicine. WBCs	Lab practical activities, PPT presentation, discussions	-	Oral disorders (incl. Caries) Infectious disease of childhood	2
3	Clinical and paraclinical data of acute/chronic infection in dentistry.	Lab practical activities, PPT presentation, discussions	-	Infectious disease of childhood	2
4	Immunological investigations in the physiopathology of febrile syndrome. Correlations with oral cavity pathology.	Lab practical activities, PPT presentation, discussions	-	Fever. PUO	2
5	Interpretation of signs, symptoms and paraclinical data in allergic reactions and immunodeficiency states related to dentistry.	Lab practical activities, PPT presentation, discussions	-	Allergic disorders. Immunodeficiency	2
6	Practical applications of the pathophysiology of erythrocyte series in dental medicine. Exploring anemic syndrome.	Lab practical activities, PPT presentation, discussions	-	Anemia	2

	Polycythemia				
7	Practical applications of the pathophysiology of hemostasis in dental medicine.	Lab practical activities,PPT presentation, discussions	-	Coagulation disease	2
8	Practical applications of the pathophysiology of cardiovascular system in dental medicine. The blood pressure. The pulse. Vascular reactivity tests.	Lab practical activities,PPT presentation, discussions	-	Hypertension.Cardiac conduction/ rhythm disorder	2
9	Practical applications of the pathophysiology of respiratory system in dental medicine	Lab practical activities,PPT presentation, discussions	-	Chronic bronchitis and emphysema.Respiratory tract infection.Asthma	2
10	Practical applications of the pathophysiology of digestive tract and metabolism in dental medicine	Lab practical activities,PPT presentation, discussions	-	Malabsorption.Peptic ulcer	2
11	Practical applications of the pathophysiology of hyperglycemic and hypoglycaemic syndrome. Diabetes mellitus. Chronic and acute DM complications.	Lab practical activities,PPT presentation, discussions	-	Diabetes mellitus.Hypoglycaemia	2
12	Practical applications of the pathophysiology of endocrine pathology. Endocrine diseases involving the oral cavity. Practical applications in dental medicine.	Lab practical activities,PPT presentation, discussions	-	Thyroid disorders.Pituitary disorders	2
13	Practical applications of the pathophysiology of renal system in dental medicine.	Lab practical activities,PPT presentation, discussions	-	Urinary tract infection. Chronic renal disease. .Disorders of calcium and vitamin D metabolism	2
14	Interpretation of signs, symptoms and paraclinical data in pain of oromaxillofacial origin. Applications in dentistry	Lab practical activities,PPT presentation, discussions	-	Osteoarthritis. Edema.Cranial nerve disorders	2

Bibliography

1. Paulev Poul-Erik, Textbook in Medical Physiology and Pathophysiology, Copenhagen Medical Publishers, 2000
2. Silbernagl S., Lang F.,Color Atlas of Pathophysiology, Thieme, 2000
3. Springhouse, Professional guide to pathophysiology 2ed, Ed. Lippincott Williams and Wilkins, 2006
4. General Practice Notebook [http:// .www.gpnotebook.co.uk/homepage.cfm](http://www.gpnotebook.co.uk/homepage.cfm), 2010
5. Robbins & Cotran Pathologic Basis of Disease, Tenth Edition, 2020.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL test1 TBL test2	written test 10 % written test 10 %	20
- practical activities	Written practical activity test Case report - oral and multimedia individual presentation	Written test 5 % Case presentation 10%	15
Final evaluation			
- theoretical final exam	Final theoretical exam	Written multiple choice test	40
- practical final exam	Final practical exam	A written / oral - practical test	25

Minimal performance standards:

The passing grade is the grade 5 for both theoretical and practical exam; the student is obliged to attend practical sessions, courses, recover all absences, to pass both theoretical and practical exams and to properly use the specialized terminology.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Gliga Florina-Ioana	30 minutes after every lecture or practical activity

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Microbiology (virology, parasitology)			
2.2 Course coordinator: Prof dr Man Adrian			
2.3 Practical activities coordinator(s): post vacant			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 32		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 1		
- examinations: 4		
- other activities: 1		
3.8 Total hours of individual study: 58		
3.9 Total hours: 100		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
1) Suspicion and recognition of the etiology of viral, parasitic and fungal infections
• proper requesting of microbiological analyses required for diagnosis
• understanding of microbiological results and their appropriate use in the patient's treatment
• acquiring a basic knowledge of prevention and treatment of viral infections
• knowledge of current issues regarding the re-emerging viral infections
2) Knowledge and understanding the concepts, basic theories and methods of the specific area of specialization. Designing and deepening of basic knowledge in dental medicine, with general medical coverage
• Knowledge of nature of microorganisms that can contaminate surfaces and dental instruments in the dental cabinet
• Paying particular attention to microbiological and hygienic-sanitary control in various stages of treatment in

dental offices, to prevent microbial contamination, so to comply with the microbiological standards. • Defining the principles of decontamination. Learning decontamination procedures (asepsis, disinfection, sterilization and antisepsis) • Using the basic knowledge for explanation and interpretation of various types of concepts, situations, processes, projects, etc. associated to the microbiological field 3) The students will acquire skills regarding the applicability of decontamination methods, techniques for harvesting biological samples and pathological products, diagnostic methods in mycology, parasitology and virology. 4) The student will own theoretical knowledge related to infectious diseases, the causative agents of infectious diseases (structure, habitat, pathogenicity factors, etiology, etc.), the specific manifestations of maxillo-facial area, prevention, treatment.
6.2 transversal competencies: • Team work abilities • Oral and written communication skills • Development of professional and ethical values • Solving clinical situations and taking correct therapeutic decisions • Responsible and fair execution of professional duties
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.
7.2 Specific objectives: Knowledge about - o Morphology, physiology and genetics of viruses, parasites and fungi - o the means by which the microbes cause disease - o the role of immune system in the defense against viral / parasitic / fungal infections - o the diagnostic procedures used in viral, parasitic and fungal infections, the factors with possible influence on the results - o the main indications for performing microbiological diagnosis - o the mechanisms of antimicrobial activity - o epidemiology - o the microorganisms - viruses, fungi, parasites - involved in important human infections (morphology, caused diseases, pathogenesis, immunity, mode of transmission, prevention and treatment) - o the major medical problems caused by microorganisms (viruses, fungi and parasites): infections in immunosuppressed patients, the role of vaccination in preventing infections

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	General characteristics of viruses. Architecture of virions. The chemical composition of the viruses. Replication of viruses. Viral genetics.	PPT presentation	-	Structure of microorganisms	2
2	Viroids, prions. Bacteriophage. Relations between virus and host cell. The pathology of viral infection.	PPT presentation	-	Structure of microorganisms, Infection, Antimicrobial therapy, Immunity, Immunodeficiency	2
3	DNA viruses: Adenoviridae, Herpesviridae, Paillomaviridae. RNA viruses: Orthomyxoviridae,	PPT presentation	-	Loose stools, gastroenteritis, Bullous/ vesicular skin eruption, Haematuria, Loose stools, Carcinoma of head and neck, Carcinoma of the cervix/uterus/	2

	Paramyxoviridae, Reoviridae			ovary, Infectious disease of childhood, Respiratory tract infection, Sexually transmitted diseases	
4	Human immunodeficiency virus. Human hepatitis viruses.	PPT presentation	-	HIV, Hepatomegaly, Jaundice, Acute liver disease/failure, Chronic liver disease	2
5	Classification of parasites. Protozoology. Flat worms: Trematodes, tapeworms.	PPT presentation	-	Loose stools, Vaginal discharge, Malabsorption, Pregnancy loss, Sexually transmitted diseases, Abdominal distension, Abdominal pain, Constipation, Hepatomegaly, Jaundice, Pruritus, Weight loss, Acute liver disease/failure, Allergic disorders, Anemia, Eating disorders, malaria, Skin ulcerations	2
6	Cylindrical worms: nematodes. Entomology. Parasitic infections that affect the immune-deficient hosts. Tropical / import parasitic diseases	PPT presentation	-	Loose stools, Vaginal discharge, Malabsorption, Pregnancy loss, Sexually transmitted diseases, Abdominal distension, Abdominal pain, Constipation, Hepatomegaly, Jaundice, Pruritus, Weight loss, Acute liver disease/failure, Allergic disorders, Anemia, Eating disorders, malaria, Skin ulcerations	2
7	Mycology: generalities. Mycology: yeasts, filamentous fungi. Etiology of iatrogenic infections in relation to practice in dental offices	PPT presentation	-	Hair disorders, Skin infections/infestations, Vaginal discharge, Candidiasis, meningitis, Respiratory tract infection, septicemia. Vaginal discharge, Candidiasis, meningitis, Respiratory tract infection, septicemia, Hair disorders, Skin infections/infestations. Decontamination, Infection control.	2

Bibliography

1. Brooks G.F., Butel, J. S., Morse, S.A.: Jawetz, Melnick, Adelberg's Medical Microbiology, 23 rd edition. 2006
2. Koneman: Color Atlas and Textbook of Diagnostic Microbiology, Lippincott, 2006
3. Murray, P.R., Rosenthal, K.S., Kobayashi, G.S., Pfaller, M.A.: Medical Microbiology, Fourth Edition. Mosby 2002.
4. Samaranayake, L: Essential Microbiology for Dentistry. Churchill Livingstone, Elsevier, 2006
5. Marsh, P.D., Martin, M.V.: Oral Microbiology Fifth edition. Churchill Livingstone, Elsevier, 2009
6. Xuedong Zhou, Yuqing Li: Atlas of Oral Microbiology: From Healthy Microflora to Disease, 1st edition, Elsevier, 2015
7. <https://microbiologie.umfst.ro>

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Labor safety in the virology-mycology-parasitology laboratory. Decontamination. The diagnostic scheme in viral diseases. The harvesting and transport of pathological samples	Practical activity, oral speech	-	Decontamination, Pathological products	2
2	Morphology and cultivation of viruses (cell cultures, inoculation of embryonated chicken egg, inoculation of laboratory animals).	Practical activity, oral speech	-	Structure of microorganisms, Identification of microorganisms	2
3	Diagnostic techniques in microbiology. Microscopic examination. Antigen-antibody assays. Methods for nucleic acids detection.	Practical activity, oral speech	-	Identification of microorganisms	2
4	Laboratory diagnosis of oropharyngeal viral diseases. Herpetic gingivostomatitis - HSV I and II, VZV, EBV, CMV. Herpangina and hand-foot-mouth disease - Coxsackie. Oral manifestations in Morbillivirus infection. Laboratory diagnosis of infections caused by papillomaviruses.	Practical activity, oral speech	-	Bullous/vesicular skin eruption, - Carcinoma of head and neck, Carcinoma of the cervix/uterus/ovary, - Infectious disease of childhood, Respiratory tract infection, Sexually transmitted diseases,	2

5	Laboratory diagnosis of viral enteral diseases (rotavirus), respiratory diseases: Rhinovirus, Influenza virus and parainfluenza, respiratory syncytial virus, adenovirus.	Practical activity, oral speech	-	Gastroenteritis, Loose stools, Respiratory tract infection, Urinary tract infection	2
6	Laboratory diagnosis of viral hepatitis.	Practical activity, oral speech	-	Hepatomegaly, Jaundice, - Acute liver disease/failure, Chronic liver disease	2
7	Laboratory Diagnosis of HIV /AIDS	Practical activity, oral speech	-	HIV	2
8	Seminar	Practical exam	-	-	2
9	Diagnostic scheme of parasitological infections. Diagnostic methods used in parasitology laboratory. Nomenclature of parasites and parasitic diseases. Classification of parasites.	Practical activity, oral speech	-	Structure of microorganisms, Identification of microorganisms	2
10	Phylum Protozoa, Class Rhizopoda: Entamoeba gingivalis, Entamoeba histolytica. Trichomonas buccalis, Trichomonas vaginalis, Giardia lamblia, Toxoplasma gondii.	Practical activity, oral speech	-	Loose stools, Vaginal discharge, - Pregnancy loss, Sexually transmitted diseases	2
11	Phylum Helminthes – Nematodes: Ascaris, Enterobius, Trichinella spiralis. Phylum Helminthes – Cestodes: Echinococcus granulosus, Taenia saginata and Taenia solium	Practical activity, oral speech	-	Abdominal distension, Abdominal pain, Constipation, Hepatomegaly, Jaundice, Pruritus, Weight loss - Acute liver disease/failure, Allergic disorders, Anemia, Eating disorders	2
12	Mycology: Laboratory diagnosis of infections caused by yeasts and filamentous fungi	Practical activity, oral speech	-	Vaginal discharge, - Candidiasis, - meningitis, Respiratory tract infection, septicemia, Skin infections/infestations,	2
13	Review. Recovery of missed classes.	Practical activity, oral speech	-	-	2
14	Seminar	Practical exam	-	-	2
Bibliography e-learning Blackboard					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Given the increasing number of patients with invasive and / or immunosuppressive interventions, which are vulnerable to bacterial infections, and the emergence or re-emergence of some bacteria, it is essential to prepare future doctors in the field of microbiology. This ensures the acquirement of good knowledge on the bacteria responsible for infections, and on the principles of diagnosis, treatment and prophylaxis.

- Particular attention is paid to microbiological and hygienic-sanitary control during the treatments conducted in dental offices, in order to prevent microbial contamination and to comply to the microbiological standards.
- It is important to know the normal flora of the oral cavity, the bacteria involved in cariogenesis and periodontal disease, and the mechanisms by which oral bacteria can cause disease.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Knowledge on microbiology diagnostic principles and antimicrobial therapy	seminar	30

Final evaluation			
- theoretical final exam	Knowledge about the presented pathogens	Test	70
- practical final exam	-	-	0
Minimal performance standards: - Minimum passing grade during the semester's practical assessments - minimum 5 - Minimum conditions for admission to final examination - Grade 5 assessment during the seminars - 100% presence at practical classes - To promote the final evaluation - grade 5 (both for theory and practical exams)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Man Adrian	30 minutes after lecture

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Preventive dentistry (1)			
2.2 Course coordinator: Șef I dr Bereșescu Liana			
2.3 Practical activities coordinator(s): Șef I dr Bereșescu Liana, Șef I dr Tohati Adrian-Roland, Șef I dr Petcu Blanka-Timea			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 18		
- supplemental documentation at the library, from specialized information portals and in the field: 18		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 18		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 55		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: The student must be able to know the equipment, materials, the tools and techniques needed to implement oral hygiene optimum.
6.2 transversal competencies: The student must know the labor protection rules and the risks of possible nosocomial infections

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Introducing students to the field of dental prophylaxis.
7.2 Specific objectives: Knowledge of different methods and techniques of primary and secondary prophylaxis.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The history and philosophy of dental prevention	oral presentation and multimedia	-	-	2
2	The preventions of infections transmission in dentistry	oral presentation and multimedia	-	-	2
3	Organization of the circuit of clinical activity in the dental office	oral presentation and multimedia	-	-	2
4	Saliva and its role in maintaining oral health.	oral presentation and multimedia	-	-	2
5	The dental plaque	oral presentation and multimedia	-	-	2
6	The role of the dental plaque in caries and periodontitis etiology	oral presentation and multimedia	-	-	2
7	Dental plaque highlighting. Health Index.	oral presentation and multimedia	-	-	2
8	The control of dental plaque by main mechanic methods	oral presentation and multimedia	-	-	2
9	The control of dental plaque by supplementary methods	oral presentation and multimedia	-	-	2
10	THE CHEMICAL CONTROL OF THE DENTAL PLAQUE	oral presentation and multimedia	-	-	2
11	Professional hygienisation	oral presentation and multimedia	-	-	2
12	Food hygiene	oral presentation and multimedia	-	-	2
13	Fluoride: generalities, metabolism and action	oral presentation and multimedia	-	-	2
14	General and local methods of fluoride use	oral presentation and multimedia	-	-	2
Bibliography PREVENTIVE DENTISTRY NOTIONS. BERESCU LIANA, PETCU BLANKA, FARAH BECHIR, 2019, University Press Tg Mures.					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Labor protection training	oral presentation	-	-	3
2	Presentation of the discipline's internal regulations	oral presentation	-	-	3
3	General presentation of the office of dental Medicine	oral presentation	-	-	3
4	Dental plaque highlighting.	practical activities	-	-	3
5	Oral hygiene index	practical activities	-	-	3
6	Periodontal index	practical activities	-	-	3

7	Practical presentation of different brushing techniques	practical activities	-	-	3
8	The practical acquisition of different brushing techniques	CBL session	-	-	3
9	practical presentation of different complementary techniques	practical demonstration	-	-	3
10	The practical acquisition of various complementary techniques	CBL session	-	-	3
11	Demonstration of professional hygienisation techniques	practical demonstration	-	-	3
12	The acquisition of professional hygiene techniques	practical activities	-	-	3
13	Practical presentation of topical fluoridation	practical demonstration	-	-	3
14	Practical elements of food hygiene	practical activities	-	-	3
Bibliography PREVENTIVE DENTISTRY NOTIONS. BERESESCU LIANA, PETCU BLANKA, FARAH BECHIR, 2019 Editura University Press Tg Mures					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	2 CBL sessions	practical evaluation	30
Final evaluation			
- theoretical final exam	test	grill questions	50
- practical final exam	Practical activities	practical	20
Minimal performance standards: Realization of a feasible prophylaxis plan in order to obtain an individualized oro-dental hygiene			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Bereşescu Liana	30 min dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Morphopathology			
2.2 Course coordinator: Șef I dr Baniș Laura			
2.3 Practical activities coordinator(s): Șef I dr Baniș Laura			
2.2 Course coordinator: Șef I dr Turdean Sabin-Gligore			
2.3 Practical activities coordinator(s): Șef I dr Turdean Sabin-Gligore			
2.4 Year of study: II	2.5 Semester: 1-2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per year of didactic activities)

3.1 Hours per week: 8/4	3.2 lecture: 4/2	3.3 practical activities: 4/2
3.4 Total hours in curriculum: 84	3.5 lectures: 42	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 20		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 41		
3.9 Total hours: 125		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
English language certificate - Profex level C1

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Understanding the basic pathological aspects of the main lesions of the human body.
6.2 transversal competencies: The interactive collaboration of the student with the didactic staff.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Understanding the basis of the pathological processes and adapting them to systemic and oral pathology.

7.2 Specific objectives:

Knowing the basic morphological and clinical disorders.

Understanding the morphological changes in different disorders (micro- and macroscopic aspects).

8.1 Content of lecture, semester 1-2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
The first semester					
1	Disorders of circulation - part 1	PowerPoint presentation	-	Cerebrovascular disease, Pleural effusion, Peripheral vascular disease, Thromboembolic disease, Coagulation disease, Shock, Varicose veins, Oedema	2
2	Disorders of circulation - part 2	PowerPoint presentation	-	Cerebrovascular disease, Pleural effusion, Peripheral vascular disease, Thromboembolic disease, Coagulation disease, Shock, Varicose veins, Oedema	2
3	Disorders of cell and tissue metabolism, disorders of cellular proliferation and differentiation	PowerPoint presentation	-	Hypoglycaemia, Encephalopathy, Inborn errors of metabolism, Drug reactions, Electrolyte and water balance, Disorders of uric acid metabolism, Cystic fibrosis, Disorders of calcium and vitamin D metabolism, Disorders of lipid metabolism	2
4	Inflammation - part 1	PowerPoint presentation	-	asthma, allergic disorders, Immunisation, Tuberculosis, Immunodeficiency, HIV	2
5	Inflammation - part 2	PowerPoint presentation	-	asthma, allergic disorders, Immunisation, Tuberculosis, Immunodeficiency, HIV	2
6	Tumors - part 1	PowerPoint presentation	-	Bone malignancy, skin cancer, childhood tumors, Carcinoma of the colon and rectum, Lymphadenopathy, Carcinoma of the stomach, Brain tumor, Carcinoma of the kidney and bladder	2
7	Tumors - part 2	PowerPoint presentation	Test - multiple-choice questions	Bone malignancy, skin cancer, childhood tumors, Carcinoma of the colon and rectum, Lymphadenopathy, Carcinoma of the stomach, Brain tumor, Carcinoma of the kidney and bladder	2
8	Pathology of the cardiovascular system	PowerPoint presentation	-	Aortic aneurysm, Thromboembolic disease, Peripheral vascular disease, Varicose veins, Sexually transmitted diseases	2
9	Pathology of the cardiovascular system	PowerPoint presentation	-	Malformations of cardiovascular system, Cardiorespiratory arrest, Ischemic heart disease, Endocarditis, Chest pain	2
10	Pathology of the respiratory system	PowerPoint presentation	-	Otitis media, Pneumothorax, Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease, Carcinoma of the bronchus, Asthma	2
11	Pathology of the respiratory system	PowerPoint presentation	-	Otitis media, Pneumothorax, Chronic bronchitis and emphysema, Respiratory tract infection, Chronic lung disease, Carcinoma of the bronchus, Asthma	2
12	Oral and maxillofacial pathology	PowerPoint presentation	-	Oral disorders (incl. Caries)	2

13	Oral and maxillofacial pathology	PowerPoint presentation	-	Otitis media	2
14	Oral and maxillofacial pathology	PowerPoint presentation	-	Malformations of lip/palate	2
15	Oral and maxillofacial pathology	PowerPoint presentation	-	Osteomyelitis	2
16	Oral and maxillofacial pathology	PowerPoint presentation	-	Carcinoma of head and neck	2
17	Pathology of the gastrointestinal tract	PowerPoint presentation	-	Carcinoma of the oesophagus, Peptic ulcer, Gastroenteritis, Carcinoma of the stomach, Inflammatory bowel disease, Appendicitis, Carcinoma of the colon and rectum, Intestinal obstruction, Peritonitis, Diverticular disease, Hernia	2
18	Pathology of the liver, gallbladder, and pancreas	PowerPoint presentation	-	Gall bladder disease, Disorders of pancreas, Carcinoma of the pancreas	2
19	Pathology of the kidney and urinary tract	PowerPoint presentation	-	Chronic renal disease, Carcinoma of the kidney and bladder	2
20	Pathology of the female genital system and pathology of the breast	PowerPoint presentation	-	Carcinoma of the cervix/uterus/ovary, Infertility, carcinoma of the breast	2
21	Pathology of the male genital system	PowerPoint presentation	-	Pathology of the male genital system	2

Bibliography

1. Powerpoint presentations.
2. Kumar V, Abbas AK, Aster JC. Robbins Basic Pathology. 10th ed. New York, Elsevier 2018.
3. Gurzu S, Jung I. Patologie specială pentru studenții Facultății de Asistență Medicală. University Press Tîrgu Mureș 2014. ISBN 978-973-169-312-5.
4. Gurzu S, Jung I. Patologie generală pentru studenții Facultății de Asistență Medicală. University Press Tîrgu Mureș 2013. ISBN 978-973-169-214-2.
5. Gurzu S, Jung I, Turdean S. Patologie stomatologică/Dental pathology - Ed. University Press 2018, ISBN: 78-973-169-520-4.
6. Baniias L, Jung I, Gurzu S. PATOLOGIE GENERALĂ pentru studenții facultății de medicină dentară / GENERAL PATHOLOGY for dental medicine students. University Press Tîrgu Mureș 2020. ISBN 978-973-169-668-3.

8.2 Content of laboratory, semester 1-2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
The first semester					
1	Disorders of circulation	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Oedema, Thromboembolic disease, Chronic liver disease, Shock, Cerebrovascular disease	2
2	Disorders of cell and tissue metabolism	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Gall bladder disease, Dysuria, Disorders of lipid metabolism, Chronic renal disease, Urinary tract obstruction, Disorders of prostate, Disorders of uric acid metabolism, Joint swelling	2
3	Inflammation	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Respiratory tract infection, Pericardial disease, Septicaemia, Meningitis	2

4	Inflammation	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Tuberculosis, Lymphadenopathy	2
5	Tumors	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Breast lump, Menstrual disorders, Drug reactions	2
6	Tumors	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Skin cancer, Skin ulcerations, Carcinoma of the bronchus, Breathlessness, Haemoptysis, Carcinoma of the colon and rectum, Lymphadenopathy, Carcinoma of the stomach, Brain tumor, Carcinoma of the kidney and bladder	2
7	Malformations	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Malformations of spine/CNS-central nervous system, Malformations of cardiovascular system	2
8	Pathology of the cardiovascular system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Cardiorespiratory arrest, Ischemic heart disease, Endocarditis, Chest pain	2
9	Pathology of the cardiovascular system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Aortic aneurysm, Thromboembolic disease, Peripheral vascular disease, Varicose veins, Sexually transmitted diseases	2
10	Pathology of the respiratory system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Tuberculosis, Chronic bronchitis and emphysema, Chronic lung disease	2
11	Pathology of the respiratory system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Carcinoma of the bronchus, Respiratory tract infection	2
12	Pathology of the digestive system and oral cavity	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Carcinoma of head and neck, Malformations of lip/palate, Oral disorders (incl. Caries)	2
13	Pathology of the digestive system and oral cavity	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Inflammatory bowel disease, Carcinoma of the stomach	2
14	Pathology of the digestive system and oral cavity	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and	-	Gall bladder disease, Disorders of pancreas, Carcinoma of the pancreas	2

		microscopic demonstrations (scanned slides).			
15	Pathology of the kidney, urinary tract, and male genital system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Chronic renal disease, Carcinoma of the kidney and bladder	2
16	Pathology of the kidney, urinary tract, and male genital system	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Disorders of prostate	2
17	Pathology of the female genital system and pathology of the breast	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Carcinoma of the cervix/uterus/ovary	2
18	Pathology of the female genital system and pathology of the breast	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	carcinoma of the breast, Breast lump	2
19	Pathology of the endocrine, nervous and locomotor systems	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Thyroid disorders	2
20	Pathology of the endocrine, nervous and locomotor systems	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Brain tumor, Bone malignancy	2
21	Revision	Power-point presentation, practical macroscopic (jars with organs immersed in formalin and pictures), and microscopic demonstrations (scanned slides).	-	Carcinoma of the cervix/uterus/ovary, Chronic renal disease, Carcinoma of the kidney and bladder, Gall bladder disease, Disorders of pancreas, Carcinoma of the pancreas, Thyroid disorders ...	2

Bibliography

Bibliography

1. Gurzu Simona, Jung Ioan. Introduction in histopathology. Ed - University Press, 2012.
2. Gurzu Simona, Jung Ioan, Sabin Turdean. Patologie stomatologică/Dental pathology - Ed. University Press 2018, ISBN: 78-973-169-520-4.
3. Powerpoint presentations.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The dental medical student should understand, in his preclinical activity, the basic aspects related to the macro- and microscopical features of the main diseases encountered in the daily diagnosis. The students' familiarization with the importance of medical know-how is also mandatory.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Level of knowledge regarding the general morphological aspect of basic lesions.	Multiple-choice question-based evaluation.	20

- practical activities	Recognition and description of various tissues and organs with different pathologies, on both microscopic slides and jars with organs immersed in formalin.	Oral/written exam regarding the macro- and microscopic specimens studied during the 1st module.	15
Final evaluation			
- theoretical final exam	Level of knowledge regarding the morphological aspect of lesions, correlated with the clinical impact.	Written exam containing multiple-choice questions, organized according to the university's rules.	50
- practical final exam	Recognition and description of various tissues and organs with different pathologies, on both microscopic slides and jars with organs immersed in formalin.	Oral/written exam regarding the macro- and microscopic specimens studied during the 2nd module.	15
Minimal performance standards: Basic knowledge about the main pathological processes of the human body – 1st module Knowing the main aspects of systemic and oral pathology – 2nd module According to departments' rules and regulations.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Baniş Laura	30 min after each lecture/practical activity
Şef I dr Turdean Sabin-Gligore	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: F2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Pharmacology			
2.2 Course coordinator: Șef I dr Jîtcă George			
2.3 Practical activities coordinator(s): Șef I dr Jîtcă George, Șef I dr Bába László-István			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 6		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 6		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 19		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Definition and description of medicinal products from a pharmacokinetic, pharmacodynamic, and pharmacotoxicological point of view.
6.2 transversal competencies: Responsible performance of professional duties, under conditions of limited autonomy and qualified assistance.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the

managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Ensuring and acquiring the basic notions of pharmacology for the biomedical training of the students of the Faculty of Dental Medicine.

7.2 Specific objectives:

Providing the important notions of pharmacodynamics and pharmacotherapy, taking into account the skills of the dentist.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introductory lecture. Basic concepts of pharmacokinetics.	Oral presentation + interactive discussion	-	-	2
2	Basic concepts of pharmacodynamics and pharmacotoxicology.	Oral presentation + interactive discussion	-	-	2
3	Parasympathetic nervous system: parasympathomimetic and parasympatholytic drugs. Sympathetic nervous system: sympathomimetics and sympatholytic drugs.	Oral presentation + interactive discussion	-	-	2
4	Medication of the cardiovascular system. Medicines for high blood pressure.	Oral presentation + interactive discussion	-	-	2
5	Blood medication: hemostatics, antihemorrhagic agents, anticoagulants, antiplatelet medications.	Oral presentation + interactive discussion	-	-	2
6	Pain management (I) - introductory concepts, antipyretic analgesics, opioid analgesics.	Oral presentation + interactive discussion	-	-	2
7	Pain management (II) - non-steroidal anti-inflammatory drugs.	Oral presentation + interactive discussion	-	-	2
8	Pain management (III) - steroid anti-inflammatory drugs. Treatment of trigeminal neuralgia.	Oral presentation + interactive discussion	-	-	2
9	General anesthetics. Local anesthetics.	Oral presentation + interactive discussion	-	-	2
10	Gastrointestinal medication (treatment for peptic ulcer). Allergy medications.	Oral presentation + interactive discussion	-	-	2
11	Antibiotics and antimicrobial chemotherapy.	Oral presentation + interactive discussion	-	-	2
12	Corrective pharmacological measures of super infections with conditionally pathogenic germs. Antibiotic therapy in special groups of patients.	Oral presentation + interactive discussion	-	-	2
13	Hormonal medication (antidiabetic drugs, osteoporosis treatment, contraceptives, thyroid and antithyroid drugs).	Oral presentation + interactive discussion	-	-	2
14	Dental management in the case of some groups of patients at risk: patients on anticoagulant treatment or under treatment with bisphosphonates; pregnancy and breastfeeding.	Oral presentation + interactive discussion	-	-	2

Bibliography

1. Lippincott - Illustrated Reviews. Wolters Kluwer, 2019.
2. Lecture support – pdf format

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Objectives of practical pharmacology activities.	Seminar	-	-	2
2	Pharmacography.	Discussions on given topics (clinical cases, problems).	-	-	2
3	The study of some pharmacokinetic aspects.	Discussions on given topics (clinical cases, problems).	-	-	2
4	The study of some pharmacodynamic aspects.	Discussions on given topics (clinical cases, problems).	-	-	2
5	Study of vegetative nervous system medication.	Discussions on given topics (clinical cases, problems).	-	-	2
6	Medication of the blood and the cardiovascular system in a clinical context.	Discussions on given topics (clinical cases, problems).	-	-	2
7	Pain management.	Discussions on given topics (clinical cases, problems).	-	-	2
8	Local and general anesthetics in a clinical context.	Discussions on given topics (clinical cases, problems).	-	-	2
9	Antiulcer and antiallergic agents in clinical context.	Discussions on given topics (clinical cases, problems).	-	-	2
10	Antibiotics and antimicrobial chemotherapy in a clinical context.	Discussions on given topics (clinical cases, problems).	-	-	2
11	Antimycotic medication in a clinical context.	Discussions on given topics (clinical cases, problems).	-	-	2
12	Clinical cases	Discussions on given topics (clinical cases, problems).	-	-	2
13	Recovery PA	Discussions on given topics (clinical cases, problems).	-	-	2
14	Practical activity exam	Discussions on given topics (clinical cases, problems).	-	-	2

Bibliography

1. Lippincott - Illustrated Reviews. Wolters Kluwer, 2019.
2. Lecture support – pdf format

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Identifying the disease state and establishing the correct diagnosis of the dental condition(s).
 Conservative therapy of odonto-periodontal structures.
 Diagnosis and interceptive therapy of anomalies of the dento-maxillary apparatus.
 Prosthetic restoration of dental arches.
 Identification of diagnostic and evolutionary peculiarities and examination of the patient with surgical conditions in the oro-maxillofacial sphere.
 Management of the theoretical and legislative bases of the operational health systems in Romania as well as the managerial ones regarding the dental practice.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	The ability to use/apply the concepts presented in the lectures in clinical practice.	MCQ/Essay test/ Oral assessment	30
Final evaluation			
- theoretical final exam	Knowledge of all the concepts taught in the lectures.	MCQ	70
- practical final exam	-	-	0
Minimal performance standards: Knowledge of the mechanism of action of drugs, dosage and therapeutic indications.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Jîtcă George	30 minutes after each class.

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Ergonomy			
2.2 Course coordinator: Șef I dr Benedek Csilla			
2.3 Practical activities coordinator(s): Benedek Csilla, Vlasa Alexandru, Buka Imola			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 14		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 2		
- examinations: 7		
- other activities: 7		
3.8 Total hours of individual study: 58		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Videoprojector, calculator (PC)
5.2 for practical activities:
Treatment rooms, dental units, negatoscope

6. Specific competencies acquired

6.1 professional competencies:
Knowledge of the terminology used in dental medicine, the notions of ergonomics and their applicability in dental practice
Acquiring skills to evaluate the work environment, with identification optimization possibilities by applying the notions of ergonomics in dental practice
Identification of risk factors and possible undesired consequences in practice
dentistry

6.2 transversal competencies: Formation of correct work skills in the use of equipment and a the instrumentation for different specific medical interventions Developing teamwork skills Optimum and creative utilization of own potential in collective activities The need for individual study as the basis of personal autonomy and professional development
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Applying the notions of ergonomics in carrying out the activity in the dental office and knowing the possibilities of its optimization
7.2 Specific objectives: Knowing the ergonomic organization criteria of a dental office and their application in the organization of the activity Development of ergonomic evaluation skills of cabinet design, specific dental medical equipment and instruments Knowing how to ergonomically organize the activity in the dental office, in a close partnership with the other members of the team Identification of roles and responsibilities in the doctor-nurse team based on ergonomic principles The organization of the office in relation to the operations to be performed and the particularities of the patients The possibility to carry out some dental medical documents (examination, preliminary impression) as a single doctor and in the 4-handed working version Knowing the risks and consequences of a poorly organized practice from ergonomic point of view

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	1. Ergonomics – definition, purpose, terminology, application directions	Oral presentation and multimedia	-	-	2
2	2. Ergonomic considerations in setting up a dental office	Oral presentation and multimedia	-	-	2
3	3. Ergonomic considerations regarding the endowments of the dental office – equipment, instruments	Oral presentation and multimedia	-	-	2
4	4. Positions and working positions recommended to the dentist and nursing. Patient positioning during dental treatments. Handling dental instruments.	Oral presentation and multimedia	-	-	2
5	5. Organization of the activity in dental medical practice from an ergonomic perspective	Oral presentation and multimedia	-	-	2
6	6. The dynamics of the activity in the doctor-nurse team based on ergonomic principles	Oral presentation and multimedia	-	-	2
7	7. Risk factors and professional effects in dental practice	Oral presentation and multimedia	-	-	2

Bibliography

Bibliography:

1. Lazăr AP, Dako Timea, Lazăr L. Noțiuni de diagnostic în stomatologie. Editura University Press Tg. Mureș, 2022, 184p, ISBN 978-606-581-197-3, cod CNCIS 210.
2. Anghel M. Noțiuni generale de ergonomie dentară. Timișoara: Editura Orizonturi Universitare, Facultative bibliography:
1. Stephen J. Stefanac, Samuel P. Nesbit: Diagnosis and treatment planning in dentistry, Third edition. St. Louis, Missouri : Elsevier, 2017
2. Bukhari Cs, Lazăr L, Buka IZ, Vlasa AI, Szabo I. Oral Diagnosis and Ergonomics notions. Editura University Press Tg. Mureș, 2019

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	1. Presentation of how the office is organized dental and point analysis from an ergonomic point of view of its arrangement	Multimedia presentations, practical demonstrations	-	-	2
2	2. Presentation of the equipment in the dental office	CBL	The material is offered to the students ahead of time, they carry out individual study beforehand	-	2
3	3. The ergonomic position of the doctor in the dental office	Multimedia presentations, practical demonstrations	-	-	2
4	4. The ergonomic position of the doctor in the dental office	Multimedia presentations, practical demonstrations	-	-	2
5	5. Examples and exercises of positioning of the doctor and a the patient in the conditions adopting an ergonomic position	Multimedia presentations, practical demonstrations	-	-	2
6	6. Incorrect positions encountered in dental work - examples and discussions regarding the possible consequences undesirable	Multimedia presentations, practical demonstrations	-	-	2
7	7. Presentation of the instrument Dental	CBL	The material is offered to the students ahead of time, they carry out individual study beforehand	-	2
8	8. Examples and comparative analyzes regarding the design and handling of dental instruments	Multimedia presentations, practical demonstrations	-	-	2
9	9. Examples and exercises of positioning of the doctor and a assistance based on ergonomic principles	Multimedia presentations, practical demonstrations	-	-	2
10	10. Examples regarding the dynamics of the acts dental medicine optimized in terms of ergonomic.	Multimedia presentations, practical demonstrations	-	-	2
11	11. Work exercises with 4 hands in the doctor-nurse team	Multimedia presentations, practical demonstrations	-	-	2
12	12. Work exercises with 4 hands in the doctor-nurse team	Multimedia presentations, practical demonstrations	-	-	2
13	13. Debates regarding the consequences of the activity unergonomic in the activity dentistry	Multimedia presentations, practical demonstrations	-	-	2
14	14. Exercises for prevention and recovery in the case of musculoskeletal conditions (eg carpal tunnel syndrome).	Multimedia presentations, practical demonstrations	-	-	2

Bibliography

Bibliography:

- 1.Lazăr AP, Dako Timea, Lazăr L. Noțiuni de diagnostic în stomatologie. Editura University Press Tg. Mureș, 2022, 184p, ISBN 978-606-581-197-3, cod CNCIS 210.
- 2.Anghel M. Noțiuni generale de ergonomie dentară. Timișoara: Editura Orizonturi Universitare, 2005

Bibliografie facultativă:

1. Stephen J. Stefanac, Samuel P. Nesbit: Diagnosis and treatment planning in dentistry, Third edition. St. Louis, Missouri : Elsevier, 2017
2. Bukhari Cs, Lazăr L, Buka IZ, Vlasa AI, Szabo I. Oral Diagnosis and Ergonomics notions. Editura University Press Tg. Mureș, 2019

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Ergonomics provides information related to the way the dental office is organized (location of furniture, devices, the circuit of the doctor, the patient, the nurse, the circuit of medical instruments).

Based on the accumulated knowledge, the posture of the doctor, nurse and patient is modeled. Thus, the dynamics of performing dental medical acts optimized from an ergonomic point of view will improve the quality of the medical act and the quality of life of those involved.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Attendance at Lp, meeting the minimum level of activity, the qualifications obtained during the CBL sessions	Arithmetic average of the grades obtained when assessing the fulfillment of the evaluation criteria	30
Final evaluation			
- theoretical final exam	The student's ability to apply the acquired knowledge	Practical demonstration	20
- practical final exam	Acquiring knowledge related to aspects general deployment activity in the cabinet of dentistry based the application of the notions of ergonomics	Test	50
Minimal performance standards:			
- The accumulation of more than 2 absences at the course, attracts the non-acceptance of the student to the final exam.			
- The accumulation of more than 2 absences at the LP, attracts the non-acceptance of the student to the final exam. Reasoned absences will be made up according to a schedule established at the discipline level.			
- Evaluation during the semester			
1. At Lp			
Fulfilling the minimum activity scale and obtaining the average 5 in the CBL sessions.			
- Final evaluation			
The minimum passing grade is 5 in both the practical and the theoretical exam.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Benedek Csilla	Marti 10-12

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical psychology			
2.2 Course coordinator: Conf dr Popa Octavian-Cosmin			
2.3 Practical activities coordinator(s):			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 47		
3.9 Total hours: 75		
3.10 Credits: 3		

4. Prerequisites (where applicable)

4.1 curricular: Not applicable
4.2 competency: Not applicable

5. Conditions

5.1 for lectures: Not applicable
5.2 for practical activities: Not applicable

6. Specific competencies acquired

6.1 professional competencies: - Advanced abilities for collecting information from patients, using the clinical intake interview; - Practical knowledge related to the clinical psychological assessment used in different psychological and/or organic diseases; - Basic psychotherapeutic (Cognitive-Behavioral Therapy) skills regarding the treatment of depression, anxiety disorders and personality disorder; - General knowledge for applying mindfulness and relaxations techniques in medical settings.
6.2 transversal competencies: - To identify and establish a correct psycho-diagnosis for psychological disorders; - To develop an interdisciplinary approach for explaining the relations between psychological factors and different psychological and/or organic disorders/diseases.

- To acquire a dialectic perspective used for understanding the etiopathogenesis of many disorders, integrating causes related to psychological factors.

- To acquire communication skills based on humanistic and compassionate attitudes in relation to patients.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: To acquire skills in the field of medical psychology that will be used through the clinical application of different psychological techniques when treating patients.
7.2 Specific objectives: - To understand the specific dysfunctional thinking pattern involved in psychological disorders; - To understand the relationship between thoughts - emotions and behavior in psychological and / or organic disease; - To develop a good capacity to choose an appropriate psychological questionnaire for a specific psychological disorder; - To acquire practical abilities for conducting a clinical psychological interview with a patient.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The importance of medical psychology in the general field of medicine	Oral presentation, PowerPoint presentation	-	Without ICS correlation	2
2	The bio-psycho-social model in medical psychology	Oral presentation, PowerPoint presentation	-	Without ICS correlation	2
3	The relationship between genetics and psychological diseases. The implication of neuroscience in medical psychology	Oral presentation, PowerPoint presentation	-	Without ICS correlation	2
4	Psychological problems involved in mood disorders	Oral presentation, PowerPoint presentation	-	Without ICS correlation	2
5	Anxiety sensitivity. The distress-vulnerability model	Oral presentation, PowerPoint presentation	-	Without ICS correlation	2
6	Somatic and Somatoform psychological issues	TBL	-	Without ICS correlation	2
7	Cognitive-Behavioral Therapy (CBT) for depression, anxiety, and personality disorders. The Beckian approach	Oral presentation, PowerPoint presentation	-	Without ICS correlation	2

Bibliography

1. Popa, O.C., Lee, W., Rus, A.V. (2019) The new approaches and future orientation in medical psychology, Targu-Mures: University Press (in press).
2. Barkan, S.E. (2017). Health, Illness, and Society: An Introduction to Medical Sociology, London: Rowman & Littlefield.
3. Barlow, D., (2014). Clinical Handbook of Psychological Disorders, Fifth Edition: A Step-by-Step Treatment Manual, New York: The Guilford Press.
4. Barlow, D., et al. (2018). Unified Protocol for Transdiagnostic Treatment of Emotional Disorders: Therapist Guide (Treatments That Work), 2nd Edition, Oxford: The Oxford University Press.
5. Beck, J., (2011) Cognitive-Behavior Therapy. Basic and Beyond, 2nd Edition, New York: The Guilford Press.
6. Beck, A.T., Brad, A., A., (2009). Depression: Causes and Treatment, 2nd Edition, Philadelphia: University of Pennsylvania Press.
7. Cockerham, W.C. (2017). Medical Sociology, 14th Edition, New York: Taylor and Francis.
8. Labott, S., (2019). Health Psychology Consultation in the Inpatient Medical Setting, 1st Edition, Washington: American Psychological Association.
9. Morgan, J.E., Ricker, J.H., (2018). Textbook of Clinical Neuropsychology, 2nd Edition, New York: Taylor and Francis.

8.2 Content of seminar, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Overview of main instruments used in medical psychology. The psychological clinical interview	Demonstration, working in small groups	-	Without ICS correlation	2
2	Psychological clinical interview based on the bio-psycho-social model	Demonstration, working in small groups	-	Without ICS correlation	2
3	Clinical practical applications of neuroscience in medical psychology	Demonstration, video presentation, working in small groups	-	Without ICS correlation	2
4	The clinical assessment of psychological mood disorders	Applications and demonstration with students, working in small groups	-	Without ICS correlation	2
5	The clinical assessment of anxiety sensitivity and distress	Applications and demonstration with students, working in small groups	-	Without ICS correlation	2
6	The clinical assessment of somatoform and somatic psychological issues	Applications and demonstration with students, working in small groups	-	Without ICS correlation	2
7	Cognitive-behavioral therapy techniques used with patients with depression, anxiety and personality disorders	Demonstration with students, working in pairs of two students	-	Without ICS correlation	2

Bibliography

1. Popa, O.C., Lee, W., Rus, A.V. (2020) New approaches behavioral sciences, Tirgu-Mures:University Press.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The complexity of challenges and interdisciplinary nature of medical field assumes that doctors acquire a high level of theoretical and practical skills. Also, these abilities must be completed with knowledge from medical psychology for a good understanding of sanogenesis and pathogenesis factors involved in health and disease.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Comprehension of specialized information	TBL session	10
- practical activities	Applications of medical psychology	Project	20
Final evaluation			
- theoretical final exam	The acquisition of knowledge in the field of medical psychology	Multiple choice test/ final theoretical project	40
- practical final exam	Understanding and applying medical psychology	Role-play/ final practical project	30

Minimal performance standards:

The examination will take place at the end of each semester, during the pre-examination period. The final grade will be calculated with the above formula. To participate at the final exam (theoretical and practical), students must meet the attendance requirements at lectures/ practical activities. Also, the students must understand and apply the specific methods of medical psychology, arguing each case logically, coherently and correctly.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Popa Octavian-Cosmin

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: -
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physical education			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Lect dr Steff Zakarias			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Șef I dr Țurcanu Dana-Simona			
2.4 Year of study: II	2.5 Semester: 1-2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per year of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 0	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 0		
3.9 Total hours: 56		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.1 curricular:
good health - harmonious physical development - adequate physical qualities
4.2 competency:
4.2 competency:
Knowledge of techniques learned in high school to develop body strength and physical qualities. - practice of sports (competitive/leisure)

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
5.2 for practical activities:
Sport gym, fitness gym, tennis courts, outdoor, swimming pool, football court

6. Specific competencies acquired

6.1 professional competencies:
6.1 professional competencies:
- Making use of the information, methods and means specific to physical education and sports in order to optimize health and harmonious physical development
- Building the skill of knowledge transmission referring to exercises to develop basic physical skills, qualities and

muscle usage - Application of specific methods to develop physical qualities
6.2 transversal competencies: 6.2 transversal competencies: - Application of rule systems specific to the organization and practice of physical education and sports, as well as acquisition and application of adequate behavior in interpersonal relations and in groups - Using body language to express and understand ideas, feelings, general and physical aesthetics of the body - Using electronic means to select information regarding elements that are characteristic to physical development - Active integration into various groups
6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: 7.1 General objective: Systemic and organized practice of physical exercise and favored sports
7.2 Specific objectives: 7.2 Specific objectives: 1) Continuous improvement of healthy condition, physical and mental vigour and harmonious body development ; 2) Raising of the general motricity level and aquirement of basical sport skills; 3) Participating at interuniversity's competitions

8.1 Content of laboratory, semester 1-2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
The first semester					
1	Introductory lesson ; the requirements of a Physical Education class	explication, demonstration, repetition	-	-	2
2	Athletics – the school of running	explication, demonstration, repetition	-	-	2
3	Basketball – checking the initial level of acquiring the basic elements	explication, demonstration, repetition	-	-	2
4	Volleyball - checking the initial level of acquiring the basic elements	explication, demonstration, repetition	-	-	2
5	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
6	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
7	Basketball – repeating the elements of moving in the court	explication, demonstration, repetition	-	-	2
8	Athletics – developing leg strength with different jumping exercises	explication, demonstration, repetition	-	-	2
9	Basketball - repeat the dribbling, ball catching and passing	explication, demonstration, repetition	-	-	2
10	Swimming – teaching the basic elements	explication, demonstration, repetition	-	-	2
11	Aquagym	explication, demonstration, repetition	-	-	2
12	The testing contain two tests which targets the physically skills, as long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extension during 30 sec.), speed running on 30m or the swimming test which means to	activity evaluation	-	-	2

	swimm 25m pool length in one of the 4 main events of swimming				
13	Testing the students who where absent at the tests	activity evaluation	-	-	2
14	End of school year, conclusion of the school report; recommendations for the sporting activity during the holidays.	conclusion	-	-	2

Bibliography

1. Badau D., Tanase T. → Volei, teorie si metodica, Ed. OMNIA, Brasov, 2006
2. Carstea G. → Teoria si metodica educatiei fizice, Ed. An→Da, Bucuresti, 2000
3. Hantiu I. → Teoria educatiei fizice si sportului, note de curs, Univ. Oradea, 2012
4. Macovei S. → Stretching, Ed AFIS, Bucuresti, 2012
5. Neagu N → Teoria si practica activitati motrice umane, Ed. University Press, Tg. Mures, 2010
6. Filipescu, D., Gherghișan, D., Bologa, M., → Educație fizică în învățământul superior medical, Editura UMF, 2001
7. Badau D. → Metodica disciplinei sportive → handbal, Ed. Universitatii Transilvania din Brasov, 2009
8. Badau A, Ungur R, Badau D. – Activitatile fizice acvatice indoor, Ed, Universitatii Transilvania Brasov, 2016

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Development of the capacity to choose healthy life-style, by practicing sports, combining physical exercise with intellectual efforts, motion and rest, work and leisure.
- Availability to practice physical exercise independently
- Constant interest in sports as a phenomenon

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	the attendance on the lessons - control test of the 1st semester - control test for 2nd semester	Total attendances for the both of semester -finish all the control tests -effectuate two essay one in each semester for the students those exempt from physical education	100
Final evaluation			
- theoretical final exam	-	-	0
- practical final exam	Minimal performance standards: 1. Assist for at least 70% of the lessons, that means 20 attendances/year (including the exempted students) 2. The final examination contains 2 motor tests, at the student choice, as follow: long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extention during 30 sec.), speed running on 30m or the swimming test which means to swimm 25m pool length in one of the 4 main events of swimming. For the students who are exempted from effort, they need to realize a paperwork on the final of the semester, in domain of physical education, theme which is chosen by the own teacher. (they don't need to go to the physically tests.)	Total attendances for the both of semester -finish all the control tests -effectuate two essay one in each semester for the students those exempt from physical education	0

Minimal performance standards:

1. Assist for at least 70% of the lessons, that means 20 attendances/year (including the exempted students)
2. The final examination contains 2 motor tests, at the student choice, as follow: long jump from standing position, testing the force of the abdominal strength (sit ups during 30 sec.), testing the back muscle strength (back extention during 30 sec.), speed running on 30m or the swimming test which means to swimm 25m pool length in one of the 4 main events of swimming.
For the students who are exempted from effort, they need to realize a paperwork on the final of the semester, in domain of physical education, theme which is chosen by the own teacher. (they don't need to go to the physically tests.)

11. Appointment timetable (for students)

Lect dr Steff Zakarias	Luni 18-19
Şef I dr Țurcanu Dana-Simona	Miercuri, de la 10 - 12, sala Pongratz

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Romanian language			
2.2 Course coordinator: -			
2.3 Practical activities coordinator(s): Lect dr Lakó Cristian			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture:	3.3 practical activities: 4
3.4 Total hours in curriculum: 28	3.5 lectures: 0	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 2		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Romanian language (1)
4.2 competency: Romanian Language - A2

5. Conditions

5.1 for lectures: -
5.2 for practical activities: manual

6. Specific competencies acquired

6.1 professional competencies: Studentul va prezenta, la nivel începător-intermediar (A2), următoarele abilități: -citirea corectă și fluentă, precum și înțelegerea conținutului și ideilor generale ale unui text simplu -înțelegerea mesajelor receptate pe cale auditivă -vorbirea cu respectarea regulilor gramaticale și de pronunție -cunoașterea și utilizarea corectă a unui vocabular de bază și semi-specializat
6.2 transversal competencies: Utilizarea limbii române ca mijloc de comunicare cu alți vorbitori ai acelei limbi, în situații generale și specifice
6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Cunoașterea limbii române la nivel mediu pentru a putea înțelege mesajul unui text scris sau audiat.
7.2 Specific objectives: La finalul cursului, studentul va prezenta abilități de comunicare, formulare de întrebări și răspunsuri pe teme precum: prezentare, casa, ocupație, interese, familie, pregătindu-se pentru introducerea limbajului specializat.

8.1 Content of seminar, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Alfabetul, particularitati ale scrierii in limba romana - Recapitulare	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
2	Casa, încăperi, mobilier, activități	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
3	Activități pentru timpul liber în România	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
4	Mâncăruri și băuturi din România	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
5	La cumpărături	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
6	Vacanțe in România	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4
7	O zi din viața mea in România	Comunicare și relaționare interpersonală, conversație, explicații; PBL; TBL	-	-	4

Bibliography

1. Bălănescu, Olga, Limba română pentru străini, Editura Ariadna, București, 2006
2. Dafinoiu, C.V., Pascale, L.E., Limba română - manual pentru studenții străini, Ed. Univ. București, 2015
- Hedeșan, Otilia (coordonator), Jebelean, Elena, Leucutia Florentina, Musat, Nicoleta, Percec, Dana, Popa, Corina Bun venit in România! Manual de limba română și de orientare culturală, Imprimeria MIRTON, Timișoara, 2008
3. Kohn, Daniela, Puls. Manual de limba română pentru străini. Curs A1-A2, Polirom, Iași, 2009
4. Geană, Ionuț, Limba română pentru străini, Editura Univers, București, 2014
5. Mandelbrojt-Sweeney, M., Limba engleză pentru medici și asistente, Polirom, București, 2006
6. Platon, Elena, Sonea, Ioana, Vilcu, Dina Manual de limba română ca limbă străină (RLS), Casa Cărții de Știință, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

representatives, professional associations and representative employers in the domain Conținutul disciplinei este coroborat cu necesitatea angajatorilor din domeniile de sănătate, management sanitar, învățământ medical, firme de produse stomatologice, cercetare în medicină dentară

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, raspuns la intrebari, dialog	30
Final evaluation			
- theoretical final exam	Abilitatea de a intelege si completa exercitii de multiple choice, potrivire, folosirea corecta a numarului, articolului verbelor invatate	Test scris care cuprinde exercitii de vocabular si gramatica	40

- practical final exam	Abilitățile de citire, vorbire, receptarea și transmiterea de mesaje pe cale orală	Verificare orală - extragerea unui bilet care cuprinde citirea unui text, raspuns la intrebari, dialog	30
Minimal performance standards: Să se poată prezenta, să răspundă la întrebări legate de familie, casă, interese, timp, să poată formula întrebări și cere informații folosind un vocabular de bază, o pronunție clară și fără greșeli mari la nivelul organizării discursului și al folosirii structurilor gramaticale necesare comunicării.			

11. Appointment timetable (for students)

Lect dr Lakó Cristian	30 de minute după fiecare curs / activitate practică

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: -
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Advanced digital skills			
2.2 Course coordinator: Prof dr Enăchescu Călin			
2.3 Practical activities coordinator(s): Prof dr Enăchescu Călin			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: -
4.2 competency: knowledge of PC use, knowledge of Internet use

5. Conditions

5.1 for lectures: classroom with video projector and Internet
5.2 for practical activities: classroom with video projector and Internet

6. Specific competencies acquired

6.1 professional competencies: Elaboration and communication of plans and projects in the field of ensuring cyber security. Identifying cyber security dimensions. The use of cyber security techniques, mechanisms and procedures for the protection of personal and organizational data.
6.2 transversal competencies: Optimum management of professional tasks and learning to execute them on time, rigorously, efficiently and responsibly; Compliance with ethical rules specific to the field (eg: confidentiality) Application of team communication techniques; the development of empathic interpersonal communication skills and the assumption of specific roles in teamwork with the aim of making the group's activity more efficient and saving resources, including human resources

Identifying and using effective learning methods and techniques; awareness of the extrinsic and intrinsic motivations of continuous learning.

6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The discipline underpins the field of cyber security – terminology, threats, vulnerabilities, risks, cyber attacks, protection and response measures to IT security incidents, disaster recovery measures.

Through the topics covered, the course raises the degree of preparation and awareness of students in the field of the urgent need to protect data, services and systems in the context of the Security by Design paradigm.

7.2 Specific objectives:

After completing the assignments, students will be able to understand the fundamental concepts of cyber security in the context of an increasingly digitized society.

The content is focused on the concrete presentation of the main topics in the field of cyber security adapted to the requirements necessary to protect data, IT systems and services, and the appropriate tools for developing cyber resilience capacities and increasing the level of culture in the field of cyber security.

Students will understand the risks related to the processing and storage of data in a virtual environment, the risks of using the Internet and interconnected computing systems, and will be able to identify and choose methods and mechanisms that provide an adequate degree of protection of personal IT data, systems and services and organizational.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to Cyber Security. The need for cyber security. Domains of cyber security.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
2	Protection of data and personal privacy. Organizational protection. Behavioral approach to cyber security. Programmatic approach to cyber security.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
3	Dimensions of cyber security. The CIA Triad (Confidentiality, Integrity, Availability). Cyber security guarantees.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
4	Cyber Threats, Vulnerabilities and Attacks – Concepts, Mechanisms and Techniques. Countermeasures against cyber threats. Understanding reactive, proactive and operational security.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
5	Data encryption as a mechanism to provide data privacy. Access control. Data masking as a data security and protection mechanism.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
6	Data integrity. Types of data integrity checks.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
7	Availability of IT systems and services (The Five Nines concept). Responding to IT security incidents. Disaster recovery.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation /	-	-	2

	conversation, case studies, dissemination of results)			
Bibliography 1. Augenbaum S., The Secret to Cybersecurity: A Simple Plan to Protect Your Family and Business from Cybercrime, Forefront Books, 2019. 2. Cisco Networking Academy, Cybersecurity Essentials, v1.1, https://www.netacad.com . 3. Evans L., Cybersecurity: What You Need to Know About Computer and Cyber Security, Social Engineering, The Internet of Things + An Essential Guide to Ethical Hacking for Beginners, Independently published, 2019. 4. Evans L., Cybersecurity: An Essential Guide to Computer and Cyber Security for Beginners, Including Ethical Hacking, Risk Assessment, Social Engineering, Attack and Defense Strategies, and Cyberwarfare, Independently published, 2018. 5. Kennedy G., Data Privacy Law: A Practical Guide to the GDPR, Bowker, 2019. 6. Stallings W., Cryptography and Network Security: Principles and Practice, 8th Edition, Pearson, 2020.				

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Identification of security risks and threats at personal and organizational level. The concept of exploit.	Project-based learning (exposure / description of the project problem, project management, parameterization of input data, examples, demonstrations and practical solutions, dissemination, analysis and collaborative interpretation of results)	-	-	2
2	Types of attack. Analysis of a cyber attack.	Project-based learning (exposure / description of the project problem, project management, parameterization of input data, examples, demonstrations and practical solutions, dissemination, analysis and collaborative interpretation of results)	-	-	2
3	Penetration testing and vulnerability scanning – methods of protecting and evaluating the security of an IT system / service / application or a communications infrastructure.	Project-based learning (exposure / description of the project problem, project management, parameterization of input data, examples, demonstrations and practical solutions, dissemination, analysis and collaborative interpretation of results)	-	-	2
4	Symmetric and asymmetric encryption mechanisms. Digital data integrity. Infrastructures based on public keys.	Project-based learning (exposure / description of the project problem, project management, parameterization of input data, examples, demonstrations and practical solutions, dissemination, analysis and collaborative interpretation of results)	-	-	2
5	IT security incident response methods and procedures.	Project-based learning (exposure / description of the project problem, project management, parameterization of input data, examples, demonstrations and practical solutions, dissemination, analysis and collaborative interpretation of results)	-	-	2
6	Practical implementation of a set of security procedures and policies at personal and organizational level.	Project-based learning (exposure / description of the project problem, project management, parameterization of input data, examples, demonstrations and practical solutions, dissemination, analysis and collaborative interpretation of results)	-	-	2
7	Security by Design – designing and implementing an IT security system architecture.	Project-based learning (exposure / description of the project problem, project management, parameterization of input data, examples, demonstrations and practical solutions, dissemination, analysis and collaborative interpretation of results)	-	-	2

Bibliography 1. Cisco Networking Academy, Cybersecurity Essentials, v1.1, https://www.netacad.com . 2. Clark K., Hacking, The Ultimate Comprehensive Step-By-Step Guide to the Basics of Ethical Hacking, 2019. 3. Neil I., CompTIA Security+ Certification Guide: Master IT security essentials and exam topics for CompTIA Security+ SY0-501 certification, Packt Publishing, 2018. 4. Pillay R., Learn Penetration Testing: Understand the art of penetration testing and develop your white				

hacker skills, Packt Publishing, 2019.

5. Stallings W., Cryptography and Network Security: Principles and Practice, 7th Edition, Pearson, 2016.

6. Walker M., CEH Certified Ethical Hacker All-in-One Exam Guide, Fourth Edition, 4th Edition, McGraw-Hill Education, 2019.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Corroboration of the contents of the discipline with the expectations of community representatives, professional associations and representative employers in the field related to the program:

Today's society has become totally dependent on technology, and especially on managing data in digital format. The role of cyber security, both for individuals and organizations, regardless of their business, is vital for data protection and for guaranteeing the functioning of IT services, systems and infrastructures. The inclusion of security procedures and policies within professional activities is no longer an end in itself, but an objective necessity. For this reason, the discipline is structured in a practical and pragmatic way to respond to these realities. Moreover, the entry into force of the GDPR legislation imposes strict measures regarding the protection of personal data in the European Union space, which determines the obligation of digital culturalization in the field of cyber security of every employee in every organization / company. In this context, the topics studied provide the set of information necessary for the understanding and application of the protection mechanisms of digital data and IT infrastructures.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Formative assessment to verify preparation throughout the semester. The ability to analyze and synthesize	TBL testing	30
- practical activities	Acquiring and understanding the treated issue	written test	50
Final evaluation			
- theoretical final exam	Summative evaluation to verify the preparation and understanding of the course topic. Knowledge of fundamental notions and concepts.	written test	20
- practical final exam	-	-	0
Minimal performance standards:			
- Knowledge of the concepts, mechanisms and techniques that underpin the field of cyber security.			
- Identifying the dimensions of cyber security.			
- Designing basic sets of security procedures and policies at personal and organizational level.			
- A minimum grade of 5 must be obtained for each evaluation and each exam.			

11. Appointment timetable (for students)

Prof dr Enăchescu Călin	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: How to read and publish statistical results in medical research			
2.2 Course coordinator: Conf dr Olah Peter			
2.3 Practical activities coordinator(s): Conf dr Olah Peter			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 4		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 1		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 39		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
• The student will need to demonstrate the ability to organize and graph numerical and non-numerical data in a scientific study or experiment.
• Demonstrating the ability to understand and present the statistical protocol in the Material and Method section of a scientific article
• Demonstrating the ability to present the statistical results in the Results section of a scientific article and to interpret these results in the Discussions, respectively Conclusions sections of the article
6.2 transversal competencies:
• Ability to critically evaluate the presentation of the statistical protocol and of the results in biomedical scientific articles

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

• In the current context of evidence-based medicine, Biostatistics has become one of the essential work tools for the practitioner or researcher in the biomedical field. The volume of specialized literature is constantly growing, and the selection of relevant information in this context is becoming more and more challenging. As such, the main objective of this discipline is to develop students' skills to critically read specialized literature and to eloquently publish the results of their own research, from the point of view of statistical protocols and statistical results.

7.2 Specific objectives:

- Developing students' ability to graphically represent numerical and non-numerical data, as well as to interpret such representations published in specialized literature
- Developing students' ability to present the statistical protocol used in the Material and Method section of a scientific article
- Developing students' ability to present the statistical results obtained in the Results section of a scientific article.
- Developing the students' ability to present the conclusions reached based on the statistical results in a scientific article

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Data types. Data organization. Primary data. Indexed data. Contingency tables.	Oral presentation, Powerpoint presentation, Video materials	-	Biological variability	2
2	Graphic representation of numerical and non-numerical data	Oral presentation, Powerpoint presentation, Video materials	-	-	2
3	Presentation of the statistical protocol in the Material and Method section of a scientific article	Oral presentation, Powerpoint presentation, Video materials	-	-	2
4	Presentation of statistical results in the Results section of a scientific article.	Oral presentation, Powerpoint presentation, Video materials	-	-	2
5	Presentation of conclusions based on statistical results in the card of a scientific article	Oral presentation, Powerpoint presentation, Video materials	-	Clinical trials	2
6	Correlations and regressions. The correlation coefficient. The coefficient of determination. Linear and non-linear regressions. Their importance in the biomedical field.	Oral presentation, Powerpoint presentation, Video materials	-	Clinical trials	2
7	VERIFICATION of accumulated theoretical knowledge	Grid test with Multiple Choice Questions	-	-	2

Bibliography

1. Bacărea Vladimir, Ghiga Dana, Mărușteru Marius, Oláh Péter, Petrișor Marius - A Primer in Research Methodology and Biostatistics, University Press Targu Mures, 2014
2. Motulsky Harvey, Intuitive Biostatistics: A Nonmathematical Guide to Statistical Thinking, Oxford University Press, 2013

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Organization of data for their statistical processing. Primary data. Indexed data. Table calculation. Contingency tables.	Practical demonstrations. Synchronous eLearning methods. Collaborative activities in independent small groups	-	Biological variability	2
2	Graphic representation of numerical and non-numerical data	Practical demonstrations. Synchronous eLearning methods. Collaborative activities in independent small groups	-	-	2
3	Presentation of the statistical protocol in the Material and Method section of a scientific article	Practical demonstrations. Synchronous eLearning methods. Collaborative activities in independent small groups	-	-	2
4	Presentation of statistical results in the Results section of a scientific article.	Practical demonstrations. Synchronous eLearning methods. Collaborative activities in independent small groups	-	-	2
5	Presentation of conclusions based on statistical results in the card of a scientific article	Practical demonstrations. Synchronous eLearning methods. Collaborative activities in independent small groups	-	Clinical trials	2
6	Correlations and regressions. The correlation coefficient. The coefficient of determination. Linear and non-linear regressions. Their importance in the biomedical field.	Practical demonstrations. Synchronous eLearning methods. Collaborative activities in independent small groups	-	Clinical trials	2
7	TESTING individual ability to manipulate and represent data using MS Office 365 – Excel	Students will individually perform a set of specific tasks using MS Office 365 Excel. The performance will be graded.	-	-	2

Bibliography

1. Oláh Péter, Avram Călin, Mărușteri Marius, INTRODUCTION TO BIOSTATISTICS - Practical Applications, University Press Targu-Mures, 2016

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Adequate acquisition of the mentioned curricular content provides the student with the theoretical and practical framework for the critical reading of scientific articles in the biomedical field, as well as basic skills to correctly and eloquently present the protocols and results obtained in their own studies and research.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Understanding and integration of all theoretical concepts Knowledge of bibliographical references	Multiple choice test	100
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	-	-	0
- practical final exam	-	-	0
Minimal performance standards:			
- The ability to organize and represent relevant data according to the needs of a scientific study or experiment - The ability to correctly present the statistical protocol and its results in a scientific article - The ability to formulate correct and pertinent conclusions based on statistical results			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Olah Peter	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Historical impact of drug discoveries			
2.2 Course coordinator: Șef I dr Bán Érika-Gyöngyi			
2.3 Practical activities coordinator(s): Asist.Univ.Dr. Dho-Nagy Eszter-Anna			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 0		
- supplemental documentation at the library, from specialized information portals and in the field: 11		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 0		
- other activities: 11		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
According to the Internal rules and Regulations of the D.of Pharmacology and Clinical Pharmacology
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
The interesting historical influences caused by certain drug discoveries
6.2 transversal competencies:
Correlation between the medical use of medications and the effects behind
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Understanding the impact of pharmacological drug discoveries on the world's history
7.2 Specific objectives: Correlation between the use of a medicine and the effects observed in the population

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The history of medicine shaped by drugs. Strong active substances in plants – common and famous poisonings.	MS Power Point, Case based interactive discussions	-	Drug reactions	2
2	. The art of discovery in medicine – penicillin and five more	MS Power Point, Case based interactive discussions	-	Drug reactions	2
3	The modern drug discovery cycle. Drug discovery in America: story of curare and others	MS Power Point, Case based interactive discussions	-	Drug reactions	2
4	The use of placebo in medicine. . James Lind and the citrus fruits in scurvy therapy	MS Power Point, Case based interactive discussions	-	Drug reactions	2
5	The opium war. Drug discovery in ancient Asia: India and Tibet	MS Power Point, Case based interactive discussions	-	Drug reactions	2
6	The “PILL”. Drug discovery in Europe: German and Greek traditional medicine	MS Power Point, Case based interactive discussions	-	Drug reactions	2
7	Clinical trials – then and now Regulatory affairs of drug discovery: US and Canada, UK, EU and Japan	MS Power Point, Case based interactive discussions	-	Drug reactions	2

Bibliography

Bibliografie: 1. Thomas Hager - Ten Drugs; Abrams Press; 2019

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	-	-	-	-	2
2	-	-	-	-	2
3	-	-	-	-	2
4	-	-	-	-	2
5	-	-	-	-	2
6	-	-	-	-	2
7	-	-	-	-	2

Bibliography

Bibliografie: 1. Thomas Hager - Ten Drugs; Abrams Press; 2019

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Project presentation	Oral presentation	50
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Knowledge regarding the overview of pharmacological implications of drug discovery	Written assignment/Oral exam	50

- practical final exam	-	-	0
Minimal performance standards: Passing grade: 5.00			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Bán Érika-Gyöngyi	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M4
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Tobaccology			
2.2 Course coordinator: Șef I dr Germán-Salló Márta			
2.3 Practical activities coordinator(s): Șef I dr Germán-Salló Márta, asistent universitar dr. Preg Zoltán, asistent universitar dr. Pál Tünde			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
mod de organizare frontal sau în condiții epidemiologice nefavorabile online
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Awareness of the fact that smoking is a chronic disease for which there are effective methods of treatment.
Assessment/diagnosis of tobacco consumption and tobacco dependence
Organizing the documentation of the smoking status in the medical records
Delivering the minimal intervention counseling of persons assisted smoker
Proper use of the available resources in anti-smoking counseling (specialized anti-smoking centers, quitline)
6.2 transversal competencies:
Awareness of the role of the physician in smoking prevention and in the prevention for smoking related diseases
Organizing a smoking prevention programs
Acquiring knowledge about the psychology of lifestyle change

Awareness of bio-psycho-social consequences of a widespread disease
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Correct diagnosis and treatment of the tobacco dependence disease
7.2 Specific objectives: Recognition and measurement of nicotine dependence Motivation for smoking cessation Delivering the brief anti smoking advice Knowledge of non-pharmacological and pharmacological methods for the treatment of nicotine dependence Realizing the role of the physician in anti-smoking efforts

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	History of tobacco use. Information on smoking prevalence and trends of consumption indicators worldwide, at European and national levels. Psychosocial causes of smoking. The economical aspects of smoking.	prezentare multimedia	-	-	2
2	Informations on the health consequences of tobacco smoking. Chemical composition of tobacco smoke. Causal role of smoking in respiratory diseases, cardiovascular diseases, tumors, hematological, gynecological diseases. Effects of smoking in pregnancy. Environmental effects of smoking . Social and economic impact of smoking	prezentare multimedia	-	durere în piept, dispnee, patologii cardiace ischemice	2
3	Recognition of tobacco use and dependence in general practice. Tobacco addiction industrial spread disease. The mechanism of tobacco dependence. The natural history of tobacco dependence Fagerstrom Test for the evaluation of dependence level. Clinical diagnosis of tobacco dependence (carbon monoxide, cotinine, using biomarkers)	prezentare multimedia	-	-	2
4	Smoking cessation. Therapeutic education. Behavioural support. Smoking cessation motivation. Brief advice on stopping tobacco use. Prevention of relapse.	prezentare multimedia	-	-	2
5	The role of the physician in tobacco control Cognitive - behavioral treatment of tobacco dependence. Nicotine replacement therapy (mechanism of action, clinical evidence of efficacy, indications, prescribing instructions, contraindications, adverse effects) treatment with bupropion, varenicline, Nonpharmacological interventions for smoking cessation	prezentare multimedia	-	-	2
6	Treatments recommended in special circumstances. Treatments recommended for pregnant women, under 18 years, Recommendations for smokers with respiratory and cardiovascular diseases, cancer or other comorbidities Recommendations for the prevention and management of weight gain following smoking cessation. Recommendations for preventing relapse. Group counseling for quitting smoking	prezentare multimedia	-	-	2
7	Smoking prevention at the population level. National tobacco control legislation. MPOWER strategy for global tobacco control. Governmental and non governmental institutions specialized in tobacco control	prezentare multimedia	-	-	2

Bibliography 2018 European Network for Smoking and Tobacco Prevention (ENSP) European Smoking cessation guidelines 2016 http://elearning-ensp.eu/assets/English%20version.pdf ENSP Allen Carr's Easy Way To Stop Smoking

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Cauzele psihosociale ale fumatului. Aspectele economice ale fumatului	CBL	-	Abuz de substanțe Reacții medicamentoase	2
2	Efectele fumatului asupra sistemului respirator, cardiovascular, bolile tumorale, tinale, hematologice, ginecologice	CBL	-	Patologie pulmonară cronică. Carcinom bronșic. Carcinom cervical / uterin / ovarian. Carcinom de colon și rect. Carcinom renal și al vezicii urinare. Carcinom esofagian. Carcinom pancreatic. Carcinom gastric	2
3	Istoricul natural al dependenței de tutun. Testul Fagerstrom. Diagnosticul clinic al dependenței de tutun, (monoxidul de carbon, cotinina, utilizarea biomarkerilor	CBL	-	Abuz de substanțe Reacții medicamentoase	2
4	Educația terapeutică. Terapie cognitiv comportamentală, Analiza încercărilor anterioare de renunțare la fumat	CBL	-	Abuz de substanțe Reacții medicamentoase	2
5	Terapia de substituție nicotinică, (mecanism de acțiune, dovezi clinice ale eficacității, indicații, instrucțiuni de prescriere, contraindicații, efecte adverse) tratamentul cu bupropion, vareniclină, Terapie nonfarmacologică	CBL	-	Reacții medicamentoase	2
6	Recomandări de tratament pentru prevenirea recidivei, Consilierea de grup pentru renunțarea la fumat	CBL	-	Abuz de substanțe Reacții medicamentoase	2
7	Programe naționale anti fumat. Strategia MPOWER pentru controlul fumatului la nivel mondial.	CBL	-	Abuz de substanțe Reacții medicamentoase	2

Bibliography

2018 European Network for Smoking and Tobacco Prevention (ENSP) European Smoking cessation guidelines 2016

<http://elearning-ensp.eu/assets/English%20version.pdf> ENSP

Allen Carr's Easy Way To Stop Smoking

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Curricula disciplinei este alcătuită conform Standardelor europene de acreditare a serviciilor și programelor de formare profesională publicate în Ghidul European pentru renunțare la fumat redactat de ENSP European Network for Smoking and Tobacco Prevention

Course curriculum is designed according to the recommendations drafted in the European Standards for accreditation of training programs and services published European Guidelines for smoking cessation

ENSP(European Network for Smoking and Tobacco Prevention)

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Înșușirea cunoștințelor de bază și capacitatea de a corela conceptele teoretice însușite	test grilă, multiple choice	100
- practical final exam	-	-	0

Minimal performance standards:

Nota minimă de trecere 5 minima grade

Tobacco epidemic in Europe and the world;

Factors that lead to tobacco use;

Pharmacological basis of tobacco dependence;
 Health dangers of tobacco;
 Other consequences(economic, environmental ..)of tobacco smoking;
 Approaches to tobacco control;
 The role of the physician in tobacco control;
 Delivering the brief anti smoking intervention
 Assessment of smoking status
 Analysis of previous attempts a patient smoking cessation
 Motivating smoking cessation in a clinical context
 Knowledge of support services for smokers functional in Romania
 Knowledge of the indications and contraindications for the treatment of smoking addiction medications
 Knowledge of global strategies to control smoking
 Tobacco control legislation

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Germán-Salló Márta

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Applied linguistics and communication skills in Romanian language			
2.2 Course coordinator: Lect dr Năznea Adrian			
2.3 Practical activities coordinator(s): nu este			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 0		
- examinations: 0		
- other activities: 1		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
sală dotată cu echipamente multimedia
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
La sfarsitul cursurilor, studentul va putea sa:
-foloseasca functiile specifice limbajului de specialitate (sa adreseze intrebari, formuleze opinii, sfaturi, sa convinga,
sa explice, sa descrie situatii concrete specifice domeniului medicina dentara)
-citeasca fluent si corect si sa inteleaga continutul unor texte de specialitate de dificultate medie/ avansata
-sa inteleaga mesaje receptate pe cale auditiva legate de sfera profesionala
-sa vorbeasca fluent si corect, folosind un vocabular variat si adecvat unor situatii specifice domeniului
-sa scrie corect, conform regulilor gramaticale, folosind un stil si un vocabular adecvat continutului de idei
-sa utilizeze un vocabular variat de termeni din domeniul de specialitate.

6.2 transversal competencies: Studentul va putea să: -utilizeze limba română ca mijloc de comunicare cu alți vorbitori ai aceleiași limbi în situații din domeniul medicinei dentare; - facă prezentări orale; - se documenteze și să structureze informații, să sintetizeze date obținute prin chestionare administrate unui grup țintă pentru pregătirea și elaborarea de lucrări în domeniu, participarea la stagii; - se familiarizeze cu utilizarea unor platforme de comunicare virtuală și munca în grup.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Cunoașterea limbii române la nivel avansat.
7.2 Specific objectives: Dezvoltarea celor patru abilități de bază: citirea, înțelegerea mesajelor receptate pe cale auditivă, comunicarea verbală, comunicarea scrisă precum și familiarizarea cu vocabularul din domeniul de specialitate.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introducere în terminologia medicinei generale 1. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
2	Introducere în terminologia medicinei generale 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
3	Introducere în terminologia medicinei dentare 1. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
4	Introducere în terminologia medicinei dentare 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
5	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice	-	nu este cazul	2

	interviul 1. Comunicare și vocabular	corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea			
6	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și interviul 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
7	Bolile dinților. Boli parodontale. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2

Bibliography
Butiurcă, Doina, 2009, Fundamentele greco-latine ale terminologiei medicale, Revista Limba Română, Nr. 11-12
Frînculescu, Iulia Cristina, 2009, Limbajul medical românesc în sincronie și diacronie, Revista UNITERM, nr.7/
2009
Melnic V., 2003 , Mijloace de formare a terminologiei clinice medicale in limba romana, Revista Limba română, Nr.
2-3, anul XIII
Rusu, Valeriu, 1983 Mic dicționar medical, vol. I, II, Iași
Ursa A., Marcean, N., 2018, Limba română medicală. Româna pentru obiective specifice, Limes

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introducere în terminologia medicinii generale 1. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
2	Introducere în terminologia medicinii generale 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
3	Introducere în terminologia medicinii dentare 1. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
4	Introducere în terminologia medicinii dentare 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2

5	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și interviul 1. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
6	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și interviul 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
7	Bolile dinților. Boli parodontale. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
Bibliography Butiurcă, Doina, 2009, Fundamentele greco-latine ale terminologiei medicale, Revista Limba Română, Nr. 11-12 Frînculescu, Iulia Cristina, 2009, Limbajul medical românesc în sincronie și diacronie, Revista UNITERM, nr.7/ 2009 Melnic V., 2003 , Mijloace de formare a terminologiei clinice medicale in limba romana, Revista Limba română, Nr. 2-3, anul XIII Rusu, Valeriu, 1983 Mic dicționar medical, vol. I, II, Iași Ursa A., Marcean, N., 2018, Limba română medicală. Româna pentru obiective specifice, Limes					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Corectitudinea structurilor folosite - Complexitatea limbajului - Adecvarea la registru, nivel de formalitate specifice situației	Întrebări cu complement multiplu, formare de cuvinte, potrivire de cuvinte, completare de spații	100
- practical final exam	-	-	0
Minimal performance standards: Să poată interacționa cu pacientul în conducerea interviului medical, să știe să adreseze întrebări referitoare la anamneză, să poată oferi explicații, recomandări simple; să citească și să înțeleagă ideile principale ale unui text sau mesaj audio, să poată răspunde la întrebări pe baza lor fără greșeli mari la nivelul organizării discursului, să cunoască un număr satisfăcător de termeni specifici domeniului.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Lect dr Năznea Adrian	30 de minute după fiecare activitate practică

Head of department

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Genetic hereditary factors in determining the scope of orofacial disorders			
2.2 Course coordinator: Prof dr Bănescu Claudia-Violeta			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 1		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
minim 10 persoane
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Formularea de ipoteze si interpretarea corectă a semnelor, simptomelor clinice, a modificărilor paraclinice. Acordarea sfatului genetic, calcularea riscului de recurenta a bolilor genetice. Evaluarea corectă a riscului de îmbolnăvire, respectiv alegerea si aplicarea măsurilor adecvate de profilaxie în familie si în populatie în caz de boală genetică. Implementarea unor abordări noi privind procesul de stabilire a diagnosticului si managementului bolilor genetice în relatie cu progresul cunoasterii si cel tehnic din domeniul biologiei moleculare Initierea si derularea unei activități de cercetare stiintifică în domeniul geneticii

6.2 transversal competencies:

Constientizarea nevoii de formare continuă în domeniul geneticii și biologiei moleculare în era de genetizare a medicinei: utilizarea eficientă a resurselor și tehnicilor de învățare pentru dezvoltarea personală și profesională, a surselor informaționale și a resurselor de comunicare, a literaturii de specialitate la zi, a bazelor de date genetice și softuri de asistare a stabilirii diagnosticului în bolile genetice cu implicare în sfera oro-maxilo-facială.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Înșușirea noțiunilor de genetică medicală cu aplicații în medicina dentară.

7.2 Specific objectives:

Cunoașterea rolului factorilor genetici în realizarea trăsăturilor fiziologice și a bolilor genetice cu implicare în sfera oro-maxilofacială.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Approaching of the patient with congenital malformations. Syndromes associated with filtrum abnormalities	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
2	Syndromes associated with lip abnormalities (full lips). Syndromes associated with lip abnormalities (cleft lip)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
3	Syndromes associated with tongue abnormalities (macroglossia, microglossia). Syndromes associated with tongue abnormalities (multiple frenulum, bifid tongue)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
4	Syndromes associated with teeth abnormalities (anodontia, hypodontia). Syndromes associated with teeth abnormalities (abnormalities of eruption, neonatal teeth)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
5	Syndromes associated with abnormality of the maxilla	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
6	Chromosomal abnormalities associated with oro-facial syndromes	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
7	Congenital anomalies induced by teratogens. Genetic counseling in syndromes affecting Craniofacial and Dental Structures	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases.	2

Bibliography

Bibliografie obligatorie:

1. Lyons Jones K., Crandall Jones M., Del Campo M. Smith's recognizable patterns of human malformation, 7th edition, Ed. Elsevier, 2013

Bibliografie suport:

2. Agnes Bloch-Zupan, Heddie Sedano, Crispian Scully. Dento/Oro/Craniofacial Anomalies and Genetics. Ed Elsevier, 2012.

3. Raoul Hennekam, Judith Allanson, and Ian Krantz. Gorlin's Syndromes of the Head and Neck, Editura: Oxford University Press. 2010

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Syndromes associated with filtrum abnormalities - case presentation	power point, discussion	-	Chromosomal disorders, Monogenic diseases-	2
2	Syndromes associated with lip abnormalities- case presentation	power point, discussion	-	Chromosomal disorders, Monogenic diseases	2
3	Syndromes associated with tongue abnormalities- case presentation	power point, discussion	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
4	Syndromes associated with teeth abnormalities - case presentation	power point, discussion	-	Chromosomal disorders, Monogenic diseases.	2
5	Syndromes associated with abnormality of the maxilla	power point, discussion	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
6	Chromosomal abnormalities associated with oro-facial syndromes	power point, discussion	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
7	Genetic counseling - RR calculation	problem solving	-	Chromosomal disorders, Monogenic diseases.	2

Bibliography

Lyons Jones K., Crandall Jones M., Del Campo M. Smith's recognizable patterns of human malformation, 7th edition, Ed. Elsevier, 2013

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Recunoașterea și abordarea factorului genetic în determinarea tulburărilor din sfera oro-maxilofaciala

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	According to the specifics of the domain	test, proiecte in echipa- discutii.	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	According to the specifics of the domain	written exam	70
- practical final exam	-	-	0
Minimal performance standards: Basic knowledge of medical genetics, The minimum grade to pass the exam is 5 (this will result from the grades received for activities during the semester and at the final exam). The theoretical exam consists of a test with simple and multiple choices, according to the regulation.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Bănescu Claudia-Violeta	30 min dupa curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Occupational diseases and work-related diseases in dentistry			
2.2 Course coordinator: Conf dr Moldovan Horațiu-Remus			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Cunoștințe generale de anatomie, fiziologie și fiziopatologie
4.2 competency: nu este cazul

5. Conditions

5.1 for lectures: Sala de curs, suport IT, platformă digitală pentru predare on/line, în funcție de evoluția epidemiologică
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Cunoașterea noxelor profesionale fizice, chimice și biologice, precum și a suprasolicitarilor anumitor organe și/sau sisteme ale organismului în procesele de muncă în domeniul stomatologiei. Cunoașterea unor efecte ale acestor noxe asupra organismului.
6.2 transversal competencies: Aplicare de măsuri de prevenție eficiente pentru prevenirea îmbolnăvirilor profesionale sau a îmbolnăvirilor cu factori profesionali contributory în domeniul stomatologiei.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Constientizarea, recunoasterea factorilor de risc profesionali la personalul din domeniul stomatologiei si a tehnicilor dentare. Elaborarea unor planuri de preventie.

7.2 Specific objectives:

Recunoasterea semnelor, simptomelor unei eventuale imbolnaviri profesionale.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Occupational risks and risks related to occupation in dentists, classification. Physical injury factors in dentistry: basic ergonomics concepts; occupational injuries caused by vibration and noise.	Oral/ multimedia	-	osteomuscular pain, dizziness, hearing loss, pain	2
2	Occupational physical risks in dentistry: different types of electromagnetic radiation (laser, UV, visible light) -, ionizing radiation (Rx) -, occupational injuries caused by electricity, accidents.	Oral/ multimedia	-	asthma, dyspnea, burns, cardiorespiratory arrest, pruritus	2
3	Occupational physical hazards: microclimate and occupational diseases caused by various dust. Classification of elementary dust particles: metals, other types of dust (organic substances, inorganic substances, composites). Lung self-cleaning process, prevention techniques.	Oral/ multimedia	-	asthma, acne, carcinoma, gastric ulcer, intoxication	2
4	Occupational diseases caused by inorganic particles in dentistry: pneumoconiosis, interstitial pneumonia. Harmful chemical factors in dentistry: diseases caused by irritating gases, vapors, organic solvents.	Oral/ multimedia	-	immunodeficiency, candidosis, osteomyelitis, otitis media, tuberculosis, endocarditis, sepsis, skin infections, respiratory infections	2
5	Latex allergy. Contact dermatitis caused by acrylates and metals. Occupational asthma: epidemiology, diagnosis, evolution.	Oral/ multimedia	-	dermatitis, intoxication	2
6	Occupational diseases caused by metal oxides (Ni, Cr, Co, Hg) in dentistry. Diseases caused by biological factors in dentistry (epidemiology, prevention procedures - vaccination programs recommended by the WHO): HIV, hepatitis B, C, TB, other common bacterial, fungal and viral infectious diseases.	Oral/ multimedia	-	intoxications, chronic liver disease, vision loss, anxiety, neurological diseases	2
7	TBL	Oral/ multimedia	-	intoxications, chronic liver disease, vision loss, anxiety, sleep disorders, immunodeficiency, candidiasis, osteomyelitis, otitis media, tuberculosis, endocarditis, sepsis, skin infections, respiratory infections	2

Bibliography

1. Encyclopaedia of Occupational Health and Safety, 2012, online <http://www.iloencyclopaedia.org>
2. H.G. 355/2007
3. H.G. 1169/201
4. A. Cocarla, Medicina ocupationala, vol I, II, 2009 Editura Medicala Universitara Iuliu-Hatieganu, Cluj Napoca
5. L. Szasz, Vandemecum de medicina muncii, Editura Universitas, Targu Mures, 2008

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	during the lectures	participation in debates during classes	10
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	-final exam	-verification	90
- practical final exam	-	-	0
Minimal performance standards:			
- minimum presence for internship - 75%			
- patient examination and anamnesis - 25%			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Moldovan Horațiu-Remus	

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Adhesive modern techniques in dentistry			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students). Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Acquiring theoretical knowledge on contemporary dental adhesive techniques covering various ramifications of adhesion and adhesives in the broad domain of dentistry, providing an important evidence base. A solid grasp of the principles, mechanics and techniques of bonding and modern adhesive systems is essential in dentistry. The course includes theoretical aspects of the concept of „adhesive dentistry” as it is apparent that adhesion and adhesives play important roles in modern clinical dentistry. Students will develop skills and confidence through the design and execution of minimally invasive indirect and direct adhesive techniques in order to achieve the best functional and aesthetic results, in point of view of achieving an appropriate treatment plan.

6.2 transversal competencies:

The course will be delivered as a series of interactive meetings. For students to achieve a comprehensive, well-rounded education, integrated teamwork on several fronts is vital. Teamwork is necessary between students and between students and teachers. The more teamwork fundamentals exhibited, the more opportunity exists for students to learn the vital skills of compromise and collaboration in modern adhesive dentistry.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

-The student has to understand the basic concepts on the techniques used in adhesive dentistry.
-The student will learn to develop skills to apply the gained knowledge with an appropriate correlation in various clinical situations in which it is possible to use these methods.

7.2 Specific objectives:

-The student will be able to describe the concepts and methods used in modern adhesive techniques.
-The student will acquire the ability to understand different aspects of composition and properties of various adhesive systems which have implications for major applications in dentistry.
-Applications of theoretical knowledge on various adhesive systems to their use in dental practice.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Adhesive techniques: from classic to modern. Explanation of the terms used, exemplifying.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Fundamental concepts of enamel and dentin adhesion.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Chemical and histological characters of enamel; adhesion to enamel. Chemical and histological characters of dentine; adhesion to dentin.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Materials, methods and technique options for adhesive fixing.	Test	Two hours every week in english.	-	2
5	Adhesive bridges.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Adhesive techniques used in pedodontics.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Successful treatment plans in adhesive dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C. Tehnici adezive moderne in medicina dentara. Editura: University Press 2015.

2. Jorge Perdigao: Current perspectives on dental adhesion: (1) Dentin adhesion – not there yet, Japanese Dental Science Review, 2020.

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Adhesive techniques: from classic to modern. Explanation of the terms used, exemplifying.	Practical demonstration.	Students will proceed to adhesive techniques.	-	2
2	Fundamental concepts of enamel and dentin adhesion.	Oral presentation, multimedia, participative discourse, argumentation.	Practical proceeding to adhesion to enamel.	-	2

3	Chemical and histological characters of enamel; adhesion to enamel. Chemical and histological characters of dentine; adhesion to dentin.	Practical demonstration.	Practical proceeding to adhesion to dentine.	-	2
4	Materials, methods and technique options for adhesive fixing.	Written evaluation of the acquired knowledge.	Test	-	2
5	Adhesive bridges.	Oral presentation, multimedia, participative discourse, argumentation.	Practical demonstration on adhesive bridges.	-	2
6	Adhesive techniques used in pedodontics	Oral presentation, multimedia, participative discourse, argumentation.	Practical demonstration on deciduous teeth.	-	2
7	Successful treatment plans in adhesive dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Practical demonstration.	-	2

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C. Tehnici adezive moderne in medicina dentara. Editura: University Press 2015.
2. Jorge Perdigao: Current perspectives on dental adhesion: (1) Dentin adhesion – not there yet, Japanese Dental Science Review, 2020.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- Course content is in accordance with the courses on the same topic listed in other universities with important achievements in theoretical and empirical evidence techniques in adhesive dentistry.
- Acquiring these modern restorative methods will be extremely useful for future dentists, adhesive techniques representing the greatest progress that restorative dentistry registers itself.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic.	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of modern adhesive techniques used in dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	30 min după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Diet principles in oral pathology			
2.2 Course coordinator: Prof dr Tarcea Monica			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 4		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 12		
- tutorial activities: 2		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: - nu e cazul
4.2 competency: - nu e cazul

5. Conditions

5.1 for lectures: minim 15 cursanti
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Descrierea noțiunilor de bază ale funcționării organismului uman și a mecanismelor generale de producere a bolilor. - Integrarea noțiunilor de bază în concepte/ situații care se aplică organismului uman cu scopul de a explica semne și simptome. - Descrierea conceptelor, teoriilor și noțiunilor fundamentale de fiziopatologie, pe sisteme și mecanisme de acțiune. - Stabilirea tehnicilor de îngrijire impuse de existența unor semne și simptome de boală. - Stabilirea principiilor terapeutice care modifică mecanismele fiziopatologice în vederea ameliorării simptomelor bolii. - Utilizarea noțiunilor dobândite în cadrul disciplinei pentru cercetarea științifică ulterioară

6.2 transversal competencies: Realizarea unei lucrări/referat/ caz clinic cu identificarea obiectivelor de realizat, a resurselor disponibile, condițiilor de finalizare a acestora, etapelor de lucru, timpilor de lucru, termenelor de realizare aferente și riscurilor aferente diverselor mecanisme fiziopatologice. - Identificarea rolurilor și responsabilităților într-o echipa pluridisciplinară și aplicarea de tehnici de relaționare și muncă eficientă în cadrul echipei și în relație cupacientul. - Utilizarea eficientă a surselor informaționale și a resurselor de comunicare și formare profesională asistată (portaluri Internet, aplicații software de specialitate, baze de date de tip PUBMED, cursuri on-line etc.) atât în limba română, cât și într-o limbă de circulație internațională. - Dezvoltarea gândirii medicale și folosirea informațiilor științifice în contextul interdisciplinarității
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Learning of basic diet principles and how to elaborate on specific diets recommended in various oral and dental illnesses. - To monitor and evaluate the hazards related to nutrition, their effects on teeth and oral mucosa, and proper intervention to reduce and prevent the illnesses related to it and to promote the dental health status of the population.
7.2 Specific objectives: - Analysis of main components of a healthy diet with a good impact on teeth - Identification of general functions and major food sources for each nutrient necessary for dental and oral system - To know the methodology of evaluation of food quality and food safety.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Definition and importance of nutrition in for a healthy dental status and prevention of chronic diseases. Healthy diet principles for mouth and teeth.	Oral presentation and multimedia	-	disorders of calcium and vitamin D metab	2
2	Dietary assessment. Digestion, absorbtion and metabolism of food and nutrients and dental impact.	Oral presentation and multimedia	-	eating disorders	2
3	Dietary reference and nutrients and caloric intakes for the body. Major food sources recommended in oral pathology and cooking technics	Oral presentation and multimedia	-	eating disorders	2
4	Diet recommendations during life cycle for healthy teeth: children, teenagers, adults, senior, athletes and pregnant women.	Oral presentation and multimedia	TBL	malabsorbtion	2
5	Diets and menus recommended in various oral and dental illnesses like: caries, edentations, trush, granulomatosis, dermatosis, candidiasis or viral infections.	Oral presentation and multimedia	-	candidiosis	2
6	Diets and menus recommended in cancer	Oral presentation and multimedia	-	malnutrition	2
7	Diets and lifestyle practices recommended in diabetes, heavy metals poisoning, fluorosis or xerostomia	Oral presentation and multimedia	Final evaluation by Essay	xerostomiosis	2

Bibliography

1. Mahan LK, Escott-Stump S. - Krause's Food, Nutrition, and Diet Therapy. 14th ed. W.B. Saunders Co, Philadelphia, 2014.

Bibliografie suport:

2. Nnakwe NE. – Community Nutrition, Planning Health promotion and Disease Prevention, 3rd edition, Edit. Jones & Bartlett Learning, 2017

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Evaluarea factorilor de risc pentru patologia cavitatii orale	multimedia	-	fumat, alcool, dieta, cancer	2
2	Metodologia evaluarii starii nutritionale	multimedia	-	obezitate, malnutritie, carie	2
3	Metode de determinare parametrii antropometrici pacienti	multimedia, aplicatii, calcule	-	greutate, inaltime, obezitate, subpondere	2
4	Etapele elaborarii planului nutritional personalizat	multimedia	-	nutritie, alimente, calciu, carie, cancer	2
5	Studii de caz - cancer	multimedia, studii de caz	-	cancer, xerostomie, anorexie	2
6	Protocol evaluare risc de malnutritie	multimedia, studii de caz	-	malnutritie, edentatie, cancer, anemie	2
7	Determinarea bilantului alimentar in comunitate	studii de caz	-	carie dentara, preventie, dieta	2

Bibliography

Martin-Hadmas Roxana, Tarcea Monica - Ghid de nutritie comunitara, Edit. University Press, 2022.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Evaluation and analysis of food nutritional risk factors and proper implementation of dental health programs, preventive measures, and education training for the population.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	test grila	10
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Verificare	Referat	60
- practical final exam	Studii de caz	Discutii, dezbateri	30
Minimal performance standards:			
- admitere la examenul practic doar daca nu depaseste 50% din absente nerecuperate			
- nota minima 5 la practic si teoretic			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Tarcea Monica	30 minute dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental materials in paediatric dentistry			
2.2 Course coordinator: Conf dr Kerekes-Máthé Bernadette-Evelyn			
2.3 Practical activities coordinator(s): Nu este cazul			
2.4 Year of study: II	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 1		
- supplemental documentation at the library, from specialized information portals and in the field: 1		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 1		
- tutorial activities: 1		
- examinations: 1		
- other activities: 1		
3.8 Total hours of individual study: 6		
3.9 Total hours: 34		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students). Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
-In addition to acquiring material handling modern techniques of dental materials used in restorative pediatric dentistry, the student will know the composition, the physical, mechanical and chemical properties of the dental materials in order to understand the impact of dental materials that come in contact with oral tissues and will have the necessary knowledge for a proper and effective use of these materials in practice. There is a specific use of the dental materials in pediatric dentistry, new restorative and therapeutic materials have been developed, and there are specific pedodontic materials that the student will endorse.
-Future dentist should know that there are many variants of restoring coronary lesions in temporary and young permanent teeth and he or she should be able to choose a material from the variety of options on the market. They must know which material is better, more efficient and especially which matches the requirements and

demands of the small patients, ensuring the optimum conditions to comply with the international norms. In addition, the student will understand the orthodontic biomechanical ways and the materials from which are manufactured the orthodontic brackets and devices for functional rehabilitation used in orthodontics.
6.2 transversal competencies: -Collaboration and teamwork is today a complex, requiring permanent university training. The student realizes that the work they perform it is a teamwork and the human factor is: the dentist, the dental assistant and the dental technician who must ensure the health and safety at work and the use of modern technologies in pediatric and orthodontic practice. -Teamwork, passion for performance and commitment to helping patients equally bounds students to become increasingly efficient dental professionals in dental practice. -Marketing and dental practice management performance through knowledge of dental materials. -Didactic activity in practical instruction or administration in the field of dental materials used in pedodontics and orthodontics.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: -To acquire the necessary knowledge for the proper and efficient use of materials in pediatric dentistry and orthodontics.
7.2 Specific objectives: -To acquire the ability to understand different aspects about the composition and properties of dental materials which have major implications in practice in pediatric dentistry and orthodontics. -Understanding theoretical aspects on dental materials to be able to use in pediatric dentistry.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Generalities, conditions of materials used in pediatric dentistry. Profilactic materials: fluoride containing products.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Pit and fissure sealants.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Materials for pulpo-dentinal protection, cavity base materials for pediatric dentistry use.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Restorative materials. Materials used for endodontic treatments in pediatric dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
5	Materials used for cementation of orthodontic appliances. Materials used for prosthodontic treatment in pediatric dentistry (crowns for children).	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Materials used for different orthodontic appliances.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Materials for mouthguards used in sport activities. Impression materials in pediatric dentistry. Generalities about reparation and reconditioning of appliances used in pediatric dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2

Bibliography

1. SC Leal, EM Takeshita: Pediatric Restorative Dentistry. Springer International Publishing, 2019.
2. Van Noort R: Introduction to Dental Materials. 4th ed. Mosby Elsevier Publishing, Edinburgh, 2016.

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Nu este cazul	Nu este cazul	Nu este cazul	Nu este cazul	2
2	Nu este cazul	Nu este cazul	Nu este cazul	Nu este cazul	2
3	Nu este cazul	Nu este cazul	Nu este cazul	Nu este cazul	2
4	Nu este cazul	Nu este cazul	Nu este cazul	Nu este cazul	2
5	Nu este cazul	Nu este cazul	Nu este cazul	Nu este cazul	2
6	Nu este cazul	Nu este cazul	Nu este cazul	Nu este cazul	2
7	Nu este cazul	Nu este cazul	Nu este cazul	Nu este cazul	2

Bibliography
Nu este cazul

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures.
Diagnosis and interceptive treatment of dentomaxillary anomalies.
Prosthetic restoration of dental arches.
Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics.	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of dental materials used in paediatric dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Kerekes-Máthé Bernadette-Evelyn	30 de minute dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M4
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical semiology. Internal medicine			
2.2 Course coordinator: Prof dr Negovan Anca-Elena			
2.3 Practical activities coordinator(s): Sef. lucr. Roman Adina			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 3		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 8		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: To achieve basic knowledge regarding medical semiology of the body systems and apparatus, integrative evaluation of the medical and health status of the patients
6.2 transversal competencies: The capacity to appreciate and evaluate the health status of patients based on medical history of the patients and clinical examination
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Gathering and using basic knowledges regarding correct interpretation of clinical symptoms and signs and investigations in order to develop a problem list and plan, establish a presumed diagnosis and create the patient's record

7.2 Specific objectives:

To synthesize the most important communication skills and clinical examination techniques: inspection, palpation, percussion, auscultation, that can be useful in assessment of medical diagnostic of patients

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Taking medical history. General survey.	oral and multimedia presentation	-	confusion, cyanosis, dizziness, limp, malformations of cardiovascular system, malformations of spine/CNS, menstrual disorders, normal pregnancy and deliver, Weight gain, weight loss, substance abuse,	1
2	General inspection. Skin, subcutaneous tissue, lymphatic system.	oral and multimedia presentation	-	eczematous skin lesions, hair disorders, bullous/vesicular skin eruption lump neck, gynaecomastia	1
3	Examination of the head (eye, ear, mouth, pharynx, neck)	oral and multimedia presentation	-	carcinoma of head and neck, headache, hearing loss, parotid swelling	1
4	Symptoms of respiratory diseases. Clinical examination of respiratory system.	oral and multimedia presentation	-	breathlessness, chest pain, cyanosis, hemoptysis	1
5	Respiratory syndromes (obstructive, consolidation)	oral and multimedia presentation	-	asthma, carcinoma of the bronchus, chronic bronchitis	1
6	Respiratory syndromes (pleural, mediastinal, respiratory failure)	oral and multimedia presentation	-	emphysema, pneumothorax, respiratory tract infection	1
7	Symptoms of cardiovascular diseases. Clinical examination of cardiovascular system.	oral and multimedia presentation	-	breathlessness, chest pain, cyanosis, oedema, palpitation	1
8	Cardiovascular syndromes (cardiac ischemia, hypertension, valvopathies)	oral and multimedia presentation	-	cardiac valve disease, hypertension, ischemic heart disease thromboembolic disease	1
9	Cardiovascular syndromes (pericarditis, endocarditis, arterial diseases, venous diseases, heart failure)	oral and multimedia presentation	-	varicose veins, thromboembolic disease, peripheral arterial diseases, pericardial disease	1
10	Symptoms of digestive diseases. Clinical examination of digestive system.	oral and multimedia presentation; midterm	-	abdominal distension, abdominal pain, intestinal obstruction, constipation, dysphagia, haematemesis, hepatomegaly, eating disorder	1
11	Syndromes of digestive tract (peptic ulcer, cancers, inflammatory bowel disease, digestive hemorrhages, etc.)	oral and multimedia presentation	-	inflammatory bowel diseases, rectal bleeding, gastroenteritis, peritonitis,	1
12	Digestive system. Hepatobiliary and pancreatic syndromes.	oral and multimedia presentation	-	jaundice, chronic liver disease, acute liver disease/failure, gall bladder disease	1
13	Urinary system. Symptoms of urinary diseases. Clinical examination of genito-urinary system	oral and multimedia presentation	-	back pain. dysuria, frequency of micturition, urinary tract infection, urinary incontinence	1

14	Hematologic disorders. Bleeding syndromes. Splenomegaly	oral and multimedia presentation	-	jaundice, drug reaction, hepatomegaly, rhesus haemolytic diseases, splenomegaly, anemia,	1
Bibliography Bibliography: Oxford Handbook of Clinical Examination and Practical Skills, James Thomas, Tanya Monaghan, Oxford University Press 2012 Dr. German-Sallo Marta Basics of Diagnosis: History Taking, Physical Examination and Investigations, Vol I and II, University Press Tirgu Mures					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Taking history. Medical paper.	demonstration, practicing, working in small groups	-	malformations of cardiovascular system, malformations of spine/CNS, menstrual disorders, normal pregnancy and deliver, Weight gain, weight loss, substance abuse	2
2	General survey (gait, posture, etc)	demonstration, practicing, working in small groups	-	confusion, cyanosis, dizziness, limp,	2
3	Skin, subcutaneous tissue- edema	demonstration, practicing, working in small groups	-	eczematous skin lesions, hair disorders, bullous/vesicular skin eruption lump neck, gynaecomastia	2
4	Head examination. Lymph node examination.	demonstration, practicing, working in small groups	-	lymphadenopathy, lump neck, limp	2
5	Respiratory system: symptoms, clinical examination, paraclinical evaluation (chest x-ray)	demonstration, practicing, working in small groups	-	breathlessness, chest pain, cyanosis, hemoptysis	2
6	Respiratory syndromes (obstruction, consolidation, pleural, respiratory failure)	demonstration, practicing, working in small groups	-	asthma, carcinoma of the bronchus, chronic bronchitis and emphysema, pneumothorax, respiratory tract infection	2
7	Cardiovascular system: symptoms, clinical examination	demonstration, practicing, working in small groups	-	breathlessness, chest pain, cyanosis, oedema, palpitation	2
8	Cardiovascular syndromes (ischemia, valvular diseases, hypertension, arterial diseases, venous diseases,	demonstration, practicing, working in small groups	-	cardiac valve disease, pericardial disease, hypertension, thrombotic disease	2
9	Digestive system: symptoms, clinical examination, laboratory test.	demonstration, practicing, working in small groups	-	abdominal distension, abdominal pain, intestinal obstruction, constipation, dysphagia, haematemesis, hepatomegaly, eating disorder	2
10	Syndromes of digestive disorders (ulcer, bleeding, cancers, inflammatory bowel disease)	demonstration, practicing, working in small groups	-	abdominal distension, jaundice, hepatomegaly, splenomegaly	2
11	Syndromes of digestive and hepatobiliary tract. Ultrasonography of the abdomen.	demonstration, practicing, working in small groups	-	jaundice, chronic liver disease, acute liver disease/failure, gall bladder disease	2
12	Urinary system- symptoms. Ultrasonography of the kidney.	demonstration, practicing, working in small groups	-	back pain. dysuria, frequency of micturition, urinary tract infection, urinary incontinence	2
13	Urinary system- syndromes (infection, nephrotic, chronic kidney disease)	demonstration, practicing, working in small groups	-	carcinoma of the kidney and bladders, sexually transmitted diseases, urinary tract infection, disorders of prostate	2
14	Haematologic disorders (anemia, leukemia, lymphoma)	demonstration, practicing, working in small groups	-	splenomegaly, PUO, hepatomegaly, jaundice, lymphadenopathy, purpura, transfusion of blood products	2

Bibliography

Oxford Handbook of Clinical Examination and Practical Skills, James Thomas, Tanya Monaghan, Oxford University Press 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The capacity of practitioner to evaluate the medical condition of the patient and to identify specific diseases, based on the medical history of the patient, their signs and symptoms.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Depending on discipline requirements.	Midterm	20
- practical activities	Depending on discipline requirements.	CBL	10
Final evaluation			
- theoretical final exam	Depending on discipline requirements.	Theoretical exam-multiple choice questions	50
- practical final exam	Depending on discipline requirements.	Practical exam	20
Minimal performance standards: Carrying out 7 anamnesis (with their description in the practical workbook), completed with the general inspection of the patient • performing 4 objective examinations (inspection, palpation, auscultation percussion) of the systems with a detailed description of each patient			

11. Must seen clinical situation list

Pallor
Cyanosis, cutaneous erythema, rash
Jaundice
Bilateral/Unilateral lower limb edema, collateral vein circulation
Cutaneous bleeding
Palpation of peripheral adenopathy
Bronchial syndromes (acute bronchitis, chronic bronchitis, asthma)
Pulmonary consolidation syndrome (pneumonia, cancer)
Respiratory failure
Patient with coronary syndrome (acute, chronic)
Patient with valvular cardiomyopathy (mitral, aortic, pulmonary, tricuspid)
Hypertension syndrome
Heart failure
Patient with peripheral arterial disease
Patient with symptoms of venous diseases
Patient with peptic ulcer disease, digestive cancer
Patient with liver/biliary condition
Urinary Tract Infection
Urinary tract obstruction
Patient with anemia

12. Clinical / practical abilities

The standard history framework
• General data:

• Anamnesis:
o Chief complains: most relevant symptoms
o Family history:
o Diseases with potential family predisposition/aggregation, genetically transmitted diseases.
o Chronic contagious diseases like: Tuberculosis, HIV, viral hepatitis or other sexually transmitted diseases
o Personal history:
o Physiologic:
o For female patients: first and last menstruation, number of pregnancies, pathologic events during pregnancies, miscarriages.

o Pathological history:

- ☐ Childhood diseases and most important contagious diseases.
- ☐ Chronic diseases (it will be asked about arterial hypertension, diabetes)
- ☐ Surgical history
- ☐ Traumas
- ☐ Allergies

o Living conditions: (Diet, working out, occupational status, marital status, living conditions, educational levels)

o Chronic intoxication:

- ☐ Smoking: how many cigarettes/day, for how long
- ☐ Alcohol intake
- ☐ Drugs

o Medication: name, dosage

• History of the present illness-history of the present complaint

- o The onset of the problem, the setting in which it has developed, its manifestation.
- o For each symptom: the exact nature, location, quality, quantity or severity, the setting in which they occur, timing (including onset, duration and frequency)
- o The evolution of the symptoms, investigations, treatments.
- o Associated comorbidities.
- o Present status: general condition, body temperature and weight, stools, sleeping and appetite.

2. Physical examination:

- General state inspection: -posture/stance; motor activity; facial expression; height weight and built.
- Skin, hair and nail examination: pallor, increased pigmentation, erythema(redness), icterus, cyanosis, edemas, collateral circulation, skin eruptions and lesions.
- Consciousness and state of mind: sleeping disorders; transient loss of consciousness-syncope; prolonged loss of consciousness-coma's; seizures.
- Neurological semiology: tremors and other involuntary movements; voluntary (active) movements; movement coordination; abnormalities of sensation; reflexes, loss of consciousness, convulsions, and comas.
- Lymph nodes semiology: inspection and palpation of the lymph nodes.
-
- Semiology of lips, mouth and pharynx: alteration of lips and mouth in respiratory, cardiovascular, digestive, rheumatologic and metabolic/ nutritional disease; alterations of the mouth in infectious diseases and endocrinological disorders.
- Adipose and muscle system semiology : palpation of the tegument and adipose tissue; muscles examination and semiology.
-

3. Semiology of the respiratory system.

- Particularities of history and common symptoms of respiratory diseases.
- Physical examination of the respiratory system:
 - topographic landmarks of the thorax; general inspection, thorax inspection; chest deformities.
 - palpation of the chest wall; respiratory expansion (chest wall movements); tactile fremitus/ tactile fremitus alteration (increased, decreased or absent)
 - percussion of the chest wall: topographic and comparative
 - auscultation of the lungs: normal vesicular sound, bronchial breathing, added sounds (crackles, crepitations or rales)

aking history for cardiovascular diseases

• Clinical examination of cardiovascular system

- o General inspection
- o Inspection of thorax/precordium
- o Palpation of thorax/precordium
- o Palpatoric heart added sounds/significance
- o Systolic/diastolic palpable murmur (thrill)
- o Percussion of precordium
- o Auscultation of the heart
 - ☐ The main areas of heart auscultation
 - ☐ Normal heart sounds
 - ☐ Pathological changes of heart sounds
 - ☐ Abnormal rhythms
 - ☐ Arrhythmia
 - ☐ Added heart sounds
- Systolic murmurs

- Diastolic murmurs (topography, radiation area, significance)
- Pericardial rub
- Clinical examination of peripheral arteries (palpation of the pulse, area, characters of the pulse, pathological changes, significance)
- Blood pressure measurement- hypertension, hypotension.
- Clinical examination of veins
- Clinical examination of digestive system :
 - o Inspection of mouth/pharynx
 - o Examining the abdomen
 -  Inspection
 -  Palpation (technique-superficial, deep palpation)
 -  painful area of abdomen
 -  topography of abdomen
 -  liver palpation (hepatomegaly, significance)
 -  palpation of abdominal masses
 -  spleen palpation(techniques, significance)
 -  percussion of abdomen
 -  auscultation of abdomen (bowel sounds, arterial murmurs)
- Physical examination of urinary system:
 - o Renal edema, secondary renal hypertension, anemia
 - o Abdominal examination :
 -  Kidney palpation
 -  Genitalia examination
 -  Kidney auscultation

13. Appointment timetable (for students)

Prof dr Negovan Anca-Elena	Vineri 13-14

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Technology of dental prostheses (1)			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): Șef I. dr.Borș Andrea-Izabella			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 39		
- supplemental documentation at the library, from specialized information portals and in the field: 38		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 38		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 116		
3.9 Total hours: 200		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Lecture hall equipped with multimedia equipment.
5.2 for practical activities:
Specific dental laboratory, working tables, instruments, equipment and various dental materials necessary for the working stages in manufacturing dental prostheses.

6. Specific competencies acquired

6.1 professional competencies:
Acquiring theoretical and practical knowledge using their own experiences in the process of achieving the technologies used in current practice for manufacturing the fixed dental prostheses.
- Acquiring theoretical and practical knowledge regarding the achievement of dental prostheses through various technologies and the appropriate use of the dental materials in this process.
-Students, these future doctors, must know thoroughly and accurately all stages of manufacturing the partial, fixed dental prosthesis, both, the clinical and laboratory phases, therefore they will be able to conceive a correct design of these restorations.

6.2 transversal competencies:

The dentist's supporting team aids in providing oral health services: the students will understand the need for proper and orderly communication with both, dental technicians and dentist or teacher.

The complexity of prosthodontics as well as the scientific and technological progress, makes the field of technology of dental prostheses absolutely necessary to be studied separately, in order to remain an well-defined discipline.

Marketing and the dental laboratory management through the knowledge of equipping, techniques, classical and modern technologies it will help to achieve appropriate dental prosthesis.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The students will acquire the knowledge on specific technological procedures performed in dental laboratory to achieve dental prostheses in view of prosthetic restorations (C4).

7.2 Specific objectives:

Acquiring theoretical and practical knowledge on the procedures and sequencing for obtaining prosthetic works.

-Acquiring the ability to conceive indirect fixed restorations.

-Acquiring basic skills to perform or correct the laboratory phases in the manufacture of dental prostheses.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Fixed partial dentures: definitions, basic concepts, classifications, manufacturing technologies.	Oral and multimedia presentation.	Two hours courses in english.	-	2
2	Dental crowns. The technology for manufacturing metallic crowns.	Oral and multimedia presentation.	Two hours courses in english.	-	2
3	Dental crowns. The technology for manufacturing polymer-based crowns.	Oral and multimedia presentation.	Two hours courses in english.	-	2
4	Dental crowns. The technology for manufacturing mixed metal-polymer crowns.	Oral and multimedia presentation.	Two hours courses in english.	-	2
5	Dental crowns. The technology for manufacturing porcelain-fused-to-metal dental crowns. (PFM's)	Oral and multimedia presentation.	Two hours courses in english.	-	2
6	Dental crowns. The technology for manufacturing full ceramic crowns.	Test	Written test.	-	2
7	Inlays, onlays manufacturing technologies.	Oral and multimedia presentation.	Two hours courses in english.	-	2
8	Partial crowns manufacturing technologies. Zirconia in technology of dental prosthesis. CAD/CAM technologies.	Oral and multimedia presentation.	Two hours courses in english.	-	2
9	Dental posts and cores. Technological procedures.	Oral and multimedia presentation.	Two hours courses in english.	-	2
10	Dental bridges: classification, parts and procedure.	Test	Written test.	-	2
11	Manufacturing dental bridges depending on position of missing tooth replaced.	Oral and multimedia presentation.	Two hours courses in english.	-	2
12	Methods and materials for manufacturing pontics.	Oral and multimedia presentation.	Two hours courses in english.	-	2
13	Technological procedures for manufacturing temporary dental bridges.	Oral and multimedia presentation.	Two hours courses in english.	-	2
14	Particular dental bridges.	Oral and multimedia presentation.	Two hours courses in english.	-	2

Bibliography

Required bibliography:

1. Bors A, Szekely M, Molnar-Varlam C, Camarasan A. : Technolgy of single unit dental prosthesis, Editura University Press, Tîrgu-Mureş, 2022.

2. Molnar-Varlam C., Grozescu V., Borş A. : Proteze dentare fixe - aspecte clinico-tehnice, Editura University Press, Tîrgu-Mureş, 2015.

Optional bibliography:

1. Stephen F. Rosenstiel, Martin F. Land, Junhei Fujimoto: Contemporary Fixed Prosthodontics, Fifth Edition, Elsevier, 2016

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of discipline rules for students, evaluation methods and safety rules in the dental office and dental laboratory.	Oral and written presentation.	Students will sign the acknowledgment. They will fill in the laboratory report (LR).	-	4
2	The technology of single unit fixed dental prosthesis.	Practical demonstrations. Taking impressions, mixing plaster and cast pouring.	Students will take impressions on phantoms with teeth prepared for all types of single unit fixed dental prosthesis. They will be graded (LR).	-	4
3	Intracoronaral and partial crowns: wax pattern, spruing, investing, casting, divesting, finishing, polishing.	Practical demonstrations.	Students will manufacture the wax pattern for inlays and onlays. They will be graded (LR).	-	4
4	The metallic crown.	Practical demonstration. Manufacturing wax pattern for metallic crown.	Individual waxing the pattern for metallic crown. Grading (LR).	-	4
5	The acrylic crown.	Practical demonstration. Manufacturing wax pattern for acrylic crown.	Individual waxing the pattern for acrylic crown. Grading (LR).	-	4
6	The mixed metal-polymer crowns.	Practical demonstration. Manufacturing wax pattern for acrylic veneered metallic crown.	Individual waxing the pattern for acrylic veneered metallic crown. Grading (LR).	-	4
7	The mixed metal-polymer crowns.	Practical demonstration. Manufacturing the C + B acrylic veneer, direct modeling and thermo-baro polymerization.	Individual manufacturing the C + B acrylic veneer, direct modeling and thermo-baro polymerization Grading (LR).	-	4
8	Post and cores and substitution crowns	Practical demonstration. Manufacturing wax pattern for post and core and substitution crown.	Individual waxing the pattern for post and core and substitution crown. Grading (LR).	-	4
9	The full ceramic and porcelain fused to metal crowns.	Multimedia presentation of technologies for manufacturing all-ceramic and porcelain fused to metal crowns.	Skills written in LR.	-	4
10	Technology of fixed dental prosthesis.	Practical demonstration.	Students will take impressions on partial edentulous maxillary and mandibular phantoms and will pour impressions. Grading (LR).	-	4
11	Dental bridges with different pontics for different oral topographic areas. The esthetic bridge.	Practical demonstration.	Waxing the pattern for an anterior maxillary bridge with modified ridge lap contact. Grading (LR).	-	4
12	Dental bridges with different pontics for different oral topographic areas. The acrylic veneered metallic bridge.	Practical demonstration.	Waxing the pattern for a lateral maxillary bridge with ovate contact. Grading (LR).	-	4

13	Dental bridges with different pontics for different oral topographic areas. The metallic bridge.	Dental bridges with different pontics for different oral topographic areas. The metallic bridge. Practical demonstration	Waxing the pattern for a lateral mandibular sanitary bridge. Grading (LR).	-	4
14	Revision.	Test	Seminar fixed dental prosthesis.	-	4

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C, Camarasan A. : Technolgy of single unit dental prosthesis, Editura University Press, Tîrgu-Mureş, 2022.
2. Silas Duarte Jr. Quintessence of Dental Technology 2016, Quintessence Book, 2016.
3. Molnar-Varlam C., Grozescu V., Borş A. : Proteze dentare fixe - aspecte clinico-tehnice, Editura University Press, Tîrgu-Mureş, 2015.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects through two tests.	Classification based on individual test.	10
- practical activities	Manufacturing one of the steps of realizing prosthetic works, acquired during the semester.	Activity performed in the form of test and exercises during the semester.	20
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects of the course topics.	Written exam as a test.	50
- practical final exam	Manufacturing one of the steps of realizing prosthetic works, acquired during the semester and one question from the semester material.	Practical exam.	20
Minimal performance standards: Obtaining the minimum mark of 5 (five) for each component of the assessment: to know the basics of technology of dental prostheses, not more than 20% unjustified absences and recovered from practical work, to realize the phases of work of basic technical stages.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	30 min după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Anesthesia. Anesthesia and sedation in dental medicine			
2.2 Course coordinator: Șef I dr Iacob Alina			
2.3 Practical activities coordinator(s): Șef I Dr Alina Iacob, Șef I Dr Petrovan Cecilia, Asist Univ Dr Temistocle Despina, Șef I Dr Cosarca Adina			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 27		
- supplemental documentation at the library, from specialized information portals and in the field: 26		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 26		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 80		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: -
4.2 competency: a fair command of the English language, basic understanding and communication skills

5. Conditions

5.1 for lectures: Lecture hall equipped with video projector or other type of multimedia equipment.
5.2 for practical activities: specific materials for performing injections (cartridges with anesthetic substances, gloves, sterile dental syringes, disposable needles, swabs, emergency kit)

6. Specific competencies acquired

6.1 professional competencies: Acquiring knowledge about performing and indications for different techniques of dental/oral anesthesia, and management of accidents and complications in each situation
6.2 transversal competencies: The ability to assess the indication of dental anesthesia for different treatment plans according to clinical findings and to integrate it with a multidisciplinary approach of a patient with specific condition.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Students will learn basic principles of asepsia and antisepsia, anesthetic substances, tools, materials and techniques used in dental loco-regional anesthesia.

7.2 Specific objectives:

Students will be able to perform different techniques of dental (local and regional) anesthesia. They will be also able to recognize, prevent and manage complications and accidents due to dental anesthesia.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Anesthesia - Definitions. History. Particularities of Anesthesia in Dentistry and OMF Surgery. Classification of anesthetic methods used in Dentistry and Oral and Maxillo-facial Surgery	Multimedia and oral presentation	discussions	NA	2
2	The purpose of local anesthesia techniques used in Dentistry. The nervous impulse transmission of pain. Properties of the ideal local anesthetic solution. The secondary actions of local anesthetics.	Multimedia and oral presentation	discussions	NA	2
3	Anatomy of the trigeminal nerve.	Multimedia and oral presentation	discussions	NA	2
4	Techniques of anesthesia in the upper jaw	Multimedia and oral presentation	discussions	NA	2
5	Techniques of anesthesia in the lower jaw	Multimedia and oral presentation	discussions	NA	2
6	Local anesthetic solutions – Classification. Pharmacology	Multimedia and oral presentation	discussions	NA	2
7	Additives (and vasoconstrictors) in local anesthetic solutions (Primary and secondary side effects)	Multimedia and oral presentation	discussions	NA	2
8	Local accidents of dental / oral anesthesia	Multimedia and oral presentation	discussions, case presentation	NA	2
9	Systemic complication of dental / oral anesthesia	Multimedia and oral presentation	discussions, case presentation	NA	2
10	Patients at risk	Multimedia and oral presentation	discussions	NA	2
11	Local anesthesia in children	Multimedia and oral presentation	discussions, case presentation	NA	2
12	General practical aspects	Multimedia and oral presentation	discussions	NA	2
13	General anesthesia – general aspects, particularities, indications in Dentistry and Oral and Maxillo-facial Surgery.	Multimedia and oral presentation	discussions	NA	2
14	Recap	Multimedia and oral presentation	discussions, case presentation	NA	2

Bibliography

1. JA Baart, HS Brand: Local Anaesthesia in Dentistry. Wiley-Blackwell - 2009
2. Iacob Alina and B. Bogoz, A. Coșarcă, A. Ormenișan, C. Petrovan, S. Comișel, D. Szava, R. Grigoraș: Practical Locoregional Anesthesia In Dentistry And Oral Surgery (Tehnici de anestezie loco-regională în Medicina Dentară și Chirurgia Orală) - Ed. University Press, Tg-Mureș, 2018

3. Iacob Alina, Petrovan Cecilia: Anestezia loco-regională în medicina dentară și chirurgia oromaxilo- facială. Indreptar de lucrări practice pentru studenții anului III Medicină Dentară – Tg-Mureș, 2011

4. Petrovan Cecilia, Iacob Alina: Anestezie și sedare în medicina dentară și chirurgia oromaxilofacială. Curs litografiat pentru studenții anului III Medicină Dentară – Tg-Mureș, 2011

5. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 Editura 2009 Q Med Publishing București, Cap 1, p1-62

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Anatomy of the trigeminal nerve - upper and lower jaw. Recap	Multimedia and oral presentation	discussions	NA	3
2	Practical aspects of handling specific materials, sterility and using various anesthetic substances	Multimedia and oral presentation	discussions, demonstration	NA	3
3	Theoretical presentation of anesthesia techniques by infiltration	Multimedia and oral presentation	discussions	NA	3
4	Practical implementation (exercise) of previous studied anesthetic techniques	practical demonstration	exercise	NA	3
5	Theoretical presentation of the local anesthetic techniques in the upper jaw	Multimedia and oral presentation	discussions	NA	3
6	Practical implementation (exercise) of previous studied anesthetic techniques	practical demonstration	CBL, exercise	NA	3
7	Theoretical presentation of the local anesthetic techniques in the lower jaw	Multimedia and oral presentation	discussions	NA	3
8	Practical implementation (exercise) of previous studied anesthetic techniques	practical demonstration	exercise	NA	3
9	Exercise of various dental/oral anesthetic techniques	practical demonstration	exercise	NA	3
10	Exercise of various dental/oral anesthetic techniques	practical demonstration	exercise	NA	3
11	Exercise of various dental/oral anesthetic techniques	practical demonstration	exercise	NA	3
12	Exercise of various dental/oral anesthetic techniques	practical demonstration	CBL, exercise	NA	3
13	Exercise of various dental/oral anesthetic techniques	practical demonstration	exercise	NA	3
14	Revision	discussion, case debate	exercise	NA	3

Bibliography

1. Hans Evers, Glenn Haegerstam. Introduction to Dental Local Anaesthesia

2. JA Baart, HS Brand: Local Anaesthesia in Dentistry. Wiley-Blackwell - 2009

3. Iacob Alina, Petrovan Cecilia: Anestezia loco-regională în medicina dentară și chirurgia oromaxilo- facială. Indreptar de lucrări practice pentru studenții anului III Medicină Dentară – Tg-Mureș, 2011

4. Iacob Alina and B. Bogozî, A. Coșarcă, A. Ormenișan, C. Petrovan, S. Comișel, D. Szava, R. Grigoraș: Practical Locoregional Anesthesia In Dentistry And Oral Surgery (Tehnici de anestezie loco-regională în Medicina Dentară și Chirurgia Orală) - Ed. University Press, Tg-Mureș, 2018

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Basic discipline with high implication in daily dental practice

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	Practical activity - multiple techniques of anesthetic procedures performed for upper and lower jaw	CBL (15%) no of anesthetic procedures performed (15%)	30
Final evaluation			

- theoretical final exam	knowledge of the bibliographic material	Written examination - Multiple choice questions test	50
- practical final exam	Ability to choose the right anesthetic technique for specific clinical situation	written examination - Multiple choice questions test on a clinical case scenario	20

Minimal performance standards:

- the presence to at least 50% of lectures
- minimum grade of 5.0 obtained at the theoretical examination
- ability to perform various dental anesthetic procedures in both upper and lower jaws according to treatment plan indications
- minimum of 6 dental anesthetic procedures performed during the module

11. Must seen clinical situation list

-

12. Clinical / practical abilities

Ability to perform basic oral/dental anesthetic techniques (infiltration anesthesia, mandibular block), to keep sterility and prevent complications and accidents

13. Appointment timetable (for students)

Şef I dr Iacob Alina	Pe durata modulului, Lunea si Miercurea câte 30 de minute după fiecare curs. During the module, Mondays and Wednesdays for 30 minutes after each lecture.

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Preventive dentistry (2)			
2.2 Course coordinator: Șef I dr Petcu Blanka-Timea			
2.3 Practical activities coordinator(s): Șef I dr Petcu Blanka-Timea			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 30		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 30		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular: no
4.2 competency: no

5. Conditions

5.1 for lectures: video-projector, laptop
5.2 for practical activities: dental units, handpieces, various consumables

6. Specific competencies acquired

6.1 professional competencies: The student must be able to know the different techniques of professional hygiene and supra- and subgingival scaling as well as the techniques of sealing pits and fissures.
6.2 transversal competencies: The student must know the rules of occupational safety, the risks of possible nosocomial infections and develop the ability to work in a team with colleagues, doctors and nurses.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Learning and performing descaling, professional sanitation and sealing pits and fissures.

7.2 Specific objectives:

Knowledge and deep knowledge of different methods and techniques of scaling, professional brushing and sealing

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental calculus: definition, classification, structure	Oral and multimedia presentation	no	no	2
2	Dental calculus: formation, attachment	Oral and multimedia presentation	no	no	2
3	Dental calculus: marginal calculus-periodontium relationship, pathogenicity	Oral and multimedia presentation	no	no	2
4	Manual supragingival scaling: instruments, techniques	Oral and multimedia presentation seminar	no	no	2
5	Manual supragingival scaling: instruments, techniques	Oral and multimedia presentation	no	no	2
6	Sonic and ultrasonic scaling: general principles, indications and contraindications	Oral and multimedia presentation	no	no	2
7	Ultrasonic scaling: technique, accidents and complications	Oral and multimedia presentation	no	no	2
8	Materials for sealing pits and fissures	Oral and multimedia presentation	no	no	2
9	Sealing techniques and evaluation of sealing efficiency	Oral and multimedia presentation	no	no	2
10	Halitosis	Oral and multimedia presentation	no	no	2
11	Acid dental erosion	Oral and multimedia presentation	no	no	2
12	Prophylaxis of malignancies with oral localization	Oral and multimedia presentation	no	no	2
13	Reversible carious lesions	Oral and multimedia presentation	no	no	2
14	Dentinal hypersensitivity. Prevention and treatment	Oral and multimedia presentation	no	no	2

Bibliography

1. Clinical Periodontology; Carranza, 9th Edition, 2002
2. Primary Preventive Dentistry; Norman O. Harris, 8th Edition, 2009
3. Course notes
4. Concepts in Preventive Dentistry; Tohati A., Bechir F., 2019

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Demonstration of the manual supragingival scaling technique	Practical demonstrations	nu e cazul	nu e cazul	4
2	Demonstration of the manual supragingival scaling technique	Practical demonstrations	nu e cazul	nu e cazul	4
3	Performing manual scaling on patients	Practical demonstrations	nu e cazul	nu e cazul	4
4	Performing manual scaling on patients	Practical demonstrations	nu e cazul	nu e cazul	4
5	Demonstration of the ultrasonic scaling technique	Practical demonstrations	nu e cazul	nu e cazul	4
6	Performing the ultrasonic scaling technique on patients	Practical demonstrations	nu e cazul	nu e cazul	4

7	Performing the ultrasonic scaling technique on patients	CBL session	nu e cazul	nu e cazul	4
8	Performing the ultrasonic scaling technique on patients	Practical demonstrations	nu e cazul	nu e cazul	4
9	Performing the ultrasonic scaling technique on patients	Practical demonstrations	nu e cazul	nu e cazul	4
10	Performing the ultrasonic scaling technique on patients	Practical demonstrations	nu e cazul	nu e cazul	4
11	Demonstration of sealing techniques	Practical demonstrations	nu e cazul	nu e cazul	4
12	Performing sealing on patients	Practical demonstrations	nu e cazul	nu e cazul	4
13	Performing sealing on patients	Practical demonstrations	nu e cazul	nu e cazul	4
14	Performing a complete oral prophylaxis session on the patient	Practical demonstrations	nu e cazul	nu e cazul	4

Bibliography

Concepts in Preventive Dentistry; Tohati A., Bechir F., 2019
 Primary Preventive Dentistry; Norman O. Harris, 8th Edition, 2009

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is relevant for the practical activity - scaling, professional brushing, sealing being very current methods in modern dental treatment.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	seminar	written exam	20
- practical activities	CBL session	practical evaluation	10
Final evaluation			
- theoretical final exam	sumative exam	MCQ	60
- practical final exam	practical examination	presentation	10
Minimal performance standards:			
Minimal performance standards:			
Minimum performance standard: The student must practically perform ultrasonic and manual scaling, preventive sealing of the pits and occlusal fissures, as well as design and perform a complete oral prophylaxis session.			
-To validate the evaluations, the grade of each component that is included in the calculation of the final grade must be at least 5.			
- the minimum conditions for admission to the final examination require the completion of a number of 3 ultrasonic or manual scalings as well as the sealing of a number of 2 teeth.			
-No more than 2 absences are allowed for the activity of practical works.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Petcu Blanka-Timea	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Occlusology			
2.2 Course coordinator: Conf dr Biriş Carmen-Ioana			
2.3 Practical activities coordinator(s): Conf univ. dr. Bechir Edwin- Sever			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 23		
- supplemental documentation at the library, from specialized information portals and in the field: 23		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 22		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 69		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular: conform curiculei
4.2 competency: cunostinte teoretice si practice aplicate pentru functionarea optima a sistemului oro facial

5. Conditions

5.1 for lectures: Power point,interactiv, discutii libere
5.2 for practical activities: activitati practice asociate cu teorie

6. Specific competencies acquired

6.1 professional competencies: aplicarea cuostintelor acumulate in toate domeniile stomatologiei
6.2 transversal competencies: depistarea si diagnosticarea corecta, urmata de un plan de tratament corespunzator a afectiunilor sistemului oro-facial cu consecinte asupra intregului organism
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis,evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the

managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

cunoasterea anatomiei capului si gatului,morfologiei dentare

7.2 Specific objectives:

asocierea elementelor de morfologie si functionalitate a sistemului oro facial

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to the physiology of the stomatognathic system	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
2	The oro facial system(OFS), particularities and means of self-defense	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
3	Essentials functions of SOF	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
4	Anthropometric points and plans	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
5	Determinants of occlusion	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
6	The anterior determinant of occlusion(dental)	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
7	The posterior determinant of occlusion(articular). The temporo mandibular joint(TMJ)- components	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
8	The neuromuscular functional determinant. Masticatory muscles	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
9	References positions of the mandible(Rest position, Maximum intercuspation, Centric Relation)	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
10	test	-	-	-	2
11	Mandibular Kinematic. Analysis of mandibular movements in sagittal,transversal,frontal planes. Functional occlusion	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
12	Occlusal concepts and theories. Gnathological aspects in prosthetic treatment	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
13	Principles and types of articulators and cast holders. Face bows and jaw registration	lecture, systematic and interactive display of information, conversation,power point presentation	-	-	2
14	test	-	-	-	2

Bibliography

Occlusion in Prosthodontic; Carmen Ioana Biris, Diana Cerghizan, Janosi Kinga Maria

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of the discipline, of the dental equipment. Training on occupational safety in the dental office. Introductory notions of patient examination.	Presentation	-	-	2
2	2 Impression of dental arches. Casting models.	Presentation	-	-	2
3	3 Impression of dental arches. Casting models.	Presentation	-	-	2
4	Static examination of the occlusion in the three planes. Occlusion curves.	CBL. Study model analysis	-	-	2
5	Static examination of the occlusion in the three planes. Occlusion curves.	Study model analysis	-	-	2
6	Clinical examination in occlusology. Case presentation.	Presentation and practical applications.	-	-	2
7	Clinical examination of the musculoskeletal system of the oro-facial system (OFS).	Practical application.	-	-	2
8	Clinical examination of the temporomandibular joint (TMJ)	Practical application.	-	-	2
9	Clinical examination of the fundamental positions of the mandible. Resting position, centric relationship (CR) and maximum intercuspation (MI). The landmarks of point-centric, long-centric and freedom in centric.	CBL. Practical application.	-	-	2
10	Clinical examination of mandibular kinematics in the three spatial planes (sagittal, transversal, horizontal). Recording of the intermaxillary relations with the help of the facial bow.	Practical application.	-	-	2
11	Clinical examination of mandibular kinematics in the three spatial planes (sagittal, transversal, horizontal). Recording of the intermaxillary relations with the help of the facial bow.	Practical application.	-	-	2
12	Mounting the models in the articulator.	Practical application.	-	-	2
13	Occlusal rebalancing therapy by selective grinding.	CBL. Practical application.	-	-	2
14	Occlusal rebalancing therapy by selective grinding.	Practical application.	-	-	2

Bibliography

- Okeson JP: Management of Temporomandibular Disorders and Occlusion. 7th Edition, Mosby, 2012
- PA notes
- Carmen Ioana Biris, Diana Cerghizan, Janosi Kinga Maria: Occlusion Prosthodontic, University Press, Tg. Mures, 2020

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

disciplina este punct cheie in homeostazia intregului organism

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Minimum standard of performance: Obtaining a minimum grade of 5 (five) for each component of the assessment requires: Lecture: - To know the basic notions regarding: - the fundamental positions of the mandible, - mandibular kinematics, - principles of use of articulators, - indications and contraindications for selective grinding. - To support and promote TBL sessions	test	20

- practical activities	Minimum standard of performance: Obtaining a minimum grade of 5 (five) for each component of the assessment requires: Practical works*: 1. To perform the static occlusion examination, 2. The dynamic occlusion examination is performed, 3. Carry out a recording of the intermaxillary relations with the facial bow, 4. Perform a clinical examination of the fundamental positions of the mandible, 5. To identify the correct occlusal (dento-dental) contacts and occlusal interferences. 6. Participate and promote CBL sessions.	test	20
Final evaluation			
- theoretical final exam	Obtaining a minimum grade of 5 (five)	test	50
- practical final exam	Obtaining a minimum grade of 5 (five)	test	10
Minimal performance standards: 5(five)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Biriş Carmen-Ioana	marti 12-13

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Surgical semiology. General surgery			
2.2 Course coordinator: Șef I dr Roșca Ancuța-Noela			
2.3 Practical activities coordinator(s):			
2.4 Year of study: III	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 3		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 8		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: no
4.2 competency: no

5. Conditions

5.1 for lectures: Teaching rooms equipped with video projector, PC, flipchart, or online presentations
5.2 for practical activities: Treatment rooms, outpatient hospital, patient wards, operating rooms for surgical instruments and sanitary materials, UMFST Simulation Center or online presentations

6. Specific competencies acquired

6.1 professional competencies: professional competencies: To identify and establish a correct diagnosis of surgical diseases. Developing and implementing adequate treatment plans (including surgery) for the identified diseases. Correct assessment of disease risks or the context of an individual /collective disease occurrence, followed by the selection and application of appropriate preventive measures. Addressing health/disease issues from the perspective of community specifics, directly related to the social, economic, and/or cultural conditions of that collectivity. Initiation and development of scientific research and/or formative in the surgical field.

Fulfillment in terms of efficiency and effectiveness of managerial duties imposed by certain professional roles
6.2 transversal competencies: Development, under coordination, of projects to solve particular problems in the surgical field, with the correct assessment of the workload, available resources, the time required for completion and risks; the application of 12/7/2020 https://apps.umfst.ro/Fisdis.php?oper=Dfisa&kfis=868 https://apps.umfst.ro/Fisdis.php?oper=Dfisa&kfis=868 2/7 professional and ethical rules in this field, as well as those of safety and health at work. Carrying out works or projects, and responsibly performing tasks specific to the role in a multidisciplinary team. Elaboration, writing, and presentation in Romanian and English of specialized works on current topics in the field of surgery, using various sources of information and tools.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Acquiring knowledge to diagnose diseases requiring surgical treatment. Understanding the main methods of surgical treatment and its physiological bases. Developing an interest in scientific research.
7.2 Specific objectives: Recall of students' knowledge of anatomy gained in previous years and acquiring surgical anatomy data necessary for understanding surgical procedures. Understanding the pathophysiological basis of surgical diseases. Gaining the knowledge necessary for early recognition and diagnosis of diseases requiring surgical treatment to minimize risks of surgery and for a better late prognosis in neoplastic diseases. Understanding the main methods of surgical treatment and its physiological basis. Understanding the specificity of the surgical patient, the need for appropriate preoperative preparation, the operative risk, and the methods of postoperative rebalancing and support until discharge. Information about the worldwide latest methods of surgical treatments and diagnosis. Acquiring surgical emergency maneuvers to save patients' lives in critical situations. Understanding the oncological principles of treatment. Counseling students interested in a surgical career. Developing of interest for scientific research by implying students in different kinds of research themes. Training in communication with patients and clinical examination.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Asepsis and antisepsis	Oral + multimedia presentation, including surgical / online or onsite films	no	Preoperative care Postoperative care	2
2	Hemorrhage and hemostasis	Oral + multimedia presentation, including surgical / online or onsite films	no	Anemia Hematemesis Hematuria Hemoptysis Rectal hemorrhage Coagulation disorders Blood transfusion / blood derivatives Hemolytic disease of the Rh	2
3	Surgical infections	Oral + multimedia presentation, including surgical / online or onsite films	no	Immunodeficiency Adenopathy Septicemia Skin infections	2
4	Trauma - contusions and wounds	Oral + multimedia presentation, including surgical / online or onsite films	no	Fall trauma Aggression / violence Pain management	2
5	Orthopedic trauma	Oral + multimedia presentation, including surgical / online or onsite films	TBL	Fall injuries Joint pain Joint edema Pain management Limb trauma	2
6	Burns and frostbite	Oral + multimedia presentation, including surgical / online or onsite films	no	Burns Pain Management	2

7	Semiology - general	Oral + multimedia presentation, including surgical / online or onsite films	no	Abdominal distension Abdominal pain Hepatomegaly Adenopathy Colon and rectal carcinoma Pancreatic carcinoma Gastric carcinoma Intestinal obstruction Peptic ulcer Pathology of the gallbladder Hernia Peritonitis Splenomegaly	2

Bibliography
1. Coros Marius et al. : General surgery, Volume I - Surgical semiology, Tg.Mures, 2015
2. Brunicardi F – Schwartz's Principles of Surgery 11th edition, Mc Graw-Hill Co., 2020
3. Sabiston D.C. – Textbook of Surgery, 19th edition, B.W. Saunders Co., Ed, Philadelphia, 2012

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The functionality of the hospital, the circuit of the patients, primary records	Teaching theoretical notions in oral form and media presentations. Visiting the wards and departments of the hospital. Familiarization with the primary records (consultation register, observation sheet, referral note, death certificate, medical leave, prescription, etc.). Online / Onsite	no	Preoperative care Postoperative care	2
2	Surgical instruments • Cutting tools : scalpel (fixed blade, interchangeable blade, available), surgical scissors (dressing, dissection, straight, curved, cooper) • Instruments for grasping and fixing : anatomical forceps and surgical hemostatic forceps (Pean, Kocher, mosquito, Halsted) port buffer clamps, forceps fields (Doyen, Bachhaus) clamp	Presentation of surgical instruments and how to use them. Practical use of tools by students online / onsite presentation	no	Preoperative care Postoperative care	2
3	Sterilization methods (asepsis and antisepsis) • Autoclave and oxyethylene sterilizer • Surgical hand washing • Wearing a sterile gown and surgical gloves	Presentation of sterilization devices and how to use them in a practical way. Hand disinfection. Dressing in a robe and surgical gloves practically	no	Preoperative care Postoperative care	2
4	Injections and infusions • Injection id, sc, im, iv, ia • Infusions • Central venous catheterization • PVC measurement	Types of injections id, sc, im, iv. Performing injections. Preparation of the infusion kit Effective measurement of PVC in patients	no	Preoperative care Postoperative care, Acid-base imbalance	2
5	Surgical dressing and bandage • materials and technique of dressing, types of dressing (protective, absorbent, compressive, occlusive, elastic, improvised) • methods of fixing the dressing • methods of driving the buttocks (types of windings) circular, spiral, helical, inverted, spike on different areas	Practical making of dressings and bandages for hospitalized patients and colleagues	no	Preoperative care Postoperative care	2

6	Dressing and bandage • windings by regions: circular winding of the fingers, thumb of the thumb, ear of the hand, twisted winding, spiral	Practical making of dressings and bandages for hospitalized patients and colleagues.	no	Preoperative care Postoperative care	2
7	Cardio-respiratory resuscitation • Cardiac resuscitation technique • Maintaining airway permeability (mandible mobilization maneuvers, cannulas) • Types of artificial respiration	Performing resuscitation maneuvers on the manikin.	no	Cardio-respiratory arrest Disorders of consciousness,	2
8	Oxygen Therapy and Tracheostomy	Theoretical and practical presentation of oxygen administration methods. Types of devices. Presentation of tracheostomy cannulas and tracheostomy technique	no	Cardio-respiratory arrest Disorders of consciousness,	2
9	Hemostasis and blood transfusion • Temporary hemostasis (by compression, tourniquet, forceps) • Blood transfusion - determination of blood groups - determination of Rh - compatibility tests a transfusion technique	Practical demonstrations of temporary hemostasis methods. Practical performance of blood group determination and transfusion preparation.	no	Anemia Hematemesis Hematuria Hemoptysis Rectal bleeding Coagulation disorders Blood transfusion / blood derivatives	2
10	Surgical operations • Preparation of the operating field • Incision, contraincision • Excision • Wound drainage	Theoretical notions about surgery. Preoperative preparation. Operator field isolation. Operating team. Practical demonstrations, assistance in operations in the operating room. Theoretical data about drainage and presentation of drainage types	no	Preoperative care Postoperative care	2
11	Manual and mechanical surgical suture • Surgical knots	Theoretical notions about surgery. Preoperative preparation. Operator field isolation. Operating team. Practical demonstrations, assistance in operations in the operating room. Theoretical data about drainage and presentation of drainage types	no	Preoperative care Postoperative care	2
12	Surveys, washes, enemas • S waves: - bladder: Nelaton, Thiemann, Petzer, Foley - gastric: Faucher, double lumen - duodenal: Einhorn - intestinal: Miller-Abbott - Sengstaken-Blackmore, Linton-Nachlas • Survey technique and gastric lavage • Bladder survey technique • Mounting the Blackmore probe • enemas	Theoretical data on surveys, washes and enemas. Practical presentation of cannulas and probes (nasogastric, urinary, rectal). Participation in digestive endoscopies	no	Urine retention, Malabsorption, Malnutrition, Abdominal distension, Vomiting urinary incontinence, Vomiting, Urinary tract obstruction	2
13	Punctures and biopsies • Puncture • Pleural • Pericardial	Presentation of the technique of punctures, indications, contraindications and possible accidents. Presentation of the types	no	Pleurisy pneumothorax	2

	• Abdominal • Types of biopsies, materials, and technique	of punctures, indications, technique and possible incidents.			
14	General clinical examination on devices and systems of the surgical patient	Practical performance of the clinical examination (inspection, palpation, percussion, auscultation)	no	Preoperative care Postoperative care	2

Bibliography

Bibliography

1. Coros Marius et al. : General surgery, Volume I - Surgical semiology, Tg.Mures, 2015
2. Brunicardi F – Schwartz's Principles of Surgery 11th edition, Mc Graw-Hill Co., 2020
3. Sabiston D.C. – Textbook of Surgery, 19th edition, B.W. Saunders Co., Ed, Philadelphia, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is adapted to the training needs of young doctors who, upon graduation, will be able to provide general medical care to patients in the public and private health system.

Surgical diseases represent an especially important segment of human pathology with an increasing incidence. Almost any disease by its nature or its complications needs at a time a solution that involves an invasive method of surgical nature in its many variants. Surgery is spectacular, with immediate results in lifesaving and students acquire knowledge about first emergency measures even within courses and internships of surgery. All these aspects make surgical knowledge an essential component indispensable to any physician at any level of training they are. This surgical knowledge cannot be separated from another knowledge necessary to a physician. In addition to information specific for surgical treatment of diseases, students acquire, during courses of surgical pathology, other information from various fields: anatomy, pathophysiology, epidemiology, oncology, medical ethics, research, etc.. still useful regardless of the specialty they will get to practice.

All these aspects make the surgical specialty an essential specialty in the formation of highly qualified physicians, whose final aim is to save as many lives as possible and to alleviate suffering, basic aspects of labor market criteria in the medical field. Transmitting information to students about modern surgical techniques facilitates their integration into top surgical teams. Students are trained in various activities of scientific research and professional formation preparing them for and in various activities of scientific research and professional formation, preparing them for an academic career.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	The rating is based on the score of the TBL tests.	During the module, there will be two short tests with five multiple choice questions each.	15
- practical activities	Evaluation is based on a score calculated according to achieving specific objectives during the surgical case presentation	During the module, each student will have to do a case presentation and participate to a CBL. Evaluation is made upon the quality of presentation and participation to CBL sessions.	15
Final evaluation			
- theoretical final exam	The rating is based on the score achieved at the final theoretic test.	Multiple choice grid tests that cover all topics across the syllabus. The test is given on paper, or online.	40
- practical final exam	Evaluation is based on a score calculated according to achieving specific objectives in presenting the surgical case.	Clinical case presentation. The exam lasts 60 minutes (20 minutes for examination, 20 minutes for thinking, and 20 minutes for exposure)	30

Minimal performance standards:

Minimal performance standards: The minimum criteria for validating the evaluations during the semester:

- Completion of at least 80% of classes and internships
- Participating during at least one TBL session
- Doing at least one surgical case presentation

The minimum conditions for admission to the final examination and the minimum specific maneuvers performed:

- Achieving passing grades (>5) both at the theoretical (TBL) and the practical (CBL) exams

The minimum requirements for passing the final assessment (detailed for each component of the final grade)

o At the theoretical exam, the grid test type, the passing grade must be at least 5:00 calculated with two decimals. Students who did not obtain a passing grade (score) on the TBL test are not admitted to the final theoretical test, but they may still attend the practical exam when other conditions are met.

o The student can be admitted to the practical test if he obtained a passing grade on the CBL test and completed at least 80% of internships. Even if the student did not obtain a passing grade on the practical test, he may be

admitted to the theoretical test if he obtained a passing grade on the TBL test. o The minimum passing grade for the practical exam is 5:00 calculated with two decimals o All intermediate grades (scores) will have two decimals, except the final general grade. o To pass the final assessment, the student must obtain a general final grade of at least 5. The final score, with two decimals will be transformed in a final grade without decimals. The final score will be rounded upwards starting with the decimal X:50, and downwards from the decimal X:49.

11. Must seen clinical situation list

1. organizing the surgery service 2. drafting / completing the observation sheet and medical documents in surgery 3. knowledge and recognition of surgical semiology 4. examination of the surgical patient 5. knowledge of the notions of asepsis and antisepsis 6. knowledge of surgical instruments 7. knowledge of basic medical-surgical maneuvers (injections, infusions, sutures and surgical knots, incisions, excisions, drainage, urethro-bladder probe, enemas, preparation of the operating field 8. making a bandage 9. performing cardio-respiratory resuscitation and oxygen therapy maneuvers 10. performing a tracheostomy 11. performing a temporary and definitive hemostasis method 12. performing a puncture and a biopsy

12. Clinical / practical abilities

Achieving minimum practical skills in surgery: 1. organizing the surgery service 2. drafting / completing the observation sheet and medical documents in surgery 3. knowledge and recognition of surgical semiology 4. examination of the surgical patient 5. knowledge of the notions of asepsis and antisepsis 6. knowledge of surgical instruments 7. knowledge of basic medical-surgical maneuvers (injections, infusions, sutures and surgical knots, incisions, excisions, drainage, urethro-bladder probe, enemas, preparation of the operating field 8. making a bandage 9. performing cardio-respiratory resuscitation and oxygen therapy maneuvers 10. performing a tracheostomy 11. performing a temporary and definitive hemostasis method 12. performing a puncture and a biopsy

13. Appointment timetable (for students)

Şef I dr Roşca Ancuța-Noela	

Head of departament	Course coordinator	Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Conservative dentistry (simulation)			
2.2 Course coordinator: Prof dr Monea Monica-Dana			
2.3 Practical activities coordinator(s): Șef lucr. dr. Stoica Alexandra-Mihaela, Șef lucr. dr. Hănțoiu Tudor, Șef lucr. dr. Vlad Ramona-Elena			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 60		
- supplemental documentation at the library, from specialized information portals and in the field: 15		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 3		
- examinations: 4		
- other activities: 5		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Videoprojector, laptop
5.2 for practical activities:
Phantom, hand pieces, burs, endodontic files

6. Specific competencies acquired

6.1 professional competencies:
Knowledge about tooth structure, hard dental tissue histology, and decay etiopathogenic mechanism. Morphopathological changes description and clinical aspects in dental carious lesion. Knowledge about investigation and diagnosis methods. Knowledge about cavity preparation.
6.2 transversal competencies:
Knowledge about chronological steps in dental treatment, and how to chose the appropriate dental material for best treatment results, for each clinical case. Helping the student to realize the importance of

periodical updating with literature resources, in order to elevate theoretical and practical knowledge. The importance of doctor-patient relation, such as the treatment should meet the patient's expectations.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Study of dental pathology, based on most recent fundamental and applicative research

7.2 Specific objectives:

Correlation between lectures and practical part, focused on etiology and treatment of dental carious lesion.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to operative dentistry, general considerations, epidemiology	Multimedia and oral presentation	-	-	2
2	Hard dental structures and carious lesion	Multimedia and oral presentation	-	-	2
3	Nutrients in the etiopathogenesis of dental carious lesion	Multimedia and oral presentation	-	-	2
4	Saliva (buccal liquid)	Multimedia and oral presentation	-	-	2
5	Etiology of dental caries: pathogenic bacterial plaque	Multimedia and oral presentation	-	-	2
6	Explosive carious lesion. Caries on root surfaces	Multimedia and oral presentation	-	-	2
7	Treatment principles in dental carious lesions	Multimedia and oral presentation	-	-	2
8	Morphopatology of carious lesion	Multimedia and oral presentation	-	-	2
9	Classification and diagnosis of simple carious lesions	Multimedia and oral presentation	-	-	2
10	Direct and indirect pulp capping procedures	Multimedia and oral presentation	-	-	2
11	Pain in carious lesion treatment	Multimedia and oral presentation	-	-	2
12	Secondary decay and recurrent carious lesion	Multimedia and oral presentation	-	-	2
13	Cavity preparation technique	Multimedia and oral presentation	-	-	2
14	Isolation of the operating field	Multimedia and oral presentation	-	-	2

Bibliography

1. Theodore M. Roberson, Harald O. Hezmann, Edward J. Swift: Sturdevant's Art and Science in Operative Dentistry 4th edition, Mosby, 2002
2. Ole Fejerskov, Edwina A.M. Kidd: Dental Caries- the disease and its clinical management, Blackwell Munksgaard, 2003

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Instruments and equipment for tooth preparation	Multimedia presentation and practical activity	-	-	4

2	Black's principles for cavity preparation	Multimedia presentation and practical activity	-	-	4
3	Class I cavity preparation	Multimedia presentation and practical activity	-	-	4
4	Class II cavity preparation	Multimedia presentation and practical activity	-	-	4
5	Class III cavity preparation	Multimedia presentation and practical activity	-	-	4
6	Class IV cavity preparation	Multimedia presentation and practical activity	-	-	4
7	Class V cavity preparation	Multimedia presentation and practical activity	-	-	4
8	Class VI cavity preparation	Multimedia presentation and practical activity	-	-	4
9	Cavity preparation - review	CBL. Multimedia presentation and practical activity	-	-	4
10	Teeth separation	Multimedia presentation and practical activity	-	-	4
11	Isolation of operating site	CBL. Multimedia presentation and practical activity	-	-	4
12	Instruments for endodontic treatment	Multimedia presentation and practical activity	-	-	4
13	Matrix and matrix bands	Multimedia presentation and practical activity	-	-	4
14	Temporary and long-term coronal restorations	Multimedia presentation and practical activity	-	-	4

Bibliography

1. Theodore M. Roberson, Harald O. Hezmann, Edward J. Swift: Sturdevant's Art and Science in Operative Dentistry 4th edition, Mosby, 2002
2. Ole Fejerskov, Edwina A.M. Kidd: Dental Caries- the disease and its clinical management, Blackwell Munksgaard, 2003

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	According to specific aspects of the subject	CBL	30
Final evaluation			
- theoretical final exam	According to specific aspects of the subject	Multiple choice test (written exam)	50
- practical final exam	According to specific aspects of the subject	Practical examination, oral presentation/ written exam	20
Minimal performance standards: A grade of minimum 5.00 both in theoretical and practical examination, final average above 4.50. Basic knowledge of the aspects that were studied is required.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Monea Monica-Dana	30 de minute după fiecare activitate practică

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical semiology. Internal medicine			
2.2 Course coordinator: Prof dr Tilinca Mariana-Cornelia			
2.3 Practical activities coordinator(s): Prof dr Tilinca Mariana-Cornel			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 0		
- supplemental documentation at the library, from specialized information portals and in the field: 0		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 0		
3.9 Total hours: 56		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Video projector, PC computer
5.2 for practical activities:
Video projector, PC computer, Continuous hospitalisation, exploration laboratories

6. Specific competencies acquired

6.1 professional competencies:
Acquiring the basic learning concept regarding the diagnosis and treatment algorithm in internal medicine
Developing a complex and individualized treatment plan based on clinical examination, case presentation, invasive and non-invasive paraclinical explorations;
Acquiring the basic learning concept regarding the clinical examination of the patient with cardiovascular, digestive, renal, pulmonary and haematological diseases
Acquiring the basic learning concept of the communication with the patient and the norms of professional and medical ethics in the relationship physician-patient-family
Preparing the patient for non-invasive and invasive investigations

6.2 transversal competencies: Identifying role and responsibility in a multidisciplinary team; efficient use of information sources, on-line educational platform, with the purpose of elaborating and presenting an article
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Understanding the basic notions regarding the diagnosis and therapy of cardiovascular, hepatic, digestive, hematological and metabolic diseases
7.2 Specific objectives: Understanding the risk factors for different diseases, and the notions of their medical management control, the pharmacological and interventional methods of therapy for various medical conditions

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The pathology of the respiratory system. Specific semiology. Upper respiratory tract disorders	oral, multimedia presentations	-	dyspnoea	2
2	Pneumonia. Pleurisy. Pulmonary tuberculosis	oral, multimedia presentations	-	dyspnoea	2
3	Chronic obstructive pulmonary disease. Asthma. Lung cancer	oral, multimedia presentations	-	dyspnoea	2
4	Cardiovascular pathology. The semiology of the cardiovascular system. Myocarditis. Pericarditis	oral, multimedia presentations	-	chest pain	2
5	Valvulopathies. Cardiomyopathies	oral, multimedia presentations	-	chest pain	2
6	Hypertension. Pulmonary heart disease	oral, multimedia presentations	-	chest pain	2
7	Peripheral arterial disease. Peripheral venous disease	oral, multimedia presentations	TBL 1	Peripheral vascular disorders	2
8	Chronic ischemic heart disease; Acute myocardial infarction. Cardiac arrhythmias	oral, multimedia presentations	-	chest pain	2
9	Digestive pathology. Digestive syndromes. Oesophageal disorders	oral, multimedia presentations	-	abdominal pain. abdominal distension	2
10	Gastroduodenal, biliary, intestinal pathology	oral, multimedia presentations	-	abdominal pain, abdominal distension	2
11	Renal disorders - urinary tract infections, kidney stones	oral, multimedia presentations	-	dysuria	2
12	Renal disorders - glomerulonephritis, pyelonephritis, acute and chronic kidney disease	oral, multimedia presentations	-	dysuria	2
13	Diabetes mellitus	oral, multimedia presentations	TBL 2	Acid-base imbalance	2
14	Hematological syndromes. Anemia. Leukemia	oral, multimedia presentations	-	Anemia	2

Bibliography

Bibliografie

1. Tilinca M.C., Mureşan S., Schmiedt R.A., Murariu E. Internal Medicine for dentistry students. Editura University Press Târgu Mureş, 2021, 125 pg, ISBN 978-973-169-703-1
2. Kumar and Clark's Clinical Medicine, 10th edition 2021, Elsevier
3. Crispian Scully - Scully's Medical Problems in Dentistry 2014, Elsevier

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Clinical examination of the respiratory system	multimedia presentations, clinical cases	-	dyspnea	2
2	Clinical examination of the vascular system	multimedia presentations, clinical cases	-	chest pain	2
3	The methodology of performing the exercise test	multimedia presentations, clinical cases	-	chest pain	2
4	The methodology of performing the Holter ECG and TA	multimedia presentations, clinical cases	-	chest pain, palpitations	2
5	The methodology of performing the coronary angiography and angioplasty	multimedia presentations, clinical cases	-	chest pain	2
6	Acute and chronic pulmonary diseases	multimedia presentations, clinical cases	-	dyspnea	2
7	Acute myocardial infarction	multimedia presentations, clinical cases	-	chest pain	2
8	Arterial hypertension, Pulmonary thromboembolism	multimedia presentations, clinical cases	-	chest pain	2
9	Peripheral artery and venous diseases	multimedia presentations, clinical cases	-	Peripheral vascular disorders	2
10	Digestive system disorders	multimedia presentations, clinical cases	-	abdominal pain	2
11	Kidney pathology	multimedia presentations, clinical cases	-	abdominal pain	2
12	Diabetes mellitus	multimedia presentations, clinical cases	-	metabolic disorders	2
13	Anemic syndromes	multimedia presentations, clinical cases	-	anemia	2
14	Notions of disease prophylaxis	multimedia presentations, clinical cases	-	chest pain, anemia, abdominal pain	2

Bibliography

1. T. Benedek. I Benedek-Curs de medicina interna pentru studentii de la medicina dentara –2013
2. Carmen Ginghina –Mic tratat de cardiologie . editura Academiei Romane 2010
3. 2013I. Gherasim – Medicina interna – Patologia aparatului respirator Vol 1 Bucuresti , 2007

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the subject is corroborated with the need to acquire the basic notions regarding the assessment of comorbidities of patients.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	test grila	10
- practical activities	clinical case	case presentation	20
Final evaluation			
- theoretical final exam	examen	test grila	60
- practical final exam	examen	test grila	10

Minimal performance standards:

Obtaining at least 50% of the multiple choice test

Performing the anamnesis of the complete clinical examination, as well as some basic diagnostic operations, the request of the appropriate complementary examinations, formulating a positive and differential diagnosis;

Performing an individualized therapeutic plan and performing basic therapeutic maneuvers, including those of qualified first aid

11. Must seen clinical situation list

Resuscitation, monitoring vital parameters in acute cardiovascular event, Short-term strategy in severe anemia, acute respiratory failure, HDS maneuvers, therapeutic strategies and maneuvers in life threatens arrhythmias

12. Clinical / practical abilities

Performing the anamnesis of the adult patient

Performing the general objective examination of the adult patient

Evaluation of adult nutrition

Enumeration and hierarchy of differential diagnoses

Enumeration and support of the elements of the positive diagnosis

Oxygen administration

Temperature monitoring, TA, EKG, AV, SaO₂

Observation and description of arterial catheter mounting

Observation and description of the insertion of the transvenous temporary pacemaker

Observation and description of defibrillation and cardioversion

Observation and description of the exercise test

Observation and description of osteomedullary biopsy

Performing and interpreting EKG

Interpretation of the written results of Holter EKG monitoring

Performing and interpreting the summary urine test

Interpretation of written results of dosing of chemical components in the blood

Interpretation of simple radiography

CT interpretation

Interpretation of ultrasound

Interpretation of written ultrasound results

Interpretation of the written results of cardiac and Doppler ultrasound

Interpretation of angiography

Interpretation of the written results of angiography

Interpretation of the written results of non-invasive vascular examinations

Completing the anamnesis and the objective examination in the medical documents

Recording the patient's evolution in the observation sheet

Writing the epicrisis

Writing the medical letter

Oral presentation of cases

Presentation of written cases / poster

13. Appointment timetable (for students)

Prof dr Tilinca Mariana-Cornelia

30 min dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Technology of dental prostheses (2)			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): Șef I dr.Borș Andrea-Izabella			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 25		
- supplemental documentation at the library, from specialized information portals and in the field: 22		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 5		
- examinations: 4		
- other activities: 0		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Lecture hall equipped with multimedia equipment
5.2 for practical activities:
Specific dental laboratory, working tables, instruments, equipment and various dental materials necessary for the working stages in manufacturing dental prostheses.

6. Specific competencies acquired

6.1 professional competencies:
-Acquiring theoretical and practical knowledge using their own experiences in the process of achieving the technologies used in current practice for manufacturing the mobile and mobilized dental prostheses.
- Acquiring theoretical and practical knowledge regarding the achievement of dental prostheses through various technologies and the appropriate use of the dental materials in this process.
-Students, these future doctors, must know thoroughly and accurately all stages of manufacturing the partial and complete removable dentures, both, the clinical and laboratory phases, therefore they will be able to conceive a correct design of these restorations.

6.2 transversal competencies: -The dentist's supporting team aids in providing oral health services: the students will understand the need for proper and orderly communication with both, dental technicians and dentist or teacher. -The complexity of prosthodontics as well as the scientific and technological progress, makes the field of technology of dental prostheses absolutely necessary to be studied separately, in order to remain an well-defined discipline. -Marketing and the dental laboratory management through the knowledge of equipping, , techniques, classical and modern technologies it will help to achieve appropriate dental prosthesis.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The students will acquire the knowledge on specific technological procedures performed in dental laboratory to achieve dental prostheses in view of prosthetic restorations (C4).
7.2 Specific objectives: -Acquiring theoretical and practical knowledge on the procedures and sequencing for obtaining prosthetic works. -Acquiring the ability to conceive mobile and mobilized restorations. -Acquiring basic skills to perform or correct the laboratory phases in the manufacture of dental prostheses.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Mobile dentures: definitions, basic concepts, classifications, manufacturing technologies.	Oral and multimedia presentation.	Two hours course in english.	-	2
2	Complete denture: technology and manufacturing phases.	Oral and multimedia presentation.	Two hours course in english.	-	2
3	Complete denture manufacturing steps: the primary impression and the primary cast.	Oral and multimedia presentation.	Two hours course in english.	-	2
4	Complete denture manufacturing steps: the special tray.	Oral and multimedia presentation.	Two hours course in english.	-	2
5	Complete denture manufacturing steps: the functional impression and master cast.	Oral and multimedia presentation.	Two hours course in english.	-	2
6	Complete denture manufacturing steps: the occlusion rim.	Oral and multimedia presentation.	Two hours course in english.	-	2
7	Complete denture manufacturing steps: wax-up and packing methods.	Oral and multimedia presentation.	Two hours course in english.	-	2
8	Achieving acrylic based complete denture in practice. Modern technologies.	Oral and multimedia presentation.	Two hours course in english.	-	2
9	Relining, rebasing and optimising complete dentures.	Oral and multimedia presentation.	Two hours course in english.	-	2
10	Removable partial dentures: definitions, basic concepts, classifications, manufacturing technologies.	Oral and multimedia presentation.	Two hours course in english.	-	2
11	The technology of manufacturing acrylic based removable partial dentures.	Oral and multimedia presentation.	Two hours course in english.	-	2
12	The technology of manufacturing metal framed removable partial dentures.	Oral and multimedia presentation.	Two hours course in english.	-	2
13	Stability, support and maintenance systems for removable partial dentures.	Oral and multimedia presentation.	Two hours course in english.	-	2
14	Modern technologies of manufacturing and optimizing removable partial dentures.	Oral and multimedia presentation.	Two hours course in english.	-	2

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C, Camarasan A.: Technolgy of single unit dental prosthesis, Editura University Press, Tîrgu-Mureş, 2022.
2. Molnar-Varlam C., Grozescu V., Borş A. : Proteze dentare fixe - aspecte clinico-tehnice, Editura University Press, Tîrgu-Mureş, 2015.

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The technology of complete dentures. The impression and the primary cast.	Practical demonstration, complete edentulous phantom impressions and pouring casts.	Students will take impressions on edentulous phantoms and will pour primary casts. Grading (LR).	-	4
2	The technology of complete dentures. Manufacturing shellac base special tray.	Practical demonstration, upper and lower shellac special tray.	Manufacturing shellac special tray. Grading (LR).	-	4
3	The technology of complete dentures. Manufacturing self curing acrylic special tray	Practical demonstration, self curing acrylic special tray.	Manufacturing self curing acrylic special tray. Grading (LR).	-	4
4	The technology of complete dentures. Manufacturing occlusion rims.	Practical demonstration, occlusion rims.	Manufacturing occlusion rims. Grading (LR).	-	4
5	The technology of complete dentures. Evaluation of acquired information.	Practical demonstration, mounting casts in articulator.	Mounting casts in articulator. Grading (LR).	-	4
6	The technology of complete dentures: modeling wax pattern, mounting teeth, denture processing.	Practical demonstration, modeling wax pattern, mounting teeth, denture processing.	Modeling wax pattern, mounting teeth for complete dentures.. Grading (LR).	-	4
7	The technology of complete dentures. Denture processing for acrylic based complete dentures.	Practical demonstration . for acrylic based complete denture processing.	Multimedia presentation of the clinical and technological stages steps in manufacturing complete dentures. (LR).	-	4
8	The technology of acrylic based removable partial dentures.	Practical demonstration, partial edentulous phantom impressions and pouring casts.	Partial edentulous phantom impressions and pouring casts. Grading (LR).	-	4
9	The technology of acrylic based removable partial dentures.	Practical demonstration, wax pattern for acrylic based removable partial denture, including wired clasps.	Modeling wax pattern for acrylic based removable partial denture. Grading (LR).	-	4
10	Modern technologies in manufacturing acrylic based removable partial dentures. Evaluation of acquired information through test.	Educational video.	Grading, seminar(LR).	-	4
11	The technology of metallic framed removable partial dentures (Skeletal RPD).	Practical demonstration with manufacturing metallic based removable partial dentures.	Written skills in LR.	-	4
12	The technology of metallic framed removable partial dentures (Skeletal RPD).	Practical demonstration, manufacturing wax pattern for metallic based removable partial dentures with preformed wax elements.	Manufacturing wax pattern for metallic framed removable partial dentures using preformed wax elements . Grading (LR).	-	4
13	The technology of metallic framed removable partial dentures (Skeletal RPD).	Multimedia presentation about modern technologies in manufacturing RPDs.	Written skills in LR.	-	4
14	Review, recovering. Evaluation of acquired knowledge.	Oral and individual test.	Seminar RPDs. Grading (LR).	-	4
Bibliography 1. Bors A, Szekely M, Molnar-Varlam C, Camarasan A.: Technolgy of single unit dental prosthesis, Editura University Press, Tîrgu-Mureş, 2022. 2. Molnar-Varlam C., Grozescu V., Borş A. : Proteze dentare fixe - aspecte clinico-tehnice, Editura University Press, Tîrgu-Mureş, 2015.					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects through two tests.	Classification based on individual test.	10
- practical activities	Manufacturing one of the steps of realizing prosthetic works, acquired during the semester.	Activity performed in the form of test and exercises during the semester.	20
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects of the course topics.	Written exam as a test.	40
- practical final exam	Manufacturing one of the steps of realizing prosthetic works, acquired during the semester and one question from the semester material.	Practical exam	30
Minimal performance standards: Obtaining the minimum mark of 5 (five) for each component of the assessment: to know the basics of technology of dental prostheses, not more than 20% unjustified absences and recovered from practical work, to realize the phases of work of basic technical stages.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	30 min după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dermatology			
2.2 Course coordinator: Șef I dr Badea Mihail-Alexandru			
2.3 Practical activities coordinator(s): Șef I dr Badea Mihail-Alexandru			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 3		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 4		
- examinations: 4		
- other activities: 3		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: -Anatomy, histology
4.2 competency: -

5. Conditions

5.1 for lectures: PPT materials, on line platform
5.2 for practical activities: Clinical cases

6. Specific competencies acquired

6.1 professional competencies: Carrying out the anamnesis, the complete clinical examination in dermatology, - Performing basic diagnostic procedures the patient with dermatological disorders - Formulation of a positive and differential diagnosis in dermatology - Realization of an individualized therapeutic plan for the patient with dermatological and venereal diseases - Presentation of a clinical case of dermatology - Requesting appropriate complementary examinations in pathology
6.2 transversal competencies: - Acquiring both oral and written communication skills with the patient with dermatological and venerological diseases - Realization of a work / project, executing responsibly role-specific tasks in a team

- Realization of projects under coordination, for solving some problems specific to the Dermatology Field, with the correct evaluation of workload, available resources, time required completion and risks, in conditions of application of deontological norms and professional ethics in the field, as well as security and occupational health

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Deepening basic knowledge in dermatology and Venereology

7.2 Specific objectives:

Knowledge of the pathology specific to dermatology and venereology: dermatological semiology, skin infections, allergic dermatoses, dermatological oncology and notions of dermatological therapy

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Local dermatological examination - Examination cutaneous organ. Rash examination: elementary lesions, distribution of lesions, lesion morphology - size, color, consistency, configuration, edges, surface. Examination of mucous membranes, hair and nails. Subjective symptoms. Installation history symptoms. The evolution of the eruption	Oral presentation, Powerpoint presentation	None	bullous / vesicular eruption, pathologies of oral cavity, pruritus, leukorrhea, adenopathy, edema	2
2	Viral skin infections - Warts. Genital warts Skin infections caused by herpesviruses. Moluscum contagios. Pityriasis rosea Skin mycosis - Dermatophytosis. Candidiasis Bacterial skin Infections Dermatoses caused by animal parasites :Scabies, Pediculosis Mycobacterial infections: Typical and atypical cutaneous tuberculosis	Oral presentation, Powerpoint presentation	None	sexually transmitted disorders, pathologies of oral cavity, pruritus, leukorrhea, pruritus, leukorrhea, adenopathy, edema	2
3	Allergic dermatoses - Eczema. Urticaria. Ide reaction. Itching. Stasis dermatitis. Vasculitis. Chronic venous insufficiency. Chronic leg ulcer .Erythema nodosum Henoch-Schonlein purpura Connective tissue diseases - Lupus erythematous. Scleroderma. Dermatomyositis. Mixed connective tissue diseases	Oral presentation, Powerpoint presentation	None	edema, pruritus, bullous / vesicular eruption, skin ulcers, edema, bullous / vesicular eruption, pathologies of oral cavity, pruritus, leukorrhea, adenopathy,	2
4	Bullous dermatoses - Pemphigus, Herpetiform dermatitis. Herpes gestations. Pemphigoid bulos. Epidermolysis bullousa. Skin porphyria Lyell syndrome. Polymorphous erythema. Papulo-squamous diseases - Lichen planus. Psoriasis. Diseases of the sebaceous glands - Acne. rosacea	Oral presentation, Powerpoint presentation	None	bullous / vesicular eruption, pathologies of oral cavity, edema, pruritus, bullous / vesicular eruption, psoriasis, acne	2
5	Benign skin tumors. Dermatoses precancerous - Seborrheic warts. Keratoacanthoma. Sebaceous adenomas. Jokes. Molluscum pendulum. Hemangiomas. Lymphangiomas. Lipoame. Nevii. Melanoza Dubreuilh. Bowen's disease. Paget's disease Xeroderma pigmentosum	Oral presentation, Powerpoint presentation	None	adenopathy, edema, skin cancers, skin ulcers adenopathy, edema, skin cancers, skin ulcers	2

	Malignant skin tumors - Epitheliomas basal cell carcinoma. Squamous cell carcinoma. Melanoma. Other skin tumors: Kaposi's sarcoma, Dermatofibro-sarcoma, skin lymphomas.				
6	Sexually transmitted diseases: Generalities. Pathogens. Syphilis - Syphilis primary. Secondary syphilis. Tertiary syphilis. Congenital syphilis. Serology. Treatment. Other sexually transmitted diseases- Urethritis gonococcal and nongonococcal. Trichomoniasis. Inguinal lymphogranulomatosis. Genital infections with Chlamydia.	Oral presentation, Powerpoint presentation	None	sexually transmitted disorders, pathologies of oral cavity, pruritus, leukorrhea, adenopathy, edema	2
7	Skin adnexal disorders: Alopecia-localized and diffuse. Nail disorders	Oral presentation, Powerpoint presentation	None	hair disorders, adenopathy, edema	2

Bibliography

Mandatory bibliography:

1. Fekete Gyula László, Fekete László, Toth Mate; Dermatology and venerology for dental students. Editura University Press, Tîrgu Mureş, 2021, 126 pg,
2. GL Fekete, L Fekete- Basic Dermatology for Medical Students, University Press, 2015
3. KUMAR & KLARK'S. Clinical Medicine. Tenth Edition

Support bibliography:

3. SH Morariu - Atlas de Dermato – Venerologie, Vol. I, University Press, 2011,
4. SH Morariu - Atlas de Dermato – Venerologie, Vol. II, University Press, 2013
5. Burgdorf, W.H.C.; Plewig, G.; Wolff, H.H.; Landthale - Braun-Falco's Dermatology. Springer Verlag 2009

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Skin structure and functions. Differential diagnosis in dermatology	Oral and multimedia presentation	None	bullous / vesicular eruption, pathologies of oral cavity, pruritus, leukorrhea, adenopathy, edema	2
2	Paraclinical examinations in dermatology	Oral and multimedia presentation	None	skin cancers, skin ulcers, sexually transmitted disorders, skin infections, candidiasis, psoriasis, acne	2
3	Topical treatment in dermatology	Oral and multimedia presentation	None	Itching, diseases of hair, skin ulcers, purpura, acne, psoriasis	2
4	Drug reactions	Oral and multimedia presentation	None	Itching, bullous / vesicular eruption, purpura, edema	2
5	Differential diagnosis related to anatomical regions	Oral and multimedia presentation	None	skin cancers, skin ulcers, sexually transmitted disorders, skin infections, candidiasis, psoriasis, acne	2
6	Oral disorders Genital disorders in women Genital disorders in men	Oral and multimedia presentation	None	bullous / vesicular eruption, pathologies of oral cavity, skin cancers, skin ulcers, sexually transmitted disorders, skin infections, candidiasis	2
7	Recapitulative lecture	Oral and multimedia presentation	None	Itching, diseases of hair, skin ulcers, purpura, acne, psoriasis, bullous / vesicular eruption, pathologies of oral cavity, skin cancers, skin ulcers, sexually transmitted disorders, skin infections, candidiasis	2

Bibliography

Mandatory bibliography:

1. Fekete Gyula László, Fekete László, Toth Mate; Dermatology and venerology for dental students. Editura University Press, Tîrgu Mureş, 2021, 126 pg,
2. GL Fekete, L Fekete- Basic Dermatology for Medical Students, University Press, 2015
3. KUMAR & KLARK'S. Clinical Medicine. Tenth Edition

Support bibliography:

- 3.SH Morariu - Atlas de Dermato – Venerologie, Vol. I, University Press, 2011,
 4.SH Morariu - Atlas de Dermato – Venerologie, Vol. II, University Press, 2013
 5.Burgdorf, W.H.C.; Plewig, G.; Wolff, H.H.; Landthale - Braun-Falco's Dermatology. Springer Verlag 2009

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

...

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Formative assesment. Knowledge assesment. Participation in the 1 TBL session is mandatory. The absenceof the TBL session must be motivated according to the discipline regulation.	TBL	15
- practical activities	Assesment of practical knowledge acquired during the semester- CBL	CBL	15
Final evaluation			
- theoretical final exam	Assesment of knowledge acquired during the semester.	Summativ evaluation. Final verification	60
- practical final exam	Identification of primary skin lesions	Clinical cases	10
Minimal performance standards: - carrying out the anamnesis, the complete clinical examination in dermatology, Formulation of a positive and differential diagnosis in dermatology - establishing treatment principles in dermatological diseases			

11. Must seen clinical situation list

leucoplasia, eritroplasia, squamos cell carcinoma, melanoma

12. Clinical / practical abilities

Identification of primary skin lesions

13. Appointment timetable (for students)

Şef I dr Badea Mihail-Alexandru 30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Prosthodontics (simulation)			
2.2 Course coordinator: Șef I dr János Kinga-Mária			
2.3 Practical activities coordinator(s): Șef I dr János Kinga-Mária			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 30		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 30		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
materials needed - artificial teeth for simulation arches, handpieces (turbines), diamond burs, impression materials

6. Specific competencies acquired

6.1 professional competencies:
The student must achieve how to restore dental lesions by direct and indirect prosthodontic methods in terms of shape, function, and aesthetics in patients of all ages.
Must have the necessary knowledge and experience regarding the design and tooth preparation for different types of single-tooth restorations and elements related to the dental laboratory procedures.
The student must be familiar with the potentials and limitations of the various clinical and technological procedures involved in single-tooth restorations.

6.2 transversal competencies: The student must be competent in ensuring safety at work. Must understand the importance of one's health and its impact on the development of one's profession. They must have the competence to impose on other colleagues the principles of health and safety at work (simulation room, treatment room). They must achieve the scientific aspects of the use of biomaterials, the limits imposed on them, and their effect on the environment in which they are used. Be competent in recognizing one's limitations and recognizing the value of the continuous study, self-improvement, and critical thinking in maintaining a high degree of professional competence.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The discipline focuses on the indications, contraindications, methods, and techniques of the single-tooth restorations.
7.2 Specific objectives: Mastering by the student the methods (direct and indirect) and the techniques of prosthetic preparation of the teeth in the simulator (phantom), for the realization of various types of single-tooth restorations (full veneer crowns, dowel cores)

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	General considerations of tooth preparation (biological, mechanical, profilactical) part I	Oral and multimedia presentation	-	-	2
2	General considerations of tooth preparation (biological, mechanical, profilactical) part II	Oral and multimedia presentation	-	-	2
3	General considerations of tooth preparation (esthetics, ergonomics). Classification of the single-tooth restorations	Oral and multimedia presentation	-	-	2
4	Full veneer crowns. Full metal crown.	TBL	-	-	2
5	Aesthetic full veneer crown. (polymeric crown, Jacket ceramic crown, full ceramic crown)	Oral and multimedia presentation	-	-	2
6	Mixed / partial aesthetic crown. Metal-polymeric crown, metal-ceramic crown.	Oral and multimedia presentation	-	-	2
7	Abutment protection. Provisional restorations.	Oral and multimedia presentation	-	-	2
8	Impression techniques	Oral and multimedia presentation	-	-	2
9	Interocclusal records	Oral and multimedia presentation	-	-	2
10	Try-in of the restorations and shade selection	Oral and multimedia presentation	-	-	2
11	Application and cementation of the single-tooth restorations.	Oral and multimedia presentation	-	-	2
12	Veneers	Oral and multimedia presentation	-	-	2
13	Dowel core	TBL	-	-	2
14	Removal of the single-tooth restorations	Oral and multimedia presentation	-	-	2

Bibliography

I. Compulsory bibliography

1. Rosenstiel, Land, Fujimoto CONTEMPORARY FIXED PROSTHODONTICS 2016
2. Course notes

II. Optional bibliography

1. Schillingbourg HT: Fundamentals of Fixed Prosthodontics 3rd edition, Quintessence Publishing Co. IL, 1997
2. Wiskott A: Fixed Prosthodontics. Principles and Clinics. Quintessence Publishing Co. IL, 2011
3. Pongrácz A: Rögzített fogpótlások, Studium Alapítvány Kiadó, 2009
4. Forna N: Dental Prosthetics, vol.I, pp. 401-805 - Topics included in residency, Encyclopedic Publishing House, 2011

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Technical and labor protection training. Presentation of the ADEC simulation equipment. Interactive theoretical examination of the necessary instruments and phases of tooth preparation for various types of single-tooth restorations.	CBL	-	-	4
2	Interactive theoretical examination of the necessary instruments and phases of tooth preparation for various types of single-tooth restorations.	CBL	-	-	4
3	Interactive theoretical examination of the necessary instruments and phases of tooth preparation for various types of single-tooth restorations.	CBL	-	-	4
4	Interactive theoretical examination of the necessary instruments and phases of tooth preparation for various types of single-tooth restorations.	CBL	-	-	4
5	Knife-edge preparation for cast crown - tooth 4.6	Practical activities: tooth preparation on the simulator	-	-	4
6	Chamfer preparation for cast crown - tooth 1.7	Practical activities: tooth preparation on the simulator	-	-	4
7	Shoulder preparation for Jacket ceramic crown - tooth 1.3	Practical activities: tooth preparation on the simulator	-	-	4
8	Heavy chamfer preparation for full ceramic crown - tooth 1.2	Practical activities: tooth preparation on the simulator	-	-	4
9	Tooth preparation for metal-ceramic crown - tooth 1.5	Practical activities: tooth preparation on the simulator	-	-	4
10	Tooth preparation for veneers - tooth 1.1	Practical activities: tooth preparation on the simulator	-	-	4
11	Tooth preparation for partial crowns / onlays - tooth 4.3	Practical activities: tooth preparation on the simulator	-	-	4
12	Tooth preparation for post and core, dowel core - tooth 4.4, 4.5	Practical activities: tooth preparation on the simulator	-	-	4
13	Clinical training regarding the impression techniques for single crown restorations	Practical activities: impressions on the simulator	-	-	4
14	Recovery practical activities	Practical activities: tooth preparation on the simulator	-	-	4

Bibliography

Bibliography

1. The content of the materials presented at the practical activities and posted on the discipline's website
2. Shillingburg HT et al.: Fundamentals of Fixed Prosthodontics, Quintessence, 1997

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The preparation of teeth for their restoration with crowns is an important activity in dentistry, being common cases of massive coronary destruction among the population, which requires this type of treatment.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of theoretical elements and the specific clinical and technical steps of tooth preparation for different types of single-tooth restorations. Knowing the objectives of the preparation. Knowledge of working instruments. The grade obtained during the TBL sessions.	Single choice questions	15
- practical activities	Knowledge of theoretical elements and the specific clinical and technical steps of tooth preparation for different types of single-tooth restorations. Knowing the objectives of the preparation. Knowledge of working instruments, of the ergonomic working positions. The grade obtained during the CBL sessions.	Appreciation of the work done during the semester by giving a qualification of each preparation performed during the semester, qualification obtained at CBL sessions	15
Final evaluation			
- theoretical final exam	Knowledge of the theoretical elements related to the concept of single-tooth restorations, indications, contraindications, advantages, disadvantages, the clinical and technological particularities of the single-tooth restorations	Multiple choice questions	50
- practical final exam	Knowledge of the specific clinical and technical steps of tooth preparation for different types of single-tooth restorations. Knowing the objectives of the preparation. Knowledge of working instruments, of the ergonomic working positions.	practical verification - tooth preparation for a specific type of single-tooth restoration	20
Minimal performance standards: Minimal performance standards: Assessment during the semester: 1. Practical activities: Fulfillment of the minimum activity scale regarding tooth preparation: evaluation of each preparation, the minimum promotion grade 5.00. Knowledge of the objectives of tooth preparation, acceptable preparation Qualificatives obtained at CBL sessions. The minimum promotion grade is 5.00 (not rounded). 2. Theoretical: Promotion of tests in TBL sessions with a minimum of 5.00 (the average of the grades obtained at the 3 TBL sessions will be achieved) Final evaluation: 1. Practical final exam The minimum promotion mark is 5.00 (not rounded). Students who do not promote the final practical assessment have the right to participate in the theoretical examination. 2. The final theoretical exam Multiple choice questions with (80% from the mandatory bibliography, 20% from the course notes) The minimum promotion mark is 5.00 (not rounded). Non-passing one of the exams (in practice or theoretically) requires you to resume it at the next exam session.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr János Kinga-Mária	marti si joi de la 8-10

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Surgical semiology. General surgery			
2.2 Course coordinator: Șef I dr Roșca Ancuța-Noela			
2.3 Practical activities coordinator(s):			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 0		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
7.2 Specific objectives:

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Appointment timetable (for students)

Şef I dr Roşca Ancuţa-Noela	

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: SL1 - Humanities
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Applied linguistics and communication skills in Romanian language			
2.2 Course coordinator: Lect dr Năznea Adrian			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 12		
- tutorial activities: 0		
- examinations: 0		
- other activities: 0		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
sală dotată cu echipamente multimedia
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
La sfarsitul cursurilor, studentul va putea sa:
-foloseasca functiile specifice limbajului de specialitate (sa adreseze intrebari, formuleze opinii, sfaturi, sa convinga,
sa explice, sa descrie situatii concrete specifice domeniului medicina dentara)
-citeasca fluent si corect si sa inteleaga continutul unor texte de specialitate de dificultate medie/ avansata
-sa inteleaga mesaje receptate pe cale auditiva legate de sfera profesionala
-sa vorbeasca fluent si corect, folosind un vocabular variat si adecvat unor situatii specifice domeniului
-sa scrie corect, conform regulilor gramaticale, folosind un stil si un vocabular adecvat continutului de idei
-sa utilizeze un vocabular variat de termeni din domeniul de specialitate.

6.2 transversal competencies: Studentul va putea să: -utilizeze limba română ca mijloc de comunicare cu alți vorbitori ai aceleiași limbi în situații din domeniul medicinei dentare; - facă prezentări orale; - se documenteze și să structureze informații, să sintetizeze date obținute prin chestionare administrate unui grup țintă pentru pregătirea și elaborarea de lucrări în domeniu, participarea la stagii; - se familiarizeze cu utilizarea unor platforme de comunicare virtuală și munca în grup.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Cunoașterea limbii române la nivel avansat.
7.2 Specific objectives: Dezvoltarea celor patru abilități de bază: citirea, înțelegerea mesajelor receptate pe cale auditivă, comunicarea verbală, comunicarea scrisă precum și familiarizarea cu vocabularul din domeniul de specialitate.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introducere în terminologia medicinei generale 1. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
2	Introducere în terminologia medicinei generale 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
3	Introducere în terminologia medicinei dentare 1. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
4	Introducere în terminologia medicinei dentare 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
5	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice	-	nu este cazul	2

	interviul 1. Comunicare și vocabular	corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea			
6	Profesia de medic dentist. Provocări și oportunități. Scrisoarea de intenție și interviul 2. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2
7	Bolile dinților. Boli parodontale. Comunicare și vocabular	Expunerea, prezentarea multimedia, conversația (descrierea unor imagini, discutarea unor cazuri, compararea unor itemi, brain-storming etc.) rezolvarea de exerciții, rezolvarea unor sarcini în grup, interpretarea de roluri (ex. medic-pacient), rezolvarea unor sarcini pe baza unor mesaje scrise ori receptate pe cale auditivă (cu ajutorul mijloacelor tehnice corespunzătoare), elaborarea unor lucrări scrise, autoevaluarea	-	nu este cazul	2

Bibliography

Butiurcă, Doina, 2009, Fundamentele greco-latine ale terminologiei medicale, Revista Limba Română, Nr. 11-12
Frînculescu, Iulia Cristina, 2009, Limbajul medical românesc în sincronie și diacronie, Revista UNITERM, nr.7/
2009
Melnic V., 2003 , Mijloace de formare a terminologiei clinice medicale in limba romana, Revista Limba română, Nr.
2-3, anul XIII
Rusu, Valeriu, 1983 Mic dicționar medical, vol. I, II, Iași
Ursa A., Marcean, N., 2018, Limba română medicală. Româna pentru obiective specifice, Limes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Corectitudinea structurilor folosite - Complexitatea limbajului - Adecvarea la registru, nivel de formalitate specifice situatiei	Întrebări cu complement multiplu, formare de cuvinte, potrivire de cuvinte, completare de spații	100
- practical final exam	-	-	0

Minimal performance standards:

Să poată interacționa cu pacientul în conducerea interviului medical, să știe să adreseze întrebări referitoare la anamneză, să poată oferi explicații, recomandări simple; să citească și să înțeleagă ideile principale ale unui text sau mesaj audio, să poată răspunde la întrebări pe baza lor fără greșeli mari la nivelul organizării discursului, să cunoască un număr satisfăcător de termeni specifici domeniului.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Lect dr Năznean Adrian	30 de minute după fiecare activitate didactică

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: How to read and publish statistical results in medical research			
2.2 Course coordinator: Conf dr Olah Peter			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 4		
- supplemental documentation at the library, from specialized information portals and in the field: 2		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 2		
- tutorial activities: 1		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 11		
3.9 Total hours: 25		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
• The student will need to demonstrate the ability to organize and graph numerical and non-numerical data in a scientific study or experiment.
• Demonstrating the ability to understand and present the statistical protocol in the Material and Method section of a scientific article
• Demonstrating the ability to present the statistical results in the Results section of a scientific article and to interpret these results in the Discussions, respectively Conclusions sections of the article
6.2 transversal competencies:
• Ability to critically evaluate the presentation of the statistical protocol and of the results in biomedical scientific articles

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

• In the current context of evidence-based medicine, Biostatistics has become one of the essential work tools for the practitioner or researcher in the biomedical field. The volume of specialized literature is constantly growing, and the selection of relevant information in this context is becoming more and more challenging. As such, the main objective of this discipline is to develop students' skills to critically read specialized literature and to eloquently publish the results of their own research, from the point of view of statistical protocols and statistical results.

7.2 Specific objectives:

- Developing students' ability to graphically represent numerical and non-numerical data, as well as to interpret such representations published in specialized literature
- Developing students' ability to present the statistical protocol used in the Material and Method section of a scientific article
- Developing students' ability to present the statistical results obtained in the Results section of a scientific article.
- Developing the students' ability to present the conclusions reached based on the statistical results in a scientific article

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Data types. Data organization. Primary data. Indexed data. Contingency tables.	Oral presentation, Powerpoint presentation, Video materials	-	Biological variability	2
2	Graphic representation of numerical and non-numerical data	Oral presentation, Powerpoint presentation, Video materials	-	-	2
3	Presentation of the statistical protocol in the Material and Method section of a scientific article	Oral presentation, Powerpoint presentation, Video materials	-	-	2
4	Presentation of statistical results in the Results section of a scientific article.	Oral presentation, Powerpoint presentation, Video materials	-	-	2
5	Presentation of conclusions based on statistical results in the card of a scientific article	Oral presentation, Powerpoint presentation, Video materials	-	Clinical trials	2
6	Correlations and regressions. The correlation coefficient. The coefficient of determination. Linear and non-linear regressions. Their importance in the biomedical field.	Oral presentation, Powerpoint presentation, Video materials	-	Clinical trials	2
7	VERIFICATION of accumulated theoretical knowledge	Grid test with Multiple Choice Questions	-	-	2

Bibliography

1. Bacărea Vladimir, Ghiga Dana, Mărușteri Marius, Oláh Péter, Petrișor Marius - A Primer in Research Methodology and Biostatistics, University Press Targu Mures, 2014
2. Motulsky Harvey, Intuitive Biostatistics: A Nonmathematical Guide to Statistical Thinking, Oxford University Press, 2013

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Adequate acquisition of the mentioned curricular content provides the student with the theoretical and practical framework for the critical reading of scientific articles in the biomedical field, as well as basic skills to correctly and

eloquently present the protocols and results obtained in their own studies and research.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Understanding and integration of all theoretical concepts Knowledge of bibliographical references	Multiple choice test	100
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	-	-	0
- practical final exam	-	-	0
Minimal performance standards:			
• The ability to organize and represent relevant data according to the needs of a scientific study or experiment • The ability to correctly present the statistical protocol and its results in a scientific article • The ability to formulate correct and pertinent conclusions based on statistical results			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Olah Peter	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Historical impact of drug discoveries			
2.2 Course coordinator: Şef I dr Bán Érika-Gyöngyi			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 0		
- supplemental documentation at the library, from specialized information portals and in the field: 11		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 0		
- tutorial activities: 0		
- examinations: 0		
- other activities: 25		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
According to the Internal rules and Regulations of the D.of Pharmacology and Clinical Pharmacology
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
The interesting historical influences caused by certain drug discoveries
6.2 transversal competencies:
Correlation between the medical use of medications and the effects behind
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Understanding the impact of pharmacological drug discoveries on the world's history
7.2 Specific objectives: Correlation between the use of a medicine and the effects observed in the population

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The history of medicine shaped by drugs. Strong active substances in plants – common and famous poisonings.	MS Power Point, Case based interactive discussions	-	Drug reactions	2
2	. The art of discovery in medicine – penicillin and five more	MS Power Point, Case based interactive discussions	-	Drug reactions	2
3	The modern drug discovery cycle. Drug discovery in America: story of curare and others	MS Power Point, Case based interactive discussions	-	Drug reactions	2
4	The use of placebo in medicine. . James Lind and the citrus fruits in scurvy therapy	MS Power Point, Case based interactive discussions	-	Drug reactions	2
5	The opium war. Drug discovery in ancient Asia: India and Tibet	MS Power Point, Case based interactive discussions	-	Drug reactions	2
6	The “PILL”. Drug discovery in Europe: German and Greek traditional medicine	MS Power Point, Case based interactive discussions	-	Drug reactions	2
7	Clinical trials – then and now Regulatory affairs of drug discovery: US and Canada, UK, EU and Japan	MS Power Point, Case based interactive discussions	-	Drug reactions	2

Bibliography

Bibliografie: 1. Thomas Hager - Ten Drugs; Abrams Press; 2019

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Project presentation	Oral presentation	50
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Knowledge regarding the overview of pharmacological implications of drug discovery	Written assignment/Oral exam	50
- practical final exam	-	-	0
Minimal performance standards: Passing grade: 5.00			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Bán Érika-Gyöngyi	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M4
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Tobaccology			
2.2 Course coordinator: Șef I dr Germán-Salló Márta			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
mod de organizare frontal sau în condiții epidemiologice nefavorabile online
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Awareness of the fact that smoking is a chronic disease for which there are effective methods of treatment.
Assessment/diagnosis of tobacco consumption and tobacco dependence
Organizing the documentation of the smoking status in the medical records
Delivering the minimal intervention counseling of persons assisted smoker
Proper use of the available resources in anti-smoking counseling (specialized anti-smoking centers, quitline)
6.2 transversal competencies:
Awareness of the role of the physician in smoking prevention and in the prevention for smoking related diseases
Organizing a smoking prevention programs
Acquiring knowledge about the psychology of lifestyle change
Awareness of bio-psycho-social consequences of a widespread disease

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Correct diagnosis and treatment of the tobacco dependence disease
7.2 Specific objectives: Recognition and measurement of nicotine dependence Motivation for smoking cessation Delivering the brief anti smoking advice Knowledge of non-pharmacological and pharmacological methods for the treatment of nicotine dependence Realizing the role of the physician in anti-smoking efforts

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	History of tobacco use. Information on smoking prevalence and trends of consumption indicators worldwide, at European and national levels. Psychosocial causes of smoking. The economical aspects of smoking.	prezentare multimedia	-	-	2
2	Informations on the health consequences of tobacco smoking. Chemical composition of tobacco smoke. Causal role of smoking in respiratory diseases, cardiovascular diseases, tumors, hematological, gynecological diseases. Effects of smoking in pregnancy. Environmental effects of smoking . Social and economic impact of smoking	prezentare multimedia	-	durere în piept, dispnee, patologii cardiace ischemice	2
3	Recognition of tobacco use and dependence in general practice. Tobacco addiction industrial spread disease. The mechanism of tobacco dependence. The natural history of tobacco dependence Fagerstrom Test for the evaluation of dependence level. Clinical diagnosis of tobacco dependence (carbon monoxide, cotinine, using biomarkers)	prezentare multimedia	-	-	2
4	Smoking cessation. Therapeutic education. Behavioural support. Smoking cessation motivation. Brief advice on stopping tobacco use. Prevention of relapse.	prezentare multimedia	-	-	2
5	The role of the physician in tobacco control Cognitive - behavioral treatment of tobacco dependence. Nicotine replacement therapy (mechanism of action, clinical evidence of efficacy, indications, prescribing instructions, contraindications, adverse effects) treatment with bupropion, varenicline, Nonpharmacological interventions for smoking cessation	prezentare multimedia	-	-	2
6	Treatments recommended in special circumstances. Treatments recommended for pregnant women, under 18 years, Recommendations for smokers with respiratory and cardiovascular diseases, cancer or other comorbidities Recommendations for the prevention and management of weight gain following smoking cessation. Recommendations for preventing relapse. Group counseling for quitting smoking	prezentare multimedia	-	-	2
7	Smoking prevention at the population level. National tobacco control legislation. MPOWER strategy for global tobacco control. Governmental and non governmental institutions specialized in tobacco control	prezentare multimedia	-	-	2

Bibliography
 2018 European Network for Smoking and Tobacco Prevention (ENSP) European Smoking cessation guidelines 2016
<http://elearning-ensp.eu/assets/English%20version.pdf> ENSP
 Allen Carr's Easy Way To Stop Smoking

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Curricula disciplinei este alcătuită conform Standardelor europene de acreditare a serviciilor și programelor de formare profesională publicate în Ghidul European pentru renunțare la fumat redactat de ENSP European Network for Smoking and Tobacco Prevention
Course curriculum is designed according to the recommendations drafted in the European Standards for accreditation of training programs and services published European Guidelines for smoking cessation
ENSP(European Network for Smoking and Tobacco Prevention)

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Însușirea cunoștințelor de bază și capacitatea de a corela conceptele teoretice însușite	test grilă, multiple choice	100
- practical final exam	-	-	0
Minimal performance standards: Nota minimă de trecere 5 minima grade Tobacco epidemic in Europe and the world; Factors that lead to tobacco use; Pharmacological basis of tobacco dependence; Health dangers of tobacco; Other consequences(economic, environmental ..)of tobacco smoking; Approaches to tobacco control; The role of the physician in tobacco control; Delivering the brief anti smoking intervention Assessment of smoking status Analysis of previous attempts a patient smoking cessation Motivating smoking cessation in a clinical context Knowledge of support services for smokers functional in Romania Knowledge of the indications and contraindications for the treatment of smoking addiction medications Knowledge of global strategies to control smoking Tobacco control legislation			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Germán-Salló Márta

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: -
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Advanced digital skills			
2.2 Course coordinator: Prof dr Enăchescu Călin			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: -
4.2 competency: knowledge of PC use, knowledge of Internet use

5. Conditions

5.1 for lectures: classroom with video projector and Internet
5.2 for practical activities: classroom with video projector and Internet

6. Specific competencies acquired

6.1 professional competencies: Elaboration and communication of plans and projects in the field of ensuring cyber security. Identifying cyber security dimensions. The use of cyber security techniques, mechanisms and procedures for the protection of personal and organizational data.
6.2 transversal competencies: Optimum management of professional tasks and learning to execute them on time, rigorously, efficiently and responsibly; Compliance with ethical rules specific to the field (eg: confidentiality) Application of team communication techniques; the development of empathic interpersonal communication skills and the assumption of specific roles in teamwork with the aim of making the group's activity more efficient and saving resources, including human resources

Identifying and using effective learning methods and techniques; awareness of the extrinsic and intrinsic motivations of continuous learning.

6.3 related to the study program:

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The discipline underpins the field of cyber security – terminology, threats, vulnerabilities, risks, cyber attacks, protection and response measures to IT security incidents, disaster recovery measures.

Through the topics covered, the course raises the degree of preparation and awareness of students in the field of the urgent need to protect data, services and systems in the context of the Security by Design paradigm.

7.2 Specific objectives:

After completing the assignments, students will be able to understand the fundamental concepts of cyber security in the context of an increasingly digitized society.

The content is focused on the concrete presentation of the main topics in the field of cyber security adapted to the requirements necessary to protect data, IT systems and services, and the appropriate tools for developing cyber resilience capacities and increasing the level of culture in the field of cyber security.

Students will understand the risks related to the processing and storage of data in a virtual environment, the risks of using the Internet and interconnected computing systems, and will be able to identify and choose methods and mechanisms that provide an adequate degree of protection of personal IT data, systems and services and organizational.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to Cyber Security. The need for cyber security. Domains of cyber security.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
2	Protection of data and personal privacy. Organizational protection. Behavioral approach to cyber security. Programmatic approach to cyber security.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
3	Dimensions of cyber security. The CIA Triad (Confidentiality, Integrity, Availability). Cyber security guarantees.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
4	Cyber Threats, Vulnerabilities and Attacks – Concepts, Mechanisms and Techniques. Countermeasures against cyber threats. Understanding reactive, proactive and operational security.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
5	Data encryption as a mechanism to provide data privacy. Access control. Data masking as a data security and protection mechanism.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
6	Data integrity. Types of data integrity checks.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation / conversation, case studies, dissemination of results)	-	-	2
7	Availability of IT systems and services (The Five Nines concept). Responding to IT security incidents. Disaster recovery.	Problem-based learning (lecture / description of the problem, problematization / parameterization, identification of solutions, explanation /	-	-	2

	conversation, case studies, dissemination of results)			
Bibliography 1. Augenbaum S., The Secret to Cybersecurity: A Simple Plan to Protect Your Family and Business from Cybercrime, Forefront Books, 2019. 2. Cisco Networking Academy, Cybersecurity Essentials, v1.1, https://www.netacad.com . 3. Evans L., Cybersecurity: What You Need to Know About Computer and Cyber Security, Social Engineering, The Internet of Things + An Essential Guide to Ethical Hacking for Beginners, Independently published, 2019. 4. Evans L., Cybersecurity: An Essential Guide to Computer and Cyber Security for Beginners, Including Ethical Hacking, Risk Assessment, Social Engineering, Attack and Defense Strategies, and Cyberwarfare, Independently published, 2018. 5. Kennedy G., Data Privacy Law: A Practical Guide to the GDPR, Bowker, 2019. 6. Stallings W., Cryptography and Network Security: Principles and Practice, 8th Edition, Pearson, 2020.				

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Corroboration of the contents of the discipline with the expectations of community representatives, professional associations and representative employers in the field related to the program:

Today's society has become totally dependent on technology, and especially on managing data in digital format. The role of cyber security, both for individuals and organizations, regardless of their business, is vital for data protection and for guaranteeing the functioning of IT services, systems and infrastructures. The inclusion of security procedures and policies within professional activities is no longer an end in itself, but an objective necessity. For this reason, the discipline is structured in a practical and pragmatic way to respond to these realities. Moreover, the entry into force of the GDPR legislation imposes strict measures regarding the protection of personal data in the European Union space, which determines the obligation of digital culturalization in the field of cyber security of every employee in every organization / company. In this context, the topics studied provide the set of information necessary for the understanding and application of the protection mechanisms of digital data and IT infrastructures.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Formative assessment to verify preparation throughout the semester. The ability to analyze and synthesize	TBL testing	30
- practical activities	Acquiring and understanding the treated issue	written test	50
Final evaluation			
- theoretical final exam	Summative evaluation to verify the preparation and understanding of the course topic. Knowledge of fundamental notions and concepts.	written test	20
- practical final exam	-	-	0
Minimal performance standards: - Knowledge of the concepts, mechanisms and techniques that underpin the field of cyber security. - Identifying the dimensions of cyber security. - Designing basic sets of security procedures and policies at personal and organizational level. - A minimum grade of 5 must be obtained for each evaluation and each exam.			

11. Appointment timetable (for students)

Prof dr Enăchescu Călin	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Genetic hereditary factors in determining the scope of orofacial disorders			
2.2 Course coordinator: Prof dr Bănescu Claudia-Violeta			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
minim 10 persoane
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Formularea de ipoteze si interpretarea corectă a semnelor, simptomelor clinice, a modificărilor paraclinice. Acordarea sfatului genetic, calcularea riscului de recurenta a bolilor genetice. Evaluarea corectă a riscului de îmbolnăvire, respectiv alegerea si aplicarea măsurilor adecvate de profilaxie în familie si în populatie în caz de boală genetică. Implementarea unor abordări noi privind procesul de stabilire a diagnosticului si managementului bolilor genetice în relatie cu progresul cunoasterii si cel tehnic din domeniul biologiei moleculare Initierea si derularea unei activități de cercetare stiintifică în domeniul geneticii

6.2 transversal competencies:

Constientizarea nevoii de formare continuă în domeniul geneticii și biologiei moleculare în era de genetizare a medicinei: utilizarea eficientă a resurselor și tehnicilor de învățare pentru dezvoltarea personală și profesională, a surselor informaționale și a resurselor de comunicare, a literaturii de specialitate la zi, a bazelor de date genetice și softuri de asistare a stabilirii diagnosticului în bolile genetice cu implicare în sfera oro-maxilo-facială.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Înșușirea noțiunilor de genetică medicală cu aplicații în medicina dentară.

7.2 Specific objectives:

Cunoașterea rolului factorilor genetici în realizarea trăsăturilor fiziologice și a bolilor genetice cu implicare în sfera oro-maxilofacială.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Approaching of the patient with congenital malformations. Syndromes associated with filtrum abnormalities	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
2	Syndromes associated with lip abnormalities (full lips). Syndromes associated with lip abnormalities (cleft lip)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
3	Syndromes associated with tongue abnormalities (macroglossia, microglossia). Syndromes associated with tongue abnormalities (multiple frenulum, bifid tongue)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
4	Syndromes associated with teeth abnormalities (anodontia, hypodontia). Syndromes associated with teeth abnormalities (abnormalities of eruption, neonatal teeth)	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases	2
5	Syndromes associated with abnormality of the maxilla	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
6	Chromosomal abnormalities associated with oro-facial syndromes	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases. Malformations of lip/palate,	2
7	Congenital anomalies induced by teratogens. Genetic counseling in syndromes affecting Craniofacial and Dental Structures	Oral+multimedia presentation	-	Chromosomal disorders, Monogenic diseases.	2

Bibliography

Bibliografie obligatorie:

1. Lyons Jones K., Crandall Jones M., Del Campo M. Smith's recognizable patterns of human malformation, 7th edition, Ed. Elsevier, 2013

Bibliografie suport:

2. Agnes Bloch-Zupan, Heddie Sedano, Crispian Scully. Dento/Oro/Craniofacial Anomalies and Genetics. Ed Elsevier, 2012.

3. Raoul Hennekam, Judith Allanson, and Ian Krantz. Gorlin's Syndromes of the Head and Neck, Editura: Oxford University Press. 2010

9. Correlations between the contents of the discipline and the expectations of the community

representatives, professional associations and representative employers in the domain

Recunoașterea și abordarea factorului genetic în determinarea tulburărilor din sfera oro-maxilofacială

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	According to the specifics of the domain	test, proiecte in echipa- discutii.	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	According to the specifics of the domain	written exam	70
- practical final exam	-	-	0
Minimal performance standards: Basic knowledge of medical genetics, The minimum grade to pass the exam is 5 (this will result from the grades received for activities during the semester and at the final exam). The theoretical exam consists of a test with simple and multiple choices, according to the regulation.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Bănescu Claudia-Violeta	30 min dupa curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Occupational diseases and work-related diseases in dentistry			
2.2 Course coordinator: Conf dr Moldovan Horațiu-Remus			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Cunoștințe generale de anatomie, fiziologie și fiziopatologie
4.2 competency: nu este cazul

5. Conditions

5.1 for lectures: Sala de curs, suport IT, platformă digitală pentru predare on/line, în funcție de evoluția epidemiologică
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Cunoașterea noxelor profesionale fizice, chimice și biologice, precum și a suprasolicitațiilor anumitor organe și/sau sisteme ale organismului în procesele de muncă în domeniul stomatologiei. Cunoașterea unor efecte ale acestor noxe asupra organismului.
6.2 transversal competencies: Aplicare de măsuri de prevenție eficiente pentru prevenirea îmbolnăvirilor profesionale sau a îmbolnăvirilor cu factori profesionali contributory în domeniul stomatologiei.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Constientizarea, recunoasterea factorilor de risc profesionali la personalul din domeniul stomatologiei si a tehnicilor dentare. Elaborarea unor planuri de preventie.

7.2 Specific objectives:

Recunoasterea semnelor, simptomelor unei eventuale imbolnaviri profesionale.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Occupational risks and risks related to occupation in dentists, classification. Physical injury factors in dentistry: basic ergonomics concepts; occupational injuries caused by vibration and noise.	Oral/ multimedia	-	osteomuscular pain, dizziness, hearing loss, pain	2
2	Occupational physical risks in dentistry: different types of electromagnetic radiation (laser, UV, visible light) -, ionizing radiation (Rx) -, occupational injuries caused by electricity, accidents.	Oral/ multimedia	-	asthma, dyspnea, burns, cardiorespiratory arrest, pruritus	2
3	Occupational physical hazards: microclimate and occupational diseases caused by various dust. Classification of elementary dust particles: metals, other types of dust (organic substances, inorganic substances, composites). Lung self-cleaning process, prevention techniques.	Oral/ multimedia	-	asthma, acne, carcinoma, gastric ulcer, intoxication	2
4	Occupational diseases caused by inorganic particles in dentistry: pneumoconiosis, interstitial pneumonia. Harmful chemical factors in dentistry: diseases caused by irritating gases, vapors, organic solvents.	Oral/ multimedia	-	immunodeficiency, candidosis, osteomyelitis, otitis media, tuberculosis, endocarditis, sepsis, skin infections, respiratory infections	2
5	Latex allergy. Contact dermatitis caused by acrylates and metals. Occupational asthma: epidemiology, diagnosis, evolution.	Oral/ multimedia	-	dermatitis, intoxication	2
6	Occupational diseases caused by metal oxides (Ni, Cr, Co, Hg) in dentistry. Diseases caused by biological factors in dentistry (epidemiology, prevention procedures - vaccination programs recommended by the WHO): HIV, hepatitis B, C, TB, other common bacterial, fungal and viral infectious diseases.	Oral/ multimedia	-	intoxications, chronic liver disease, vision loss, anxiety, neurological diseases	2
7	TBL	Oral/ multimedia	-	intoxications, chronic liver disease, vision loss, anxiety, sleep disorders, immunodeficiency, candidiasis, osteomyelitis, otitis media, tuberculosis, endocarditis, sepsis, skin infections, respiratory infections	2

Bibliography

1. Encyclopaedia of Occupational Health and Safety, 2012, online <http://www.iloencyclopaedia.org>
2. H.G. 355/2007
3. H.G. 1169/201
4. A. Cocarla, Medicina ocupationala, vol I, II, 2009 Editura Medicala Universitara Iuliu-Hatieganu, Cluj Napoca
5. L. Szasz, Vandemecum de medicina muncii, Editura Universitas, Targu Mures, 2008

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	during the lectures	participation in debates during classes	10
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	-final exam	-verification	90
- practical final exam	-	-	0
Minimal performance standards:			
- minimum presence for internship - 75%			
- patient examination and anamnesis - 25%			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Moldovan Horațiu-Remus

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Adhesive modern techniques in dentistry			
2.2 Course coordinator: Șef I dr Borș Andrea-Izabella			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students).
Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Acquiring theoretical knowledge on contemporary dental adhesive techniques covering various ramifications of adhesion and adhesives in the broad domain of dentistry, providing an important evidence base. A solid grasp of the principles, mechanics and techniques of bonding and modern adhesive systems is essential in dentistry. The course includes theoretical aspects of the concept of „adhesive dentistry” as it is apparent that adhesion and adhesives play important roles in modern clinical dentistry. Students will develop skills and confidence through the design and execution of minimally invasive indirect and direct adhesive techniques in order to achieve the best functional and aesthetic results, in point of view of achieving an appropriate treatment plan.

6.2 transversal competencies: The course will be delivered as a series of interactive meetings. For students to achieve a comprehensive, well-rounded education, integrated teamwork on several fronts is vital. Teamwork is necessary between students and between students and teachers. The more teamwork fundamentals exhibited, the more opportunity exists for students to learn the vital skills of compromise and collaboration in modern adhesive dentistry.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: -The student has to understand the basic concepts on the techniques used in adhesive dentistry. -The student will learn to develop skills to apply the gained knowledge with an appropriate correlation in various clinical situations in which it is possible to use these methods.
7.2 Specific objectives: -The student will be able to describe the concepts and methods used in modern adhesive techniques. -The student will acquire the ability to understand different aspects of composition and properties of various adhesive systems which have implications for major applications in dentistry. -Applications of theoretical knowledge on various adhesive systems to their use in dental practice.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Adhesive techniques: from classic to modern. Explanation of the terms used, exemplifying.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Fundamental concepts of enamel and dentin adhesion.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Chemical and histological characters of enamel; adhesion to enamel. Chemical and histological characters of dentine; adhesion to dentin.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Materials, methods and technique options for adhesive fixing.	Test	Two hours every week in english.	-	2
5	Adhesive bridges.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Adhesive techniques used in pedodontics.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Successful treatment plans in adhesive dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2

Bibliography

1. Bors A, Szekely M, Molnar-Varlam C. Tehnici adezive moderne in medicina dentara. Editura: University Press 2015.
2. Jorge Perdigao: Current perspectives on dental adhesion: (1) Dentin adhesion – not there yet, Japanese Dental Science Review, 2020.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-Course content is in accordance with the courses on the same topic listed in other universities with important achievements in theoretical and empirical evidence techniques in adhesive dentistry. -Acquiring these modern restorative methods will be extremely useful for future dentists, adhesive techniques representing the greatest progress that restorative dentistry registers itself.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent

			of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic.	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of modern adhesive techniques used in dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Borş Andrea-Izabella	30 min după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Diet principles in oral pathology			
2.2 Course coordinator: Prof dr Tarcea Monica			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: - nu e cazul
4.2 competency: - nu e cazul

5. Conditions

5.1 for lectures: minim 15 cursanti
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Descrierea noțiunilor de bază ale funcționării organismului uman și a mecanismelor generale de producere a bolilor. - Integrarea noțiunilor de bază în concepte/ situații care se aplică organismului uman cu scopul de a explica semne și simptome. - Descrierea conceptelor, teoriilor și noțiunilor fundamentale de fiziopatologie, pe sisteme și mecanisme de acțiune. - Stabilirea tehnicilor de îngrijire impuse de existența unor semne și simptome de boală. - Stabilirea principiilor terapeutice care modifică mecanismele fiziopatologice în vederea ameliorării simptomelor bolii. - Utilizarea noțiunilor dobândite în cadrul disciplinei pentru cercetarea științifică ulterioară

6.2 transversal competencies: Realizarea unei lucrări/referat/ caz clinic cu identificarea obiectivelor de realizat, a resurselor disponibile, condițiilor de finalizare a acestora, etapelor de lucru, timpilor de lucru, termenelor de realizare aferente și riscurilor aferente diverselor mecanisme fiziopatologice. - Identificarea rolurilor și responsabilităților într-o echipa pluridisciplinară și aplicarea de tehnici de relaționare și muncă eficientă în cadrul echipei și în relație cupacientul. - Utilizarea eficientă a surselor informaționale și a resurselor de comunicare și formare profesională asistată (portaluri Internet, aplicații software de specialitate, baze de date de tip PUBMED, cursuri on-line etc.) atât în limba română, cât și într-o limbă de circulație internațională. - Dezvoltarea gândirii medicale și folosirea informațiilor științifice în contextul interdisciplinarității
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Learning of basic diet principles and how to elaborate on specific diets recommended in various oral and dental illnesses. - To monitor and evaluate the hazards related to nutrition, their effects on teeth and oral mucosa, and proper intervention to reduce and prevent the illnesses related to it and to promote the dental health status of the population.
7.2 Specific objectives: - Analysis of main components of a healthy diet with a good impact on teeth - Identification of general functions and major food sources for each nutrient necessary for dental and oral system - To know the methodology of evaluation of food quality and food safety.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Definition and importance of nutrition in for a healthy dental status and prevention of chronic diseases. Healthy diet principles for mouth and teeth.	Oral presentation and multimedia	-	disorders of calcium and vitamin D metab	2
2	Dietary assessment. Digestion, absorbtion and metabolism of food and nutrients and dental impact.	Oral presentation and multimedia	-	eating disorders	2
3	Dietary reference and nutrients and caloric intakes for the body. Major food sources recommended in oral pathology and cooking technics	Oral presentation and multimedia	-	eating disorders	2
4	Diet recommendations during life cycle for healthy teeth: children, teenagers, adults, senior, athletes and pregnant women.	Oral presentation and multimedia	TBL	malabsorbtion	2
5	Diets and menus recommended in various oral and dental illnesses like: caries, edentations, trush, granulomatosis, dermatosis, candidiasis or viral infections.	Oral presentation and multimedia	-	candidiosis	2
6	Diets and menus recommended in cancer	Oral presentation and multimedia	-	malnutrition	2
7	Diets and lifestyle practices recommended in diabetes, heavy metals poisoning, fluorosis or xerostomia	Oral presentation and multimedia	Final evaluation by Essay	xerostomiosis	2

Bibliography

1. Mahan LK, Escott-Stump S. - Krause's Food, Nutrition, and Diet Therapy. 14th ed. W.B. Saunders Co, Philadelphia, 2014.

Bibliografie suport:

2. Nnakwe NE. – Community Nutrition, Planning Health promotion and Disease Prevention, 3rd edition, Edit. Jones & Bartlett Learning, 2017

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Evaluation and analysis of food nutritional risk factors and proper implementation of dental health programs, preventive measures, and education training for the population.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	test grila	10
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Verificare	Referat	60
- practical final exam	Studii de caz	Discutii, dezbateri	30
Minimal performance standards:			
- admitere la examenul practic doar daca nu depaseste 50% din absente nerecuperate			
- nota minima 5 la practic si teoretic			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Tarcea Monica	30 minute dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental materials in paediatric dentistry			
2.2 Course coordinator: Conf dr Kerekes-Máthé Bernadette-Evelyn			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: III	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Signing in a minimum number of students (a group of 15-17 students).
Lecture hall equipped with laptop and video projector, multimedia equipment.
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
-In addition to acquiring material handling modern techniques of dental materials used in restorative pediatric dentistry, the student will know the composition, the physical, mechanical and chemical properties of the dental materials in order to understand the impact of dental materials that come in contact with oral tissues and will have the necessary knowledge for a proper and effective use of these materials in practice. There is a specific use of the dental materials in pediatric dentistry, new restorative and therapeutic materials have been developed, and there are specific pedodontic materials that the student will endorse.
-Future dentist should know that there are many variants of restoring coronary lesions in temporary and young permanent teeth and he or she should be able to choose a material from the variety of options on the market. They must know which material is better, more efficient and especially which matches the requirements and

demands of the small patients, ensuring the optimum conditions to comply with the international norms. In addition, the student will understand the orthodontic biomechanical ways and the materials from which are manufactured the orthodontic brackets and devices for functional rehabilitation used in orthodontics.
6.2 transversal competencies: -Collaboration and teamwork is today a complex, requiring permanent university training. The student realizes that the work they perform it is a teamwork and the human factor is: the dentist, the dental assistant and the dental technician who must ensure the health and safety at work and the use of modern technologies in pediatric and orthodontic practice. -Teamwork, passion for performance and commitment to helping patients equally bounds students to become increasingly efficient dental professionals in dental practice. -Marketing and dental practice management performance through knowledge of dental materials. -Didactic activity in practical instruction or administration in the field of dental materials used in pedodontics and orthodontics.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: -To acquire the necessary knowledge for the proper and efficient use of materials in pediatric dentistry and orthodontics.
7.2 Specific objectives: -To acquire the ability to understand different aspects about the composition and properties of dental materials which have major implications in practice in pediatric dentistry and orthodontics. -Understanding theoretical aspects on dental materials to be able to use in pediatric dentistry.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Generalities, conditions of materials used in pediatric dentistry. Profilactic materials: fluoride containing products.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
2	Pit and fissure sealants.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
3	Materials for pulpo-dentinal protection, cavity base materials for pediatric dentistry use.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
4	Restorative materials. Materials used for endodontic treatments in pediatric dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
5	Materials used for cementation of orthodontic appliances. Materials used for prosthodontic treatment in pediatric dentistry (crowns for children).	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
6	Materials used for different orthodontic appliances.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2
7	Materials for mouthguards used in sport activities. Impression materials in pediatric dentistry. Generalities about reparation and reconditioning of appliances used in pediatric dentistry.	Oral presentation, multimedia, participative discourse, argumentation.	Two hours every week in english.	-	2

Bibliography

1. SC Leal, EM Takeshita: Pediatric Restorative Dentistry. Springer International Publishing, 2019.
2. Van Noort R: Introduction to Dental Materials. 4th ed. Mosby Elsevier Publishing, Edinburgh, 2016.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topics.	Test	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Theoretical knowledge within the course topic	Colloquium written evaluation or project presentation.	70
- practical final exam	-	-	0
Minimal performance standards: Getting minimum mark of 5 (five) for each component of evaluation: to know the basics of dental materials used in paediatric dentistry, to have no more than 20% unjustified or unrecovered absences.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Kerekes-Máthé Bernadette-Evelyn	30 de minute dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Odontotherapy			
2.2 Course coordinator: Șef I dr Hănțoiu Tudor-Alexandru			
2.3 Practical activities coordinator(s):			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 30		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 30		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Videoprojector, laptop
5.2 for practical activities:
Dental Units, High/Low speed dental pieces, different types of dental burs

6. Specific competencies acquired

6.1 professional competencies:
The student must learn the examination and diagnostic methods used for dental caries; thorough knowledge regarding the conservative treatment of dental caries and best treatment options for deep cavities, in order to preserve the vitality of dental pulp. They have to acquire theoretical and technical skills in order to use composite resins for coronal restorations. Development of complex treatment plans.
6.2 transversal competencies:
Development of interdisciplinary collaboration, especially with Prosthetics and Orthodontics, in order to solve difficult cases.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Acquire of theoretical and practical knowledge regarding the etiology and treatment methods used in dental caries. The correct use of composite resins.
7.2 Specific objectives: Extensive knowledge and practical skills required for the treatment of dental caries.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	General information regarding esthetic restorations	Multimedia and oral presentation	-	-	2
2	Clinical aspects important in esthetic restoration	Multimedia and oral presentation	-	-	2
3	Frequent clinical problems during esthetic restorations	Multimedia and oral presentation	-	-	2
4	Use of composite resins for class III, IV and V cavities restoration	Multimedia and oral presentation	-	-	2
5	Clinical steps in direct composite restorations for class III cavities	Multimedia and oral presentation	-	-	2
6	Clinical steps in direct composite restorations for class IV cavities	Multimedia and oral presentation	-	-	2
7	Clinical steps in direct composite restorations for class V cavities	Multimedia and oral presentation	-	-	2
8	Use of composite resins for class I, II and VI cavities restoration	Multimedia and oral presentation	-	-	2
9	Clinical steps in direct composite restorations of class I and VI micro cavities	Multimedia and oral presentation	-	-	2
10	Clinical steps in direct composite restorations of class I cavities.	Multimedia and oral presentation	-	-	2
11	Clinical steps in direct composite restorations of class II cavities	Multimedia and oral presentation	-	-	2
12	Clinical steps in direct composite restorations of large class II cavities.	Multimedia and oral presentation	-	-	2
13	Clinical evaluation of direct composite restorations	Multimedia and oral presentation	-	-	2
14	Laser in odontal treatment	Multimedia and oral presentation	-	-	2

Bibliography

1. Tudor Hânțoiu, Monica Monea. Odontotherapy, Lecture notes, UMFST, 2020.
2. Sturdevant's Art and Science of Operative Dentistry, 6th edition, Heymann HO, Swift EJ, Ritter AV, Elsevier, 2013.

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Identifying carious lesions, Filling in the clinical Chart	Multimedia presentation, clinical cases, practical demonstrations	-	-	4
2	Diagnostic methods used in dental caries	Multimedia presentation, clinical cases, practical demonstrations	-	-	4
3	Vitality testing	Clinical training	-	-	4
4	Radiographic evaluation in dental caries	Clinical training	-	-	4
5	Indirect pulp capping	CBL. Clinical training	-	-	4

6	Direct pulp capping	Clinical training	-	-	4
7	Class III and IV dental cavities treatment with composite resins	Clinical training	-	-	4
8	Class V and VI dental cavities treatment with composite resins	Clinical training	-	-	4
9	Class I and II dental cavities treatment with composite resins	Clinical training	-	-	4
10	Noncarious lesions treatment	CBL. Clinical training	-	-	4
11	Treatment of dental hypersensitivity	Clinical training	-	-	4
12	Use of magnification in odontotherapy	Clinical training	-	-	4
13	Minimal invasive treatment of early carious lesions	Clinical training	-	-	4
14	Composite resins restorations - quality evaluation	Multimedia presentation, clinical cases, practical demonstrations	-	-	4

Bibliography

Tudor Hânțoiu, Monica Monea. Odontotherapy, Lecture notes. UMFST, 2020.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	According to specific aspects of the subject	CBL	30
Final evaluation			
- theoretical final exam	According to specific aspects of the subject	Multiple choice questions/ written exam	50
- practical final exam	According to specific aspects of the subject	Case presentation/ written exam	20

Minimal performance standards:

Minimal performance standards:

Minimal grade for multiple choice test and for practical exam needs to be 5.00. The final average must be at least 4.50.

The ability to identify simple carious lesions, to reach the correct diagnosis and to apply the necessary therapeutic measures.

Minimal requirements:

- Coronal restorations of class I and II cavities (2)

- Coronal restorations of class III-V cavities (2)

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Hânțoiu Tudor-Alexandru

Head of department

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Endodontics (1)			
2.2 Course coordinator: Șef I dr Kovács-Ivacson Andrea-Csinszka			
2.3 Practical activities coordinator(s): vacant			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 30		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 30		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 91		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
videoprojector, laptop
5.2 for practical activities:
dental units, handpieces, consultation kit, hand instruments, dental materials

6. Specific competencies acquired

6.1 professional competencies:
Acquiring knowledge related to the etiology, diagnosis and treatment of acute and chronic pulp inflammations. Knowledge of examination methods and therapeutic possibilities applicable in the case of inflammation of the dental pulp, with the objective of keeping the tooth on the arch. Familiarizing the student with different methods and materials of root obturation used in endodontic therapy, acquiring the necessary knowledge to establish the correct diagnosis and treatment plan. A special emphasis will be placed on the knowledge of iatrogenic factors and their elimination from the practical activity.
6.2 transversal competencies:
Developing collaboration with other specialties within dental medicine, especially Prosthetics and Orthodontics, to solve complex cases. Knowing the implications that endodontic treatment has on the body as a whole and learning how to work in a team with specialist doctors from other medical fields. The formation of complex teams

of specialists, which must also include the family doctor, in order to determine the appropriateness of endodontic treatment in sick patients.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Acquisition of theoretical and practical notions related to the etiology and treatment of inflammatory complications of carious lesions.

7.2 Specific objectives:

Acquiring practical treatment skills in acute and chronic pulpitis. Different treatment techniques (manual and rotary) and root filling.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Notions of dental pulp morphophysiology	Oral presentation	-	-	2
2	Histopathological characteristics of the dental pulp	Oral presentation	-	-	2
3	Functions of the dental pulp	Oral presentation	-	-	2
4	Etiopathology of pulpal inflammation	Oral presentation	-	-	2
5	Anatomo-clinical forms of acute pulpal inflammations	Oral presentation	-	-	2
6	Anatomo-clinical forms of chronic pulpal inflammations	Oral presentation	-	-	2
7	Dentinal hypersensitivity and hyperesthesia	Oral presentation	-	-	2
8	Participation of immune mechanisms in pulpo-periapical pathology	Oral presentation	-	-	2
9	Treatment of acute pulpal inflammations	Oral presentation	-	-	2
10	Treatment of chronic pulpal inflammations	Oral presentation	-	-	2
11	Biological methods of preservation of the dental pulp	Oral presentation	-	-	2
12	Methods of partial preservation of pulp tissue	Oral presentation	-	-	2
13	Internal anatomy of teeth	Oral presentation	-	-	2
14	Vital and non-vital pulp extirpation	Oral presentation	-	-	2

Bibliography

Arnaldo Castellucci: endodontics, vol 1 and vol 2

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Use of examination tools	Clinical activity	-	-	4
2	Completing the treatment sheet, identifying carious lesions	Clinical activity	-	-	4
3	Diagnostic methodology in simple caries	Clinical activity	-	-	4
4	Cavity preparation in case of simple carious lesions	Clinical activity	-	-	4

5	Diagnostic methodology in case of complicated caries	Clinical activity	-	-	4
6	Cavity preparation in case of complicated carious lesions	Clinical activity	-	-	4
7	Cavity preparation in case of complicated carious lesions	Clinical activity	-	-	4
8	Cavity preparation in case of complicated carious lesions	Clinical activity	-	-	4
9	Cavity preparation in case of complicated carious lesions	Clinical activity	-	-	4
10	Complementary examination methods	Clinical activity	-	-	4
11	Complementary examination methods	Clinical activity	-	-	4
12	Absolute isolation- the usage of rubber dam	Clinical activity	-	-	4
13	Indirect pulp capping	Clinical activity	-	-	4
14	Direct pulp capping	Clinical activity	-	-	4

Bibliography

1. Monica Monea, Pop Mihai: Odontoterapie și elemente de estetică dentară, curs litografiat, UMF Tg. Mures, 2015.
2. Iliescu A.: Tratat de endodonție, vol.I, Ed. Medicală, București, 2014.
3. Iliescu A., Gafar M.: Cariologie și odontoterapie restauratoare, Ed. Medicală, București, 2003.
4. Odontologie. Îndreptar de lucrări practice, Litografia UMF Tg. Mureș, 2004.
-
5. Pop Mihai, Monea Monica, Kovács Mónika, Buka Imola, Bukhari Csilla, Ivácson Csinszka: Alapfogalmak Endodonciában, Ed. University Press, UMF Tg. Mures, 2015.
6. Fazekas Árpád: Megtató fogászat és endodoncia, Semmelweis Kiadó, Budapest, 2006.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

By acquiring the knowledge offered by this discipline, the graduate will be able to respond professionally to the requirements raised by the practical activity.

They perfect their work technique, develop their craftsmanship and benefit from cutting-edge technical training.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	CBL	30
Final evaluation			
- theoretical final exam	-	Test	50
- practical final exam	-	Oral presentation	20
Minimal performance standards:			
In order to pass the exam practical and theoretical exam grade should be above 5,00			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Kovács-Ivacson Andrea-Csinszka	1 ora dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: General radiology			
2.2 Course coordinator: Conf dr Pop Marian			
2.3 Practical activities coordinator(s):			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 3		
- supplemental documentation at the library, from specialized information portals and in the field: 4		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 4		
- examinations: 4		
- other activities: 3		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: -anatomie normala si patologica, fiziologie, fiziopatologie
4.2 competency: nu este cazul

5. Conditions

5.1 for lectures: on line/on site
5.2 for practical activities: on line/on site

6. Specific competencies acquired

6.1 professional competencies: Formarea unui sistem de cunoștințe specifice domeniului radiologiei si imagisticii medicale ; Cunoașterea sistem ului de principii, metode, mijloace specifice imagisticii medicale Să fie capabil de a analiza și transpune practic, inter-disciplinar, cunoștințele teoretice acumulate la curs; Să dobândească capacitatea de a core la diversitatea cunoștințelor dobândite pe parcursul cursului; Să fie capabil de a identifica a și utiliza noi surse de informație necesare pentru rezolvarea unor probleme contextualizate disciplinei parcurse. Forma rea unor preocupări pentru inovație și provocarea schimbărilor, echilibru între spiritul critic și tolerant Dezvoltarea unui comportament empatic și a „or ientării helping” Formarea unor capacități de accesare a diverselor surse de informare în scopul documentării

6.2 transversal competencies: Organizarea de activități de corelare cantitativă și calitativă a imagisticii medicale specifice terapiei fizice și recuperării funcționale a persoanelor cu niveluri diferite de pregătire în condiții de asistență calificată, având la bază cunoștințe, competențe și abilități dobândite prin parcurgerea disciplinei de studiu Respectarea normelor de etică și deontologie profesională având la bază cunoștințe, competențe și abilități dobândite prin parcurgerea disciplinei de studiu Îndeplinirea în condiții de eficiență și eficacitate a sarcinilor de lucru pentru organizarea și desfășurarea activităților de corelare cantitativă și calitativă pe baza cunoștințelor, a competențelor și a abilităților dobândite prin parcurgerea disciplinei de studiu Operarea cu programe digitale documentare a și comunicarea într-o limbă de circulație internațională
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Însușirea noțiunilor de bază referitoare la metodele de investigație imagistice ; însușirea principalelor indicații și contraindicații ale examinărilor radiologice convenționale, CT, ultrasonografice, prin rezonanță magnetică și cu radioizotopi;
7.2 Specific objectives: Interpretarea în context clinic a imaginilor obținute prin radiologie conventionala, CT, ultrasonografie,IRM

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Brief history.X-rays: mechanism of production, atomic structure, X-ray properties, X-ray device. Dosimetry. Protection in radiology. The rules of the radiographic image formation , Basic notions concerning the computer tomography examination:principles, the main characteristics, scanning parameters, indications, contraindications, advantages and disadvantages. Ultrasonography: basic notions.Magnetic resonance imaging	powerpoint presentation	nu sunt	nu sunt	2
2	The radiological diagnosis of the lung lesions-congenital malformations, bronchitis, pneumonias, lung infections, occupational lung disease, tuberculosis, primary and metastatic lung tumors, pleural lesions	powerpoint presentation	TBL	Respiratory tract infection, Chronic bronchitis and emphysema,Carcinoma of the bronchus	2
3	Radiological diagnosis of the mediastinal and diaphragmatic lesions. Masses of anterior, middle and posterior mediastinum.Subphrenic abscess, free peritoneal air diaphragmatic hernia	powerpoint presentation	nu sunt	Dysphagia, stridor	2
4	Radiological diagnosis of the cardiovascular system-investigation methods, the radiological aspects of acquired valvular lesions, pericardial lesions, congenital heart diseases,aortic aneurysms and dissection, pulmonary embolism	powerpoint presentation	nu sunt	Cardiac valve disease , Pericardial disease, congenital heart malformation, aortic aneurysm	2
5	Imaging of the gastro-intestinal tract-esophagus, stomach, duodenum,small and large bowel disease.Imaging of the liver, biliary tree and gall bladder, pancreas,spleen	powerpoint presentation	nu sunt	inflammatory bowel disease, intestinal obstruction,peptic ulcer, carcinoma of the oesophagus, carcinoma of the stomach, carcinoma of the colon and rectum,hepatomegaly, jaundice,	2

				gall bladder disease, carcinoma of the pancreas	
6	Genitourinary imaging : lithiasis, pyelonephritis, tumor of kidneys, congenital malformations, urinary bladder lithiasis and tumors, adrenal masses, benign prostate hyperplasia, prostate cancer, uterine fibroids, ovarian cancer	powerpoint presentation	nu sunt	urinary tract infection, urinary tract obstruction, carcinoma of the uterus/cervix/ovary	2
7	musculoskeletal imaging: radiological semeiology, trauma, infections, bone dystrophies, arthropathies, bone tumors, spine disorders	powerpoint presentation	nu sunt	trauma to limbs, osteomyelitis, osteoporosis osteoarthritis, malignant bone tumors	2
Bibliography Mandatory bibliography: 1.Course support in electronic format. 2.Weissleder R et al - Primer Diagnostic Imaging 5th ed.Mosby 2011 Support bibliography: 1.R.B.Gunde rman - Essential Radiology , second ed., Thieme, 2006					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	demonstration of imaging investigations: Xray, CT scan, ultrasound, MR scan	demonstration	nu sunt	nu sunt	2
2	respiratory pathology	case discussion from laboratory archive	CBL	chronic lung disease, respiratory tract infections, pleural effusion chronic bronchitis and emphysema, carcinoma of the bronchus	2
3	imaging of mediastinum and diaphragm	case discussion from laboratory archive	nu sunt	disphagia, chest pain	2
4	imaging of cardiovascular system	case discussion from laboratory archive	nu sunt	cardiac valvular disease, Pericardial disease Malformations of cardiovascular system, aortic aneurysm, pulmonary embolism	2
5	imaging of gastro-intestinal tract, liver and biliary tree, pancreas, spleen	case discussion from laboratory archive	nu sunt	inflammatory bowel disease, intestinal obstruction, peptic ulcer, carcinoma of the oesophagus, carcinoma of the stomach, carcinoma of the colon and rectum, hepatomegaly, jaundice, gall bladder disease, carcinoma of the pancreas	2
6	imaging of genito-urinary diseases	case discussion from laboratory archive	nu sunt	urinary tract infection, urinary tract obstruction, carcinoma of the uterus/cervix/ovary	2
7	musculo-skeletal imaging	case discussion from laboratory archive	nu sunt	trauma to limbs, osteomyelitis, osteoporosis osteoarthritis, malignant bone tumors	2

Bibliography
Mandatory bibliography:
1.Course support in electronic format.
2.Weissleder R et al - Primer Diagnostic Imaging 5th ed.Mosby 2011
Support bibliography:
1.R.B.Gunde rman - Essential Radiology , second ed., Thieme, 2006

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

La finalul cursului studentii vor fi capabili :
Să explice tendințele și orientările contemporane în domeniul imagisticii medicale
Să utilizeze corect și flexibil terminologia generală și specifică din domeniul imagisticii medicale
Să însușească operațional unele concepte și problematici specifice imagisticii medicale specifice terapiei fizice și recuperării funcționale;
Să realizeze analize critice ale produselor suport oferite în cadrul cursului

Să aplice achizițiile teoretice în proiectarea și derularea unor situații practice efective

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	insusire notiuni teoretice	TBL	10
- practical activities	prezentare caz practic	CBL	20
Final evaluation			
- theoretical final exam	insusire notiuni de baza teoretice	test grila	50
- practical final exam	recunoastere tip investigatie, descriere, formulare diagnostic pozitiv si diferential	examinare cazuri din arhiva laboratorului	20
Minimal performance standards: Recunoasterea tipului unei examinari imagistice (radiografie, computertomografie, imagine rm) scintigrafie, ecografie), corelatia intre tipul de imagine si procesul patologic, diferentierea intre mai multe afectiuni cu imagistica asemanatoare.Evaluarea cu calificativ minim promovabil a nivelului de cunoștințe, competențe profesionale și abilități practice conform specificului disciplinei.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Pop Marian

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Fixed prosthodontics			
2.2 Course coordinator: Conf dr Cerghizan Diana			
2.3 Practical activities coordinator(s): Cerghizan Diana, Janosi Kinga Maria			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8/12	3.2 lecture: 2	3.3 practical activities: 6/10
3.4 Total hours in curriculum: 140	3.5 lectures: 28	3.6 practical activities: 112
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 20		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 19		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 60		
3.9 Total hours: 200		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
Ensuring the clinical-technical conditions for performing prosthetic fixed denture

6. Specific competencies acquired

6.1 professional competencies:
Practical application of appropriate measures for the choice of dento-periodontal support for the realization of different types of dental bridges
- Interpretation of fundamental therapeutical principles for the selection of optimal prosthetic treatment through dental bridges
- Elaboration of standardized data sheets for the coordination of clinical data with treatment particularities, differentiated according to the nature of the pathology.
- Communication between physician and patient or dental technician

6.2 transversal competencies: Identifying achieve, workflow, deadlines, and risks that may occur - Identify roles in a multidisciplinary team - Applying effective relationship and work techniques within the team and in dealing with the patient - Effective use of information resources
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: The discipline addresses the problem of prosthetic treatment of the partial edentation through the dental bridges.
7.2 Specific objectives: The student's acquisition of the elements related to the clinical and therapeutic aspects of the prosthetic treatment of the partial edentation by dental bridges, Elaborating of prosthetic treatment sheets, Communicating physician-technician, physician-patient

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Partially edentulous: Definition, nomenclature, etiology, clinical forms, symptoms, evolution and complications. (Part I)	Oral and multimedia presentation	-	-	2
2	Partially edentulous: Definition, nomenclature, etiology, clinical forms, symptoms, evolution and complications. (Part II)	Oral and multimedia presentation	-	-	2
3	Clinical examination of the partially edentulous patient	assessment - test	-	-	2
4	General principles in the treatment of partial edentation by dental bridges	Oral and multimedia presentation	-	-	2
5	The therapeutic algorithm in the partial edentation treated by dental bridges	Oral and multimedia presentation	-	-	2
6	Preprosthetic non-specific and specific preparations (pro prosthetic) (Part I)	Oral and multimedia presentation	-	-	2
7	Preprosthetic non-specific and specific preparations (pro prosthetic) (Part II)	Oral and multimedia presentation	-	-	2
8	Clinical and technical stages of dental bridge construction - impression	Oral and multimedia presentation	-	-	2
9	Clinical and technical stages of dental bridge construction - determination of intermaxillar relation	Oral and multimedia presentation	-	-	2
10	Clinical aspects of special bridges - Resin bonded bridge	Oral and multimedia presentation	-	-	2
11	Clinical aspects of special bridges - movable and removable bridges	Oral and multimedia presentation	-	-	2
12	Implants supported dental bridges	Oral and multimedia presentation	-	-	2
13	Application, control, and cementation of fixed partial prostheses in the oral cavity. Removal of fixed prosthetic bridges.	assessment - test	-	-	2
14	Therapeutic variants in the treatment of the partial edentation by dental bridges	Oral and multimedia presentation	-	-	2

Bibliography

I. Compulsory bibliography

1. Rosenstiel, Land, Fujimoto CONTEMPORARY FIXED PROSTHODONTICS 2016
2. Keynotes

II. Optional bibliography

1. Schillingbourg HT: Fundamentals of Fixed Prosthodontics 3rd edition, Quintessence Publishing Co. IL, 1997
2. Wiskott A: Fixed Prosthodontics. Principles and Clinics. Quintessence Publishing Co. IL, 2011
3. Pongracz A: Rogzedish fogpottasok, UMF Tg.Mureş, 2003
4. Forna N: Dental Prosthetics, vol.I, pp. 401-805 - Topics included in residency, Encyclopedic Publishing House, 2011

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	6
2	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	6
3	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	6
4	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	6
5	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	6
6	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	6
7	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	6
8	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	10
9	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	10
10	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	10
11	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	10
12	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	10
13	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	10
14	Establishing the treatment plan. Pre and pro prosthetic maneuvers. Treatment of the partial edentation by dental bridges.	Practical demonstrations, case presentations, application of real-world knowledge	-	-	10

Bibliography

1. Rosenstiel, Land, Fujimoto CONTEMPORARY FIXED PROSTHODONTICS 2016

Keynotes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade

Evaluation during the semester			
- lecture	Marks obtained in assesment sessions	Multiple choice questions	15
- practical activities	Semestrial activity: attendance and punctuality (course and internships), qualifiers along the way, fulfillment of the minimum activity scale, qualification obtained at CBL sessions	Practical activities Semestrial activity: attendance and punctuality (course and internships), qualifiers along the way, fulfillment of the minimum activity scale, Appreciation of the work done during the semester by giving a rating for each activity performed.	15
Final evaluation			
- theoretical final exam	Course - material taught and discussed - mandatory bibliography	Multiple choice questions	50
- practical final exam	The student's ability to perform a correct examination of the partial edentation by establishing the prosthetic diagnosis at the end of the trainee, to perform a correct analysis of a study casts, to recognize different types of prosthetic works	oral verification	20
Minimal performance standards: Accumulating more than five absences practical activities (unmotivated or motivated) leads the student not to take exams (practically and theoretically)! The maximum number of applicative activities that can be recovered is 2 Assessment during the semester: 1. During practical work: Fulfillment of the minimum activity scale: - One cast post - 1 point - One single tooth crown - 1 point - Fixed partial denture of at least three elements - 3 points - Temporary fixed partial denture - by the Scutan method - 1 point - A case presentation for an edentulous patient partially treatable by a fixed prosthetic - 4 points The minimum promotion mark is 5.00 (not rounded). 2. At the course Promotion of tests with a minimum of 5.00 (the average of the grades obtained at the 2 assesment sessions will be achieved) Final evaluation: 1. Practical final exam The minimum promotion mark is 5.00 (not rounded). Students who do not promote the final practical assessment have the right to participate in the theoretical examination. 2. The final theoretical exam Multiple choice questions with a certain number of questions from the mandatory bibliography. The mark is made up of the score of the grid test (80%) and the score obtained for the editorial questions in the course notes (20%). The minimum promotion mark is 5.00 (not rounded). Non-passing one of the exams (in practice or theoretically) requires him to resume at the next exam session. MUST SEEN CLINICAL SITUATIONS LIST: 1. Tooth with extensive caries treatable by cast post-and-core 2. Single missing tooth in frontal zone 3. Single missing tooth in lateral zone 4. Frontal partial edentulism, 2 or more teeth missing, treatable by dental bridge 5. Lateral partial edentulism, 2 or more teeth missing, treatable by dental bridge 6. Mixed partial edentulism (frontal+lateral) 7. Partial edentulism with stable occlusion which becomes unstable after teeth preparation 8. Partial edentulism with unstable occlusion			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Cerghizan Diana	Cerghizan Diana - 30 minute după curs/stagii

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M3
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Pediatrics			
2.2 Course coordinator: Șef I dr Chinceșan Mihaela-Ioana			
2.3 Practical activities coordinator(s): Șef I dr Chinceșan Mihaela-Ioana			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: nu este cazul
4.2 competency: nu este cazul

5. Conditions

5.1 for lectures: nu este cazul
5.2 for practical activities: nu este cazul

6. Specific competencies acquired

6.1 professional competencies: Recognition of clinical signs specific to the child with the pathology presented in the course curriculum Performing diagnostic and therapeutic maneuvers for the diseases listed in the curriculum Interpretation of appropriate complementary examinations in pediatric pathology Achieving a personalized therapeutic plan for the child Presentation of a clinical case of pediatrics
6.2 transversal competencies: Acquiring oral and written communication skills with both the mother and the pediatric patient Making a project, performing with responsibility tasks specific to a team Making projects under coordination to solve specific problems in the pediatric field, with the correct assessment of the workload, the available resources, the time needed for completion and the risks, in the conditions of the

deontological norms and the professional ethics in the field, as well as the safety and health at work.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
 The knowledge of basic pediatrics care.

7.2 Specific objectives:
 The known of specific pediatric pathology: neonatology, pneumology, gastroenterology, hematology and pediatric oncology.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	CHILD CARE NOTIONS: describing the childhood periods. Growth and development: weight and height growth, perimeters, teething, psychical and motor development, methods for assessing the growth. Assessing the nutritional status - eutrophic, normotrophic, paratrophic, dystrophic child. Primary prophylaxis; Nutrition	Oral presentation + multimedia	nu	normal child development, weight gain, malnutrition, weight gain, infant feeding, immunisation	2
2	THE NEWBORN: neonatal period, evaluation of the gestational age, the newborn's classification, the newborn's assessment at birth. The newborn at term – morphological particularities, the newborn's physiological crises	Oral presentation + multimedia	nu	normal pregnancy and deliver, normal child development, jaundice	2
3	THE PATHOLOGY OF THE RESPIRATORY SYSTEM: Upper airways infections: Acute rhinopharyngitis – definition, etiology, clinical picture, evolution and treatment; Acute pharyngitis- definition, etiology, symptomatology, laboratory, complications, treatment; Low airways infections: Acute laryngitis, Epiglottitis, Acute bronchiolitis, Asthma, Pneumonia- definitions, general symptomatology, treatment	Oral presentation + multimedia	nu	oral disorders (incl. caries), dysphagia respiratory tract infection, breathlessness, Stridor, cyanosis, asthma, acid based disturbance	2
4	DISORDERS OF THE DIGESTIVE TRACT: Acute diarrhea, acute dehydration syndrome, acute gastritis and peptic ulcer in child. INFANT'S DEFICIENCY DISORDERS: RICKETS- classification, etiology, clinical picture, imagistic investigations, diagnosis, treatment, prophylaxis, evolution and prognosis	Oral presentation + multimedia	Theoretical evaluation	abdominal pain; loose stools; vomiting; peptic ulcer; disorders of calcium and vitamin D metabolism	2
5	THE PATHOLOGY OF THE CARDIOVASCULAR SYSTEM – Congenital cardiac malformations: etiology, the anamnesis of the child with congenital cardiac pathology, clinical exam, paraclinical investigations, classification of congenital cardiac malformations. Congestive cardiac failure: definition, etiology, clinical picture, signs and symptoms, treatment; Infectious endocarditis- definition, prophylaxis, risk groups	Oral presentation + multimedia	nu	cyanosis, breathlessness, oedema; malformations of cardiovascular system; hepatomegaly, endocarditis	2

6	HEMATOLOGICAL PATHOLOGY - Anemias- Iron deficiency anemia- definition, etiology, clinical picture, laboratory, prophylactic and curative treatment; Leukemias- definition, etiology, classification, laboratory, treatment, prognosis. Hemorrhagic diatheses- classification of hemorrhagic syndromes, clinical picture; Hemophilia- definition, classification, clinical picture, laboratory, treatment; Platelets disorders: Purpura Schonlein- Henoch purpura, Immune thrombocytopenic purpura- definition, etiology, clinical manifestations, classification, laboratory, treatment, evolution and prognosis.	Oral presentation + multimedia	nu	anemia; lymphadenopathy; splenomegaly; lymphoproliferative disorders; purpura; coagulation disease	2
7	THE PATHOLOGY OF THE RENO-URINARY SYSTEM: urinary tract infections- definition, etiology, pathogeny, symptomatology, laboratory, treatment, evolution, prognosis; Post-streptococcal acute diffuse glomerulonephritis- definition, etiology, physiopathology, clinical picture, laboratory, diagnosis, treatment, prophylaxis; nephrotic syndrome- definition, classification; Idiopathic nephrotic syndrome- definition, etiology, pathogeny, symptomatology, laboratory, complications, diagnosis, treatment. THE PATHOLOGY OF THE CENTRAL NERVOUS SYSTEM: Febrile seizures- definition, etiology, pathophysiology, clinical picture, laboratory, diagnosis, treatment, prophylaxis	Oral presentation + multimedia	nu	dysuria, haematuria; polyuria; frequency of micturition; urinary tract infection; disturbance of consciousness	2

Bibliography

1. Pediatrics-Course notes. Marginean Cristina Oana, Toganel Rodica, Cucerea Manuela, Borka-Balas Reka, Duicu Carmen, Chincesan Mihaela Ioana, Pitea Ana Maria, Editura University Press Targu-Mures, 2013; 268 pag, ISBN: 978-973-169-266-1, cod CNCIS 210
2. Care and nutrition of newborn and toddler. Marginean Cristina Oana, Editura University Press Targu-Mures 2012, 169 pag, ISBN 978-973-169-179-4

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	NOTIUNI DE PUERICULTURA. Examinarea clinica la sugar si copil. Foaia de observatie în pediatrie. Metode de evaluare a cresterii si dezvoltarii la sugar si copil (percentile greutate, talie, perimetre), Dezvoltarea Neuro-psiho-motorie, dentitia de lapte si definitiva.	demonstratii practice, discutii, prezentari de caz	CBL	dezvoltarea normala a copilului; malnutritie; castig ponderal	2
2	NOU NASCUTUL. Bolile carentiale ale sugarului. Nou nascutul la termen, prematur, postmatur, dismatur, Reflexele arhaice. Crizele nou nascutului. Alimentatia exclusiva si preponderanta, diversificare.	demonstratii practice, discutii, prezentari de caz	nu este cazul	sarcina si nasterea normala/ dezvoltarea normala a copilului, dezvoltarea normala a copilului, icter, alimentatia sugarului	2
3	PATOLOGIA APARATULUI RESPIRATOR. Infectii de cai respiratorii superioare – recunoastere clinica, examinari de laborator si paraclinice. Infectii de cai respiratorii inferioare – recunoastere clinica, examinari de laborator si paraclinice. Insuficienta respiratorie acuta, criterii clinice de recunoastere, oxigenoterapie, indicatii	demonstratii practice, discutii, prezentari de caz	nu este cazul	patologii ale cavitatii bucale; disfagie; otita medie; infectie de tract respirator, dispnee; stridor; cianoza; astm; dezechilibru acido-bazic	2
4	PATOLOGIA APARATULUI DIGESTIV. Criterii clinice de incadrare a sindromului de deshidratare acuta gradul I,II, III, abordare practica. Descrierea scaunelor normale si	demonstratii practice, discutii, prezentari de	nu este cazul	durere abdominala; diaree; varsaturi; ulcer peptic, tulburari ale metabolismului calciului si vitaminei D	2

	patologice la sugar, notarea in FO. BOLILE CARENTIALE ALE SUGARULUI: RAHITISMUL - tablou clinic, examen radiologic, diagnostic, tratament, profilaxia.	caz			
5	PATOLOGIA APARATULUI CARDIOVASCULAR. Anamneza copilului cu cardiopatie congenitala. Examinarea copilului cu MCC. Abordarea practica clinica. Investigatii paraclinice. Recunoasterea clinica a insuficientei cardiace la copil. Endocardita infectioasa – profilaxie.	demonstratii practice, discutii, prezentari de caz	nu este cazul	cianoza; dispnee; edem; malformatii ale sistemului cardiovascular; hepatomegalie; edem;endocardita	2
6	PATOLOGIA HEMATOLOGICA. Anemia feripriva - tablou clinic, laborator, tratament profilactic si curativ; Leucemiile - laborator, tratament. Diatezele hemoragice, hemofilia, sindroame hemoragipare trombocitare: criterii clinice de recunoastere, abordarea practica a hemostazei	demonstratii practice, discutii, prezentari de caz	nu este cazul	anemie;adenopatie; splenomegalie; patologii limfoproliferative, purpura; tulburari de coagulare	2
7	PATOLOGIA APARATULUI RENOURINAR. Infectiile tractului urinar. Examenul de urina. Sindromul nefrotic si Glomerulonefrita- abordare practica clinica, regimul de nefrita, nefroza. PATOLOGIA SISTEMULUI NERVOS CENTRAL : Convulsiile febrile - recunoastere clinica, tratament.	demonstratii practice, discutii, prezentari de caz	nu este cazul	disurie; hematurie; poliurie; diureza/frecventa mictiunilor, infectie de tract urinar; cefalee; presiune intracraniana crescuta	2
Bibliography 1.Pediatrics-Course notes. Marginean Cristina Oana, Toganel Rodica, Cucerea Manuela, Borka-Balas Reka, Duicu Carmen, Chincesan Mihaela Ioana, Pitea Ana Maria, Editura University Press Targu-Mures, 2013; 268 pag, ISBN: 978-973-169-266-1, cod CNCIS 210 2.Care and nutrition of newborn and toddler. Marginean Cristina Oana, Editura University Press Targu-Mures 2012, 169 pag, ISBN 978-973-169-179-4					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The graduate must know and apply their knowledge in the field their speciality.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	punctaj obtinut	1 Evaluare teoretica pe parcursul semestrului – test grila complement simplu/multiplu	15
- practical activities	acuratetea prezentarii cazului	1 CBL –prezentare de caz	15
Final evaluation			
- theoretical final exam	punctaj obtinut	test grila – complement simplu/multiplu	50
- practical final exam	punctaj obtinut	intrebări tip redactional/test cu caracter practic	20

Minimal performance standards:

-Prezenta la Evaluarea teoretica pe parcursul semestrului este obligatorie; nu exista posibilitate de repetare a acesteia, dar este permisa participarea la examenul final. In caz de absenta se va nota cu nota 1.

-Examenul practic este obligatoriu; nota minima de trecere este 5.

-Se considera promovat examenul de Pediatrie in urmatoarele conditii cumulative:

1. Obtinerea unei note de trecere la evaluarea teoretica finala test grila (verificare) mai mare sau egala cu 5.00.

2. Obtinerea unei note de trecere la examenul practic final mai mare sau egala cu 5.00.

Toate notele intermediare vor avea doua zecimale si vor intra ca atare in calculul notei finale. Doar nota finala se va rotunji in sus pentru cele care sunt egale sau depasesc 50 de sutimi, si in jos pentru cele care nu indeplinesc acest criteriu.

11. Must seen clinical situation list

- | |
|---|
| 1. Nou-nascut; Sugar sanatos – dentitie temporara; Distrofia
2. Bronsiolita acuta; Laringita acuta
3. Malformatii cardiace congenitale; criza hipoxica
4. Endocardita infectioasa
5. Hemofilie; PTI
6. ITU febrile; Glomerulonefrita ac
7. Gastrita acuta
8. Convulsii febrile |
|---|

12. Clinical / practical abilities

-Examenul cavitatii bucale la sugar/copil sanatos si cu diferite patologii (Pedodontie 1/3,4,5- pag 49; Pedodontie 2/1,2,5,8-pag 68, Patologie orala 1-14, pag 105) -Masuri de prim-ajutor in urgentele pediatrice (criza hipoxica, hemoragii, febra, convulsii febrile etc) (Pedodontie 2/7-pag 68)

13. Appointment timetable (for students)

Şef I dr Chinceşan Mihaela-loana	30 minute dupa activitatile de curs/activitate practica

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Forensic medicine			
2.2 Course coordinator: Șef I dr Carașca Cosmin			
2.3 Practical activities coordinator(s): Șef I dr Carașca Cosmin, asist univ drd Hogeia Timur, drd Doroftei Dana			
2.4 Year of study: IV	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Anatomy, Physiology, Physiopathology, Clinical Medicine
4.2 competency: not required.

5. Conditions

5.1 for lectures: Access to a videoprojector laptop
5.2 for practical activities: Access to the practical activities room of The Legal Medicine Institute of Targu Mures, which has the logistical requirements(image recording system in the autopsy room, videoprojector, laptop)

6. Specific competencies acquired

6.1 professional competencies: Knowledge of the legal situations and the requirement proceedings of medico-legal expertise on living persons (traumatology, psychiatry, parentage, etc), and cadavers (necropsy). Correct description and interpretation of violent bodily lesions. Correct completion of the death certificate. Knowledge of the thanatogenesis and the specific lesional aspects of some causes of death
6.2 transversal competencies: Respecting the ethical standards of handling and examination of cadavers. Integration of knowledge from other disciplines in a medico-legal and legal context

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Obtaining theoretical and practical knowledge in legal medicine specialty as well as the basic legislative notions used in the current medico-legal practice
7.2 Specific objectives: Obtaining knowledge regarding medico-legal expertise on living persons (traumatology, psychiatric, parentage) as well regarding cadavers (necropsy). Correct recognition and interpretation of physical signs of violence . Correct recognition and interpretation of the criterias of death in clinical practice and in the autopsy room. Knowledge of the correct completion of death certificates. Obtaining knowledge regarding the thanatogenesis and specific lesions present in different causes of death.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	MEDICO-LEGAL TANATOLOGY Definition and stages of death, medico-legal clasfication of death, The signs of death	lecture	-	agresion/violence	2
2	TRAUMATIC LESIONS (medico-legal causality , primary traumatic lesions). LESIONS BY SHARP OBJECTS.	lecture, TBL session	-	Trauma of the limbs , agresion/violence	2
3	MECHANICAL TRAUMAS AND THEIR EFFECTS ON DIFFERENT TISSUES. FALLING AND PRECIPITATION.LESIONS AND DEATH BY ONE'S OWN MEANS OF ATTACK/DEFENCE	lecture	-	cyanosis,cardiopulmonary arrest,trauma of the limbs, sepsis, shock, coagulation disorders	2
4	MECHANICAL ASPHYXIA.LESIONS AND DEATH BY TRAFFIC ACCIDENTS.LESIONS AND DEATH BY FIREGUNS	lecture	-	cyanosis,cardiopulmonary arrest,trauma of the limbs, sepsis, shock, coagulation disorders	2
5	LESIONS AND DEATH BY PHYSICAL AND CHEMICAL AGENTS	lecture	-	Hypothermia, cerebral palsy, burns, acido-basic inbalance,poisoning	2
6	FORENSIC PSYCHIATRIC EXPERTISE. FORENSIC EXPERTISE IN INPRISONMENT CASES.FORENSIC EXPERTISE IN SEXUAL OFFENCES. PATERNITY.INFANTICIDE	lecture	-	agresion/violence, suicide, self-mutilation	2
7	DNA EXPERTISE IN CIVIL AND CRIMINAL LAW. FORENSIC EXPERTISE IN MEDICAL LIABILITY CASES	lecture	-	Substance abuse, drug reactions	2

Bibliography

C.C. Radu, C. Carasca, T. Hogeia. Medicină legală- suport de specialitate. Editura University Press.2020
 C.C.Radu.Aspecte medico-legale si etice ale traumatismului cranio-facial.Editura Universitatii din Oradea.2016
 C.C.Radu. Notiuni introductive de bioetica in medicina legala. Editura Universitatii din Oradea. 2015
 STEP-UP to USMLE STEP 2 CK, 5th Edition
 Knight's Forensic Pathology - 4th Edition
 V.Belis. Tratat de medicina legala. Vol. 1,2 . Editura medicala Bucuresti.1995

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	MEDICO-LEGAL TANATOLOGY. Definition and stages of death, medico-legal clasfication of death. The signs of death	practical activities	-	Agresion/violence	2

2	TRAUMATIC LESIONS (medico-legal causality, primary traumatic lesions). LESIONS PRODUCED BY SHARP WEAPONS	practical activities	-	trauma of the limbs, aggression/violence	2
3	MECHANICAL TRAUMAS AND THEIR EFFECTS ON DIFFERENT TISSUES. FALLING AND PRECIPITATION. LESIONS AND DEATH BY ONE'S OWN MEANS OF ATTACK/DEFENSE	practical activities	-	thoracic /abdominal trauma, trauma of the limbs, aggression/violence	2
4	MECHANICAL ASPHYXIA. LESIONS AND DEATH BY TRAFFIC ACCIDENTS. LESIONS AND DEATH BY FIREARMS	practical activities	-	cyanosis, cardiopulmonary arrest, trauma of the limbs, sepsis, shock, coagulation disorders.	2
5	LESIONS AND DEATH BY PHYSICAL AND CHEMICAL AGENTS	practical activities ,CBL	-	Hypothermia, cerebral palsy, burns, acido-basic imbalance, poisoning	2
6	FORENSIC PSYCHIATRIC EXPERTISE. FORENSIC EXPERTISE IN IMPRISONMENT CASES. FORENSIC EXPERTISE IN SEXUAL OFFENCES .PATERNITY. INFANTICIDE	practical activities	-	aggression/violence. Suicide, self-mutilation	2
7	DNA EXPERTISE IN CIVIL AND CRIMINAL LAW. FORENSIC EXPERTISE IN MEDICAL LIABILITY CASES	practical activities	-	Substance abuse, drug reactions	2

Bibliography

1. C.C. Radu, C. Carasca, T. Hogeia. Forensic medicine- specialty support, University press, 2021
2. C.C. Radu. Aspecte medico-legale si etice ale traumatismului cranio-facial. Editura Universitatii din Oradea. 2016
3. C.C. Radu. Notiuni introductive de bioetica in medicina legala. Editura Universitatii din Oradea. 2015
4. STEP-UP to USMLE STEP 2 CK, 5th Edition
5. Simpson s Forensic Medicine, 14th edition
6. V. Belis. Tratat de medicina legala. Vol. 1,2 . Editura medicala Bucuresti. 1995

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Analysing done in the discipline is followed by discussions in order to harmonize with other disciplines. The equivalence between the content and the expectations of the academical community, it's representatives, professional associates and staff is taken into account.

The discipline follows to offer the students optimal premises to get successfully hired, immediately after graduation, in residency programmes in Romania and other EU countries.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	1 TBL session, assessment during the lectures	Assessment during the lectures using interactive questions	20
- practical activities	1 CBL session, assessment during the practical activities	Assessment during the lectures using interactive questions	10
Final evaluation			
- theoretical final exam	Sumative assesement	Multiple question test	60
- practical final exam	PA assessment- forensic certificate	Assessment during the recapitulative lecture	10
Minimal performance standards: Minimal passing grade - 5			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Caraşca Cosmin	Miercuri 12-13

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Magnification in endodontics			
2.2 Course coordinator: Șef I dr Pop Mihai			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
videoprojector, laptop
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
The ability to use magnification equipment.
Knowledge of the clinical indications and advantages of the magnification systems.
Understanding of ergonomic principles and correct use of the instruments.
6.2 transversal competencies:
Developing the ability of students from higher years to establish the correct diagnosis, the indication of retreatment and the realization of its clinical stages, using the magnification systems (dental microscope and magnifiers).

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
 Getting the students familiarized with the use of magnification systems, used in different fields of dental medicine.

7.2 Specific objectives:
 Training of the skills of using the instruments specific to the dental microscope, of ergonomics and knowledge of the clinical situations in which they are indicated for use.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Magnification in dentistry	Prezentare orală și multimedia	-	-	2
2	Advantages of magnification and indication of its use	Prezentare orală și multimedia	-	-	2
3	Guidelines of ergonomic use of magnification in endodontics	Prezentare orală și multimedia	-	-	2
4	Clinical use of the dental operating microscope in endodontics and other dental specialties	Prezentare orală și multimedia	-	-	2
5	Factors that make the use of magnification difficult	Prezentare orală și multimedia	-	-	2
6	Importance of magnification in establishing diagnosis	Prezentare orală și multimedia	-	-	2
7	The use of the operating dental microscope in endodontic retreatment	Prezentare orală și multimedia	-	-	2

Bibliography

A Castellucci: Endodontics, vol I și II. Edizioni Odontoiatriche Il Tridente, 2003
 S Cohen: Pathways of the pulp, 10-th edition, Mosby Elsevier, St. Louis, Missouri, 2011
 Manual pentru rezidențiat, Volumul I, sub redacția Prof.dr. Ecaterina Ionescu, Editura Universității Carol Davila București, 2021.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The students' training program must also include elementary notions of the use of magnification in endodontic therapy, an aspect emphasized by international specialized bodies.
 The quality of the medical act is dependent on the degree of visibility, and this can only be obtained by using the dental microscope.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Colocviu - test grilă	-	100
- practical final exam	-	-	0
Minimal performance standards:			
n vederea promovării este necesară obținerea minimum notei 5,00 la testul grila.			
Indicațiile folosirii magnificării în endodonție și în odontoterapie. Principiile ergonomice ale magnificării.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Pop Mihai	30 minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Interdisciplinary confluences in orthodontics			
2.2 Course coordinator: Prof dr Păcurar Mariana			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: Complex orthodontic diagnosis and individualized treatment plan
4.2 competency: Basic knowledge of dental morphology, dental occlusion

5. Conditions

5.1 for lectures: Computerized presentation, prohjector, flipchart
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Elaboration of a complex and individualized treatment plan by clinical examination, complementary examinations (model analysis, radiography examination (OPG and teleradiography), photostatic exam, static and dynamic occlusion examination, anthropometric measurements) Establishing a morphological, etiological, and functional orthodontic complex diagnosis. Establishing therapeutic goals. Preparing the patient for the orthodontic therapy Knowing the stages of ADM growth and development, the importance of space management in mixed and permanent dentition Knowledge of methods to combat malfunctions and dysfunctions of dento-maxillary apparatus. Selective drilling, stripping, exercises of myogymnastics.

6.2 transversal competencies: Identifying the objectives to be achieved, the working steps, the implementation deadlines, the available resources, the risks and the conditions for completion a stabile and functional occlusion; Identifying the role and responsibility of a multidisciplinary team; Performing orthodontic screenings in different age groups to identify the epidemiological aspects of different types of malocclusion; Early identification of serious skeletal disorders, of facial harmony and orientation towards specialist surgery. Effective use of information resources, communication and training resources both in Romanian, Hungarian and in an international language, in order to elaborate and present a specialized paper; Identifying objectives, work phases, available resources, risk factors in targeted work.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Elaboration of an orthodontic complex diagnosis and identification of the therapeutic objectives.
7.2 Specific objectives: Acquiring skills for interdisciplinary case analysis

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The reaction of pulpal structures to orthodontic force. The advantages of the pulpotest	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
2	The effects of orthodontic force on periodontal structures	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
3	Methods of preventing gingival recession	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
4	Methods of prevention of root resorption	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
5	Molar uprighting preprosthetic orthodontic therapy	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
6	Surgical methods in diastema prevention.	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2
7	White spot lesions	Power point presentation	-	There are correlations between the content of the topics and the diagnostic skills of the future dentist	2

Bibliography

1. Păcurar M, Drașovean A – Anomaliile dento-maxilare – curs, Universitatea de Medicină și Farmacie Tg.Mureș, 2015, 194
2. Ecaterina Ionescu - Anomaliile dentare, Editura Cartea Universitară, București, 2005
3. Graber T. Orthodontics: Current Principles and Techniques. Fourth Edition. Mosby Elsevier, 2005

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline provides students with an overview of the correlations between Orthodontics and other dental specialties for a holistic approach to the patient.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade

Evaluation during the semester			
- lecture	TBL	Mean grade of the 2 TBL modules	20
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Test	Multiple choice test	80
- practical final exam	-	-	0
Minimal performance standards: The final mark for promotion is 5 (five) and is made up of the assessments during the semester (TBL, CBL) respectively the final examinations. The student is required to attend all the evaluations throughout the academic year. If absent from a TBL module, the mark will be 1; there is no possibility of repeating this assessment, but it will still be possible to support the final exam. In the case of absences at TBL sessions for extremely justified reasons, the student has the possibility to draw up a review on the topic			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Păcurar Mariana	

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Laser in dentistry			
2.2 Course coordinator: Conf dr Bechir Edwin-Sever			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 18		
- supplemental documentation at the library, from specialized information portals and in the field: 6		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Multimedia Equipment
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Acquiring the knowledge needed to develop a laser based treatment plan. Acquiring theoretical knowledge that implies choosing the type of laser and its parameters according to the future intervention.
Ability to gain knowledge about choice of ideal candidate for laser treatments.
6.2 transversal competencies:
Cognitive skills:
Concepts of laser therapies
Concepts of paraclinical investigations useful in formulating effective diagnoses and treatment plans.

Affective-value competencies: Communication with the patient.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Knowledge of laser therapies, indications, contraindications, laser therapy variants
7.2 Specific objectives: Understanding the methods of examining patients. Understanding the importance of the oral rehabilitation concept supported by laser therapies. Acquiring the knowledge needed to develop an individualized treatment plan supported by laser therapies.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Laser Basics	Multimedia presentation	-	-	1
2	Laser physics	Multimedia presentation	-	-	1
3	Laser Safety	Multimedia presentation	-	-	1
4	Types of lasers	Multimedia presentation	-	-	1
5	Diode lasers	Multimedia presentation	-	-	1
6	Diode laser applications	Multimedia presentation	-	-	1
7	Diode lasers and diode laser clinical applications	Multimedia presentation	TBL	-	1
8	Nd:YAG lasers	Multimedia presentation	-	-	1
9	Nd:YAG laser applications	Multimedia presentation	-	-	1
10	Er:YAG lasers	Multimedia presentation	-	-	1
11	Er:YAG laser applications	Multimedia presentation	-	-	1
12	CO2 lasers	Multimedia presentation	-	-	1
13	CO2 laser applications	Multimedia presentation	-	-	1
14	Clinical situations for different types of lasers and their effects on tissues - soft tissues, hard tissues, implants	Multimedia presentation	TBL	-	1

Bibliography

Bibliography

1. Aldo Brugnara Jr., Samir Namour. Laser Dentistry: Current Clinical Applications, World Federation for Laser Dentistry Universal Publishers, 2018.
2. Donald J. Coluzzi, Robert A. Convissar. Atlas Of Laser Applications In Dentistry, Quintessence Pub Co, 1st edition, 2007.
3. Patricia M. Freitas, Aylene Simões. Lasers in Dentistry: Guide for Clinical Practice, Wiley-Blackwell, 1st edition, 2015.
4. Olivi Giovanni, De Moor Roeland, DiVito Enrico. Lasers In Endodontics, Springer International Publishing, 2016.
5. Course notes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is relevant and updated to the requirements of the correct application of the notions of laser therapies in oral rehabilitation, periodontology, implantology, and of general pathology, pharmacology, physiopathology and psychology.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course.	3 TBL sessions	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects of the course.	Multiple choice examination	70
- practical final exam	-	-	0
Minimal performance standards: Minimal performance standards: Obtain the minimum score of 5 (five) for each evaluation component: course: - to know the basic notions regarding laser therapy, - to participate in the TBL debates in the above-mentioned themes			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Bechir Edwin-Sever	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M3
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Pregnant and post-partum women in the dental office			
2.2 Course coordinator: Șef I dr Molnar-Varlam Claudiu			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Appointment timetable (for students)

Şef I dr Molnar-Varlam Claudiu	

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Digital orthodontics			
2.2 Course coordinator: Prof dr Păcurar Mariana			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: no
4.2 competency: no

5. Conditions

5.1 for lectures: projector
5.2 for practical activities: -

6. Specific competencies acquired

6.1 professional competencies: Computer aid complex etiologic, morphological and functional complex orthodontic diagnosis
6.2 transversal competencies: Identification of serious skeletal anomalies, affecting facial harmony and guidance to specialized services (orthodontics, OMF surgery) Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Elaboration of an orthodontic complex diagnosis by modern techniques
7.2 Specific objectives: Acquiring the computational analysis features of lateral cephalometry - Knowing the optimal moment to establish an orthodontic treatment based on the assessment of skeletal age using the CVM method - Designing a complex orthodontic treatment plan based on child's age, general health status, with emphasis on the nature of the anomaly (functional, anatomical) - The role of CBCT in the diagnosis of anomalies (retained canine).

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Orthodontic programming and storage software. Finite element method FEM, method of evaluation of dental movements in orthodontic biomechanics	Power Point Presentation	-	-	2
2	Growth assessment on profile telerradiography, VTO method in orthodontic diagnosis. Use of Dolphin software in measurements on profile cephalogram	Power Point Presentation	-	-	2
3	Diagnostic set-up, advantages and limitations of the Invisalign technique	Power Point Presentation	-	-	2
4	My dent digital application, possibilities for online communication with patients	TBL	-	-	2
5	Scanning and storing models on computer. The advantages of the digital method. Digital photography. Means of assessing facial asymmetries	Power Point Presentation	-	-	2
6	The advantages of Easy Dent radiological software in detecting root resorption following orthodontic therapy. Total space analysis. Cephalometric correction after growth prediction	Power Point Presentation	-	-	2
7	CVM method of bone age analysis compared to dental and chronological age. Transversal expansion assessment. (Pennsylvania CBCT Analysis) 3D facial recognition software. Evaluation of craniofacial parameters in digital orthodontics	Power Point Presentation	-	-	2

Bibliography

1. Mártha Krisztina, Cristina Bică: OrthoAtlas, Ed. University Press Tg. Mureș, 2015, ISBN: 978-973-169-329-3
2. Cristina Bică, Lăgia Brezeanu: Deplasarea dentară ortodontică. Modele, simulări și aplicații. Ed. University Press Tirgu Mures, 2012

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Assessing the optimal time to start an orthodontic treatment, assessing facial growth patterns with computerized radiographic techniques

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	information acquired	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	final exam	multiple choice test	70

- practical final exam	-	-	0
Minimal performance standards: Minimum 5			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Păcurar Mariana

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Periodontal regeneration and surgical techniques			
2.2 Course coordinator: Șef I dr Benedek Csilla			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Videoprojector, PC, flipchart
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
Knowledge of the periodontal regeneration methods.
Knowledge of the biomaterials of the periodontal regeneration.
The complex rehabilitation of the periodontal diseased patient.
6.2 transversal competencies:
The formation of skills to collaborate interdisciplinary with similar medical specialities (dento-alveolar surgery) to realize a complex treatment of the periodontal disease. Knowledge of the working methods of the students on medium and long term regarding the results of the periodontal therapy in case of different patient groups.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Knowledge of the data linked with the surgical treatment and with the guided tissue regeneration of the different types of periodontal diseases.
7.2 Specific objectives: Knowledge of the general principles of the periodontal surgery. Assimilation of the different types of incisions, flaps and sutures used in periodontal surgery. Assimilation of periodontal surgical techniques. Knowledge of the periodontal regeneration phases.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	General principles of the periodontal surgery. Tissue management and patient preparation.	Oral and multimedia presentation	-	-	2
2	Surgical instrumentation. Types of incisions. Types of flaps. Types of sutures.	Oral and multimedia presentation	Individual testing of the students, solving the test in working groups, clarifying difficult aspects	-	2
3	Surgical treatment of the gingival hyperplasia.	Oral and multimedia presentation	-	-	2
4	Periodontal pocket surgery.	Oral and multimedia presentation	-	-	2
5	Mucogingival surgery.	Oral and multimedia presentation	-	-	2
6	Osseous surgery.	Oral and multimedia presentation	-	-	2
7	Guided tissue regeneration.	Oral and multimedia presentation	-	-	2

Bibliography

1. Newman MG, Takei H, Klokkevold PR, Carranza FA. Newman and Carranza's Clinical Periodontology 13th Edition, Elsevier Health Sciences, 2019.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the the discipline is strongly linked with the necessity of the employers in the field of health, medical management, medical education, firms of medicines, research in dental medical field.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Presence, mark obtained at TBL	The arithmetic mean of the marks obtained when assessing the fulfillment of the evaluation criteria	30
- practical activities	-	-	0
Final evaluation			

- theoretical final exam	Knowledge of the surgical and regenerative treatment methods in different types of periodontal disease.	Test	70
- practical final exam	-	-	0

Minimal performance standards:

In case of non attending more than 2 courses, the student will not be accepted in the final exam!

In case of non attendance of the TBL sessions it will be given the mark 1. It is not possible to repeat this kind of assessment, but it will be allowed anyhow the attendance of the final exam. In case of an extremely justified absence during TBL evaluation the student can make an essay related with the topic of the TBL.

Final evaluation:

The minimum promotion mark is 5.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Benedek Csilla	Marti 10-12

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Minimally invasive techniques in prosthetic dentistry			
2.2 Course coordinator: Conf dr Cerghizan Diana			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 3		
- examinations: 5		
- other activities: 1		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
-
6.2 transversal competencies:
-
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
-
7.2 Specific objectives:
-

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Minimally invasive techniques - prosthetic perspectives, definition, classification	Oral + multimedia presentation	-	-	2
2	Dental veneers - history, indications, contraindications, adhesive cementation	Oral + multimedia presentation	-	-	2
3	Dental veneers - workflow	Oral + multimedia presentation	-	-	2
4	Dental veneers - case report	Oral + multimedia presentation	-	-	2
5	Partial crowns - indications, contraindications, workflow	Oral + multimedia presentation	-	-	2
6	Anchoring systems - indications, contraindications, workflow	Oral + multimedia presentation	-	-	2
7	Adhesive bridge - indications, contraindications, workflow	Oral + multimedia presentation	-	-	2
Bibliography course notes					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Disease state identification and accurately diagnosing dental condition(s).
Conservative treatment of dento-periodontal structures.
Diagnosis and interceptive treatment of dentomaxillary anomalies.
Prosthetic restoration of dental arches.
Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	quiz test	single/multiple choice questions	100
- practical final exam	-	-	0
Minimal performance standards: minim 5 grade			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Cerghizan Diana	Cerghizan Diana - 30 minute după curs/stagii

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Risk management of occupational injuries and illness in dentistry			
2.2 Course coordinator: Șef I dr Dobreci Liana-Claudia			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Cunoașterea și utilizarea adecvată de către studenți a noțiunilor de bază referitoare la: utilitatea și obligativitatea evaluării sistemelor de muncă din punct de vedere al securității muncii; elementele procesului de muncă și interacțiunea lor; accidentul de muncă și boala profesională ca disfuncții ale sistemului de muncă; consecințele sociale și economice ale accidentelor de muncă și bolilor profesionale; responsabilitatea socială în domeniul securității și sănătății în muncă.
6.2 transversal competencies: -identificarea și gestionarea resurselor disponibile, a etapelor de lucru, a duratelor de execuție, a termenelor de realizare aferente sarcinilor/proiectelor profesionale; -identificarea rolurilor și responsabilităților într-o echipă și aplicarea de tehnici de relaționare și muncă eficientă în

cadrul echipei; -identificarea oportunităților și surselor informaționale în vederea formării continue pentru propria dezvoltare profesională; -aplicarea, în mod responsabil, a principiilor, normelor și valorilor eticii profesionale în realizarea sarcinilor profesionale.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Dobândirea de cunoștințe, dezvoltarea de deprinderi și abilități în domeniul securității și sănătății în muncă
7.2 Specific objectives: Asimilarea cunoștințelor privind evaluarea riscurilor de accidentare și îmbolnăvire profesională în domeniul medicinei dentare, abilități necesare în vederea organizării și autorizării cabinetelor din punct de vedere al protecției muncii și elaborării instrucțiunilor proprii de securitate a muncii.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Conceptul de securitate și sănătate în muncă, cursul prezintă conceptul actual de „securitate și sănătate în muncă - ssm” - concept amplu și complex, având caracter științific, juridic și metodologic aplicativ – de tip proactiv, în opoziție cu comportamentul reactiv care se bazează pe căutarea soluțiilor și luarea măsurilor doar după ce problemele deja au apărut.	Prezentare Power-Point, discuții interactive, studii de caz	-	-	2
2	Cadrul legislativ referitor la securitatea și sănătatea în muncă, prezintă: un scurt istoric privind preocupările legislative de ssm, procesul de armonizare a legislației române cu cea a UE, structura și caracteristicile sistemului legislativ în domeniul ssm, precum și instituțiile sistemului național de ssm.	Prezentare Power-Point, discuții interactive, studii de caz	-	-	2
3	Disfuncțiile sistemului de muncă - factori de risc de accidentare și/sau îmbolnăvire profesională, după prezentarea celor patru elemente ale sistemului și procesului de muncă (executant, sarcină de muncă, mijloace de producție, mediu de muncă), abordează disfuncțiile sistemului de muncă ca factori de risc de accidentare și/sau îmbolnăvire profesională, respectiv ca și cauze potențiale ale accidentelor de muncă și a bolilor profesionale, inclusiv consecințele posibile ale acțiunii factorilor de risc asupra organismului uman.	Prezentare Power-Point, discuții interactive, studii de caz	-	-	2
4	Accidentul de muncă și boala profesională, prezintă: geneza fenomenelor de accidentare și de îmbolnăvire profesională, elementele, efectele și clasificarea accidentelor de muncă, noțiunea de boală profesională și clasificarea bolilor profesionale, respectiv consecințe sociale și economice ale accidentelor de muncă și bolilor profesionale.	Prezentare Power-Point, discuții interactive, studii de caz	-	-	2
5	Metode de evaluare a securității muncii, prezintă: utilitatea și obligativitatea evaluării sistemelor de muncă din punct de vedere al securității muncii, posibilități, metode și indicatori de evaluare a securității muncii, respectiv evaluarea postaccident (a posteriori) și evaluarea preaccident (a priori). Metoda analitică (INCDPM - București) de evaluare a riscurilor de accidentare și de îmbolnăvire profesională este prezentată pe larg - începând de la premisele teoretice până la descrierea în detaliu a metodei - cu toate etapele și fazele metodei.	Prezentare Power-Point, discuții interactive, studii de caz	-	-	2
6	Sistemul de management al securității și sănătății în muncă, prezintă: avantajele implementării și integrării unui sistem de management al securității și sănătății în muncă, familia de standarde OHSAS 18000 în relație cu sistemele de management al securității și sănătății în muncă, respective	Prezentare Power-Point, discuții interactive, studii de caz	-	-	2

	documentele sistemului de management al SSM.				
7	Studii de caz, cursul prezintă aplicarea metodei elaborate de INCDPM - București pentru evaluarea riscurilor de accidentare și îmbolnăvire profesională pentru un medic dentist, asistentă și tehnician de laborator.	Prezentare Power-Point, discuții interactive, studii de caz	-	-	2

Bibliography

Bibliografie:

Bârlean L., Dănilă I., "Prevenirea transmiterii infecției în stomatologie", Ed. Edict, Iași, 2003,
 Darabont A., Pece St., Dăscălescu A. Managementul securității și sănătății în muncă, vol.1 și 2, Editura AGIR, București, 2001

Pece Șt., Dăscălescu A., Metodă de evaluare a riscurilor de accidentare și îmbolnăvire profesională, Institutul Național de Cercetare – Dezvoltare pentru Protecția Muncii (INCDPM), București, 2003

Pece, Șt., Evaluarea riscurilor în sistemul de muncă, Editura Rubin, București, 2010

Niculescu, T., ș.a., Medicina muncii, Editura: MEDMUN, București, 2003

* * * Legea securității și sănătății în muncă nr. 319/2006, Monitorul Oficial al

României, Partea I, nr. 646/26.07.2006

* * * H.G. nr. 1425/2006 pentru aprobarea Normelor metodologice de aplicare a prevederilor Legii securității și sănătății în muncă nr. 319/2006, Monitorul Oficial al României, Partea I, nr. 882/30.10.2006

*** SR OHSAS 18001:2008 - Sisteme de management al sănătății și securității ocupaționale. Cerințe

*** SR OHSAS 18002: 2009 – Sisteme de management al sănătății și securității ocupaționale. Linii directoare pentru implementarea OHSAS 18001

*** <http://www.mmuncii.ro> – Ministerul Muncii

*** <http://www.ms.ro> – Ministerul Sănătății

*** <http://www.proteciamuncii.ro>

*** <http://www.inpm.ro> - Institutul Național de Cercetare-Dezvoltare pentru Protecția Muncii

*** <https://osha.europa.eu> - Agenția Europeană pentru SSM

*** http://europe.osha.eu.int/good_practice/sector/education/

*** <http://www.cmdr.ro> - Colegiul Medicilor Dentiști din Romania

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Competențele acumulate vor fi necesare medicilor dentiști care își desfășoară activitatea: în cadrul unor cabinete individuale și spitale, respectiv în cadrul compartimentelor de SSM, fie ca persoane fizice autorizate în domeniu și care prestează servicii de specialitate în vederea autorizării unităților medicale din punct de vedere al protecției muncii.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Participarea și capacitatea de înțelegere a problematicii prezentate la curs	Test grilă	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	Răspunsurile la testul scris final de colocviu	Test grilă final	70
- practical final exam	-	-	0
Minimal performance standards:			
Nota minimă de promovare este 5			
Standard minim de performanță: promovarea testului din timpul anului cu nota minimă 6			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Dobreci Liana-Claudia	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Geriatric dentistry			
2.2 Course coordinator: Prof dr Suci Mircea			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: IV+V+VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Opt

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes:		
- supplemental documentation at the library, from specialized information portals and in the field:		
- preparation for seminars / laboratories, homework, reports, portfolios and essays:		
- tutorial activities:		
- examinations:		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
4.2 competency:

5. Conditions

5.1 for lectures:
5.2 for practical activities:

6. Specific competencies acquired

6.1 professional competencies:
6.2 transversal competencies:
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
7.2 Specific objectives:

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
Bibliography					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture			0
- practical activities			0
Final evaluation			
- theoretical final exam			0
- practical final exam			0
Minimal performance standards:			

11. Appointment timetable (for students)

Prof dr Suciu Mircea	

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Epidemiology and preventive medicine			
2.2 Course coordinator: Șef I dr Golea Cristina			
2.3 Practical activities coordinator(s):			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 2		
- examinations: 3		
- other activities: 2		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: no
4.2 competency: no

5. Conditions

5.1 for lectures: - Mobile phones will be closed during the lectures and practical activities, no personal telephone calls will be allowed during the lectures and practical activities - Punctuality is required for lectures and practical activities;
5.2 for practical activities: - Attendancy is compulsory for practical activities - Maximum 15% absences accepted. - Maximum 15% absences may be recuperated by pay, during the pre-session (excepted medical cases, after deans office' s approval). - Verification for practical activities and lectures during the last week of the module

6. Specific competencies acquired

6.1 professional competencies: - Gestionarea bazelor teoretice si legislative ale sistemelor de sanatate operationale in Romania, precum si a celor manageriale vizând cabinetul de medicina dentara. - Selectarea adecvata a legislatiei sanitare si a metodelor de management in domeniul medicinei dentare - Aplicarea metodelor de planificare, coordonare a serviciilor de sanatate, de asigurare a managementului

cabinetului dentar pe piata de servicii medicale reglementata in UE. - Evaluarea critica a rezultatelor activitatii medicale individuale si institutionale, respectand legislatia in vigoare, a eticii si deontologiei profesionale. - Distribuirea, din perspectiva manageriala, de roluri si sarcini membrilor echipei - Proiectarea unui plan managerial pentru activitatea unui cabinet de medicina dentara - Evaluarea corecta a riscului de imbolnavire sau a contextului aparitiei unei imbolnaviri individuale colective, urmate de alegerea si aplicarea masurilor adecvate de profilaxie. - Identificarea principiilor de aplicare a masurilor de preventie, precum si a instrumentelor care stau la indemana medicului - Interpretarea si analiza factorilor de risc in vederea identificarii celor mai eficiente masuri de preventie a bolilor - Aplicarea masurilor de profilaxie adecvate pentru a preveni imbolnavirile precum si a celor de reechilibrare recuperare a consecintelor unor boli deja declansate - Observatia si evaluarea critica a rezultatelor aplicarii masurilor de profilaxie, atat in ceea ce priveste patologia individului, cat si a colectivitatilor - Elaborarea si aplicarea unui plan concret de profilaxie care sa asigure prevenirea aparitiei, agravarea sau/si instalarea consecintelor invalidante ale imbolnavirii. - Realizarea unui plan de profilaxie primara, secundara si terciara intr-o situatie data.
6.2 transversal competencies: - Identificarea obiectivelor de realizat, a resurselor disponibile, conditiilor de finalizare a acestora, etapelor de lucru, timpilor de lucru, termenelor de realizare aferente si riscurilor aferente - Identificarea rolurilor si responsabilitatilor într-o echipa pluridisciplinara si aplicarea de tehnici de relationare si munca eficienta în cadrul echipei si în relatie cu pacientul - Utilizarea eficienta a surselor informationale si a resurselor de comunicare si formare profesionala asistata (portaluri Internet, aplicatii software de specialitate, baze de date, cursuri on-line etc.) atât in limba romana cat si intr-o limba de circulatie internationala
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: - Specialitatea se ocupa cu activitati practice rezultate in urma studiului distributiei starilor de sanatate si de boala cat si a determinantilor acestora, in populatia generala sau in grupuri specifice, pentru realizarea prevenirii si controlului problemelor de sanatate la nivel individual si al comunitatii, in acord cu politicile de sanatate la nivel local, regional si international. - Prezentarea notiunilor de epidemiologie a bolilor transmisibile (epidemiologie generala si speciala) necesare in practica unui cabinet de medicina dentara.
7.2 Specific objectives: - Cunoașterea obiectivelor epidemiologiei clinice, care pornind de la criterii științifice permit aplicarea metodelor epidemiologice în activitatea medicală. - Insusirea notiunilor privind procesul epidemiologic al bolilor infectioase, a notiunilor privind epidemiologia, prevenirea si controlul unor boli infectioase (infectii nosocomiale, infectia HIV/SIDA, hepatite virale) si a unor boli neinfectioase.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Epidemiology –preventive medicine science (Objectives . Study fields. Hystorical data). Clinical epidemiology. Definitions, objectives. Health and disease. Causality. Disease prevention and control (primordial, primary, secondary and tertiary prevention)	Oral and multimedia presentation	X	Paleative care, Transfusion of blood products, Pre-operative care, Post operative care, Fever, Drug reactions. Contraception	2
2	Epidemiological process for communicable and non-communicable diseases. Definition, structure, infectious process, epidemic site, site of infection. Sources of pathogenic agents for communicable diseases/ risk factor sources for non-communicable diseases. Ways and routes of transmission. Receptivity, resistance, immunity, vulnerability, adaptation capacity.	Oral and multimedia presentation	X	Infectious disease of childhood, Malaria, Drug reactions, cerebrovascular disease, Immunization, Immunodeficiency	2

	Favoring factors for the epidemiological process. Manifestation forms for the epidemiological process.				
3	Epidemiology of hospital acquired infections (HAI). Definition, etiology, risk factors, classification . Structure of epidemiological process. Surveillance. Prevention and intervention strategies for HAI	Oral and multimedia presentation	TBL -General epidemiology	Immunisation, Immunodeficiency Pre-operative care, Post operative care	2
4	Epidemiology of enteral and parenteral transmitted viral hepatitis and sexually transmitted diseases/HIV-AIDS. Pathogenic agents. Structure of epidemiological process, prevention and intervention methods.	Oral and multimedia presentation	X	Gastroenteritis Jaundice Hepatomegaly, Transfusion of blood products, HIV, Immunodeficiency, Sexually transmitted diseases	2
5	Epidemiology of diseases prevented by vaccination. Pathogenic agents. Structure of epidemiological process, prevention and intervention methods	Oral and multimedia presentation	X	Infectious disease of childhood Immunization,	2
6	Epidemiology of respiratory/digestive transmitted diseases. Pathogenic agents. Structure of epidemiological process, prevention and intervention methods	Oral and multimedia presentation	x	Respiratory tract infection, Tuberculosis Gastroenteritis Infectious disease of childhood	2
7	Epidemiology of non-communicable diseases: cancer, metabolic diseases: DM type 1 And 2, obesity, cardiovascular diseases, respiratory diseases, digestive diseases, neurological and psyhiatrical diseases. Descriptive epidemiology, morbidity/mortality rates, causality and risk assessment.. Structure of epidemiological process, prevention and intervention methods.	Oral and multimedia presentation	X	Carcinoma of the colon and rectum, Diabetes mellitus Cerebrovascular disease	2

Bibliography

References:

1. Voidăzan Toader Septimiu, Golea Cristina, Toth Réka: "Epidemiologia bolilor transmisibile", Editura University Press - Târgu Mureș, 2020, ISBN 978-973-169-673-7
2. Voidăzan Toader Septimiu, Golea Cristina, Toth Réka: "Epidemiologia bolilor netransmisibile", Editura University Press - Târgu Mureș, 2020, ISBN 978-973-169-672-0
3. Voidăzan Toader Septimiu, Ruța Florina Daniela; "Epidemiologia bolilor canceroase" Editura University Press - Târgu Mureș, 2016, 160 de pagini, ISBN 978-973-169-480-1, Cod CNCIS 210
4. Gordis L. Epidemiology, 5th edition. 2014. ISBN 9781455742516. Available online: <https://studentconsult.inkling.com/store/book/gordis-epidemiology-5th/>

Support bibliography:

1. Bonita R, Beaglehole R, Kjellström T. Basic epidemiology, 2nd edition. World Health Organization, 2006. Available online: http://apps.who.int/iris/bitstream/10665/43541/1/9241547073_eng.pdf
2. Last J.M.: A Dictionary of Epidemiology, 4th ed., Oxford University Press, New York, 2000
3. Merrill R. M.: Principles of Epidemiology, Workbook, Jones&Bartlett Learning, Sudbury, 2011
4. Ivan A., Azoică D., Grigorescu R.: Epidemiologie generală și specială - Ediție bilingvă, Ed. Polirom, Iași, 1996, (English version: GENERAL AND SPECIAL EPIDEMIOLOGY, p 103-197)
5. Bocșan I.S.: Epidemiologie practică pentru medicii de familie, editura Medicală Universitară „Iuliu Hațieganu”, Cluj-Napoca, 1999
6. Ivan A.: Tratat de Epidemiologie a bolilor transmisibile, Ed. Polirom Iași, 2002
7. Sabău M., Voidăzan S, Golea C., : Epidemiologie generală ediția a-II-a, Litografia UMF Tg. Mureș, 2010
8. Sabău M., Golea C., Bacărea V.: Epidemiologie generală, Litografia UMF Tg. Mureș, 2005
9. Sabău M., Golea C., Bacărea V., Epidemiologie specială-Boli netransmisibile, Litografia UMF Tg.Mureș, 2005

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Epidemiological surveillance for communicable diseases. Epidemiological rates. Epidemiological investigation. Field project for epidemiological investigation and intervention. Epidemiological analysis. Epidemiological assessment.	Oral and multimedia presentation	Theoretical and practical presentations	Immunization, Tuberculosis, Sexually transmitted diseases Infectious disease of childhood	2
2	Risk assessment, practical use of data obtained in epidemiological studies. Risk rates (OR, RR, RA, HHR) . Practical exercise.	Oral and multimedia presentation	Theoretical and practical presentations	Malformations of cardiovascular system Drug effect on fetus	2
3	Epidemiological studies. Sampling, Practical use of different types of epidemiological studies (transversal, case-control, cohort, clinical randomized trial,). Practical exercise	Oral and multimedia presentation	Theoretical and practical presentations	Carcinoma of the cervix/uterus/ ovary, Malformations of cardiovascular system	2
4	Screening. Types of screening testing. Practical criteria for screening. Performance assessment. Practical exercise.	Oral and multimedia presentation	Theoretical and practical presentations	Carcinoma of the cervix/uterus/ ovary, Malformations of cardiovascular system	2
5	Intervention methods for communicable diseases. Case definition, diagnostic, isolation, case report. Epidemiological inquiry. Types of inquiries, objectives, stages. Practical exercise inquiry report for different types of diseases and epidemiological circumstances	Oral and multimedia presentation	Theoretical and practical presentations	Immunization, Tuberculosis Infectious disease of childhood	2
6	Decontamination and sterilization: decontamination and sterilization methods, procedures and products. Prevention of professional exposure of health-care workers: standard precautions, protective equipment, hand hygiene, waste materials management, management of professional exposure cases	Oral and multimedia presentation	Theoretical and practical presentations	Pre-operative care, post operative care, Transfusion of blood products	2
7	Elements of immunoprevention: vaccination, vaccines, National Vaccination Program, active immunization, passive immunisation	Oral and multimedia presentation	Theoretical and practical presentations	Immunization, Malaria, Meningitis	2

Bibliography

Mandatory bibliography:

1. Ordin M.S. 1101/2016 privind aprobarea Normelor de supraveghere, prevenire și control al IAAM in unitatile sanitare.
2. OMS 1761/2021 pentru aprobarea Normelor tehnice privind curățarea, dezinfectia și sterilizarea în unitățile sanitare publice și private.
3. OMS 1226/2012 pentru aprobarea Normelor tehnice privind gestionarea deșeurilor rezultate din activități medicale și a Metodologiei de culegere a datelor pentru baza națională de date privind deșeurile rezultate din activități medicale.

Support bibliography:

1. Bonita R, Beaglehole R, Kjellström T. Basic epidemiology, 2nd edition. World Health Organization, 2006. Available online: http://apps.who.int/iris/bitstream/10665/43541/1/9241547073_eng.pdf
2. Gordis L. Epidemiology, 5th edition. 2014. ISBN 9781455742516. Available online: <https://studentconsult.inkling.com/store/book/gordis-epidemiology-5th/>
3. Last J.M.: A Dictionary of Epidemiology, 4th ed., Oxford University Press, New York, 2000
4. Merrill R. M.: Principles of Epidemiology, Workbook, Jones&Bartlett Learning, Sudbury, 2011
5. Ivan A., Azoicăi D., Grigorescu R.: Epidemiologie generală și specială - Ediție bilingvă, Ed. Polirom, Iași, 1996, (English version: GENERAL AND SPECIAL EPIDEMIOLOGY, p 103-197
6. Sabău M., Voidăzan S, Golea C., : Epidemiologie generală ediția a-II-a, Litografia UMF Tg. Mureș, 2010
7. Sabău M., Golea C., Bacărea V.: Epidemiologie generală, Litografia UMF Tg. Mureș, 2005
8. Sabău M., Golea C., Bacărea V., Epidemiologie specială-Boli netransmisibile, Litografia UMF Tg. Mureș, 2005
9. Bocșan I.S.: Epidemiologie practică pentru medicii de familie, editura Medicală Universitară „Iuliu Hațieganu”, Cluj-Napoca, 1999

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

yes

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL session attendance	multiple choice test	15
- practical activities	practical exercise attendance	practical test	15
Final evaluation			
- theoretical final exam	-cunoașterea noțiunilor teoretice referitoare la activitatea care urmează a fi efectuată	multiple choice test Evaluarea scrisă-test grilă cu 40 de întrebări - max. 25% tip complement simplu, restul de tip complement multiplu, din tematica de curs. multiple choice test	35
- practical final exam	-cunoașterea materialului bibliografic -înțelegerea conceptelor de bază și integrarea lor	practical test Test practic grilă cu 40 de întrebări - max. 25% tip complement simplu, restul de tip complement multiplu, din tematica de lucrări practice. practical test	35
Minimal performance standards: - cunoașterea noțiunilor teoretice privind procesul epidemiologic al bolilor transmisibile și netransmisibile, a noțiunilor teoretice privind epidemiologia, supravegherea și controlul unor boli transmisibile și netransmisibile - cunoașterea noțiunilor practice privind aprecierea și evaluarea stării de sănătate a populației sau a unor grupe populationale - cunoașterea noțiunilor practice necesare în cazul intervențiilor profilactice (imunizări, decontaminări profilactice, etc.) -cunoașterea măsurilor de intervenție în focare de boală (anchete, decontaminări, imunizari, chimioprofilaxie, etc.). - cunoștințe pentru nota 5: realizarea a 50% din punctajul maxim posibil al grilei; - cunoștințe pentru nota 10: realizarea a 90% din punctajul maxim posibil al grilei.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Golea Cristina

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dento-alveolar surgery			
2.2 Course coordinator: Șef I dr Coșarcă Adina-Simona			
2.3 Practical activities coordinator(s): Sef. Lucrari Dr. Cosarca Adina, Sef. Lucrari Dr. Petrovan Cecilia, Sef. Lucrari Dr. Iacob Alina, Sef. Lucrari Dr.Szava Daniel, Asist Dr. Bereczki Temistocle Despina, Asist Drd. GoluVlad, Asist Drd. Veres Szidonia, Asist Drd. Grigore Vlad			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 22		
- supplemental documentation at the library, from specialized information portals and in the field: 22		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 21		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Description of the concepts, theories and fundamental notions regarding the appearance of dental pathology, signs and symptoms characteristic of each disease, useful for guiding clinical diagnosis. Identification of resuscitation maneuvers in first aid conditions. Correct interpretation of clinical and paraclinical signs, symptoms to develop the diagnosis. Use of therapeutic resources to formulate the treatment plan as well as correct interpretation of clinical and paraclinical data. Application of acquired clinical techniques and knowledge to be integrated with paraclinic data. Developing and applying a treatment plan in accordance with the stage of the disease and its individualized adaptation to the patient's particularities. Correct examination of the patient, establishing the indications for tooth extraction and carrying them out.

Prevention of accidents and post-extractive complications, respectively their treatment, if they have occurred. Appropriate establishment of indications of surgery to aid endodontic treatment; indications of preprosthetic surgical treatment.
6.2 transversal competencies: Identification of objectives to be achieved, available resources, conditions for their completion, working stages, working times, related risks. Identifying roles and responsibilities in a multidisciplinary team and applying techniques of relationship and effective work within the team and in relation to the patient. Efficient use of communication resources and assisted training. Compliance with the rules of asepsis and antisepsis, occupational and medical protection. Effective teamwork.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Acquisition of extraction techniques in different dental groups.
7.2 Specific objectives: Familiarize students with the extraction tool. Acquisition of extraction techniques at different dental groups, accidents and complications of tooth extraction and their treatment. Acquiring theoretical knowledge from surgery dental-alveolar (endodontic and preprosthetic surgery).

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Examination of the patient in OMF surgery. Clinical examination. Paraclinical examinations	oral presentation + multimedia, discussions	-	-	2
2	Tooth extraction. Indications, contraindications of extraction of temporary and permanent teeth	oral presentation + multimedia, discussions	-	-	2
3	Tooth extraction. Tooth extraction technique with extraction forceps	oral presentation + multimedia, discussions	-	-	2
4	Tooth extraction with forceps, by groups of teeth	oral presentation + multimedia, discussions	-	-	2
5	Extraction of roots with forceps; elevators; by separating the roots	oral presentation + multimedia, discussions	-	-	2
6	Tooth extraction by alveolotomy	oral presentation + multimedia, discussions	-	-	2
7	Post-extractional healing	oral presentation + multimedia, discussions	-	-	2
8	Local accidents of dental extraction	oral presentation + multimedia, discussions	-	-	2
9	Local complications of tooth extraction	oral presentation + multimedia, discussions	-	-	2
10	Endodontic surgery. Transmaxillary drainage	oral presentation + multimedia, discussions	-	-	2
11	Endodontic surgery. Apical resection. Radicular amputation	oral presentation + multimedia, discussions	-	-	2
12	Dental replanting. Dental transplanting	oral presentation + multimedia, discussions	-	-	2
13	Proprosthetic surgery. Restoration of the deficiencies of the soft parts of the prosthetic field	oral presentation + multimedia, discussions	-	-	2
14	Proprosthetic surgery. Restoration of bone deficiencies of the prosthetic field	oral presentation + multimedia, discussions	-	-	2

Bibliography

Oral and maxillo facial surgery, Sumit Sanghai, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD
Oral surgery, Fragiskos D, 2007

8.2 Content of workout, semester 2

No	Subject	Teaching methods	Observations	ICS	Hours

				correlation	
1	Revision of the dento-maxillary anatomy and a local and loco-regional anesthesia techniques necessary to perform dental extractions	Multimedia presentation, teaching materials, discussions	-	-	4
2	Examination of the patient, indications and contraindications of dental extraction. Familiarity with the extraction tool	Multimedia presentation, teaching materials, discussions	-	-	4
3	Preparation of the patient, doctor and a instruments for performing tooth extraction. Extractions by groups of teeth	Multimedia presentation, teaching materials, discussions	-	-	4
4	Accidents and complications of tooth extraction and their treatment	Multimedia presentation, teaching materials, discussions	-	-	4
5	Performing practical extractions (in patients)	CBL	CBL1	-	4
6	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
7	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
8	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
9	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
10	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
11	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
12	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
13	Performing practical extractions (in patients)	Supervision of extractions in patients	-	-	4
14	Performing practical extractions (in patients)	CBL	CBL2	-	4
Bibliography Oral Surgery Fragiskos 2007					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

At the end of the fourth year, students should be able to diagnose dental-alveolar conditions that indicate tooth extraction or conservative surgical treatment, perform uncomplicated dental extractions, prevent, recognize and treat accidents and complications that occurred during extractions; redirect patients to the chiryr. If the extraction could not be completed, there have been accidents and complications that it cannot treat. SA recommend surgical methods to help with prosthetic therapy if this is necessary. Diagnose clinical situations that indicate and allow replanting, dental transplants.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	according to the specific objectives of the disciplines	-	0
- practical activities	according to the specific objectives of the disciplines	CBL	30
Final evaluation			
- theoretical final exam	according to the specific objectives of the disciplines	written exam multiple choise	50
- practical final exam	according to the specific objectives of the disciplines	written examination	20
Minimal performance standards: Conducting anamnesis, complete and correct clinical examination and basic diagnostic procedures, requesting appropriate complementary examinations, formulating a correct diagnosis. Developing an individualized therapeutic plan and performing basic therapeutic procedures, including those aimed at qualified first aid.			

Be able to perform uncomplicated dental extractions, prevent, recognize and treat accidents and complications that occur when performing dental extractions.

Practical activity note (dental extractions) – minimum 5; note < 5 = failed examination;

0 extractions – failed examination

1 extraction – note 5

2 extracts – note 6

3 extracts – note 7

4 extracts – note 8

5 extracts – note 9

6 extracts – note 10

Final theoretical exam note – minimum 5; note < 5 = failed exam;

Practical final exam note – minimum 5; note < 5 = failed exam;

Final note – minimum 5; note < 5 = failed exam.

Mandatory attendance at LP; 20% unmotivated absences are allowed (8 hours lp = 2 LPs); >20% unmotivated absences or unrecovered absences = failed exam. Absences to LP can only be recovered during the school year or summer practice, depending on the schedule of the LP's tutor.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

Tooth extractions

13. Appointment timetable (for students)

Şef I dr Coşarcă Adina-Simona	15 minutes after each course

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Infectious diseases			
2.2 Course coordinator: Șef I dr Sincu-Bodnar Nina-Ioana			
2.3 Practical activities coordinator(s): Șef I dr Bodnar Nina-Ioana			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: None required
4.2 competency: None required

5. Conditions

5.1 for lectures: on site
5.2 for practical activities: on site

6. Specific competencies acquired

6.1 professional competencies: The course is addressed to students in the 4th year of Dental Medicine. At the end of the course, the students will acquire general knowledge about infectious diseases, will know principles of diagnosis and treatment in parenteral, nosocomial infections, infections in the oro-cervical region, systemic infections, infectious diseases with cardinal symptoms in the oral cavity, as well as peculiar features of infections in immunocompromised hosts.
6.2 transversal competencies: Integration of assimilated knowledge with the purpose of recognition and diagnosis of an infectious disease, curative and prophylactic treatment measures in emerging and reemerging infectious diseases with an impact on population health. Students should be able to manage the patients with infectious nosocomial pathology, those suffering from infectious diseases manifested in the oral cavity and with systemic repercussions or patients with transmissible

infectious diseases posing epidemiologic risk.

Acquiring proper communication skills towards patients with infectious diseases, and integration into multidisciplinary teams.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Knowledge regarding communicable and non-communicable infectious diseases; identification, diagnosis, treatment and preventive measures in infectious diseases.

7.2 Specific objectives:

Identifying the nosocomial character of an infection, the application and the explanation of the preventive measures in nosocomial infections. Knowing how the hepatitis viruses A, B, C, D, E, as well as HIV, are transmitted. Prescribing and interpreting virological examinations in infections with these viruses. Knowing the principles of prophylaxis and treatment. Information and counseling on the prevention and parenteral transmission of HIV. Knowledge about detecting an HIV infection in the dentist's office: specific manifestations in the oral cavity. Knowledge of the terms: systemic inflammatory response syndrome, bacteraemia, sepsis, septic shock. Emergency identification and management planning of sepsis. The role of dental focal infections in generating systemic cardiovascular and CNS manifestations and their management. Principles of etiological treatment in infectious diseases; the main classes of antimicrobial agents.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Infectious process. Classification of infectious diseases. Emerging and re-emerging infections. Particularities of prophylaxis and etiological therapy in odontogenic infections.	oral + multimedia presentation	None	PUO-pyrexia of unknown origin. Immunisation	2
2	Oro-cervical bacterial infections	oral + multimedia presentation	None	Oral disorders. Dysphagia	2
3	Oro-cervical viral and fungal infections	oral + multimedia presentation	None	Infectious diseases of childhood. Candidiasis	2
4	Systemic bacterial infections with oro-pharyngeal entry gate.	oral + multimedia presentation. MCQ assessing the knowledge acquired from the previous lectures	None	Septicaemia	2
5	HIV/AIDS infection. Oropharyngeal and facial manifestation of HIV infection.	oral + multimedia presentation	None	HIV	2
6	Acute viral hepatitis with parenteral and enteral transmission.	oral + multimedia presentation	None	Acute liver disease. Hepatomegaly. Jaundice.	2
7	Intracranial hypertension syndrome of infectious origin. Acute meningitis. Acute encephalitis.	oral + multimedia presentation	None	Meningitis. Headache. Raised intracranial pressure.	2

Bibliography

1. Georgescu AM, Tilea B, Chiriac C (sub red): Infectious diseases. University Press Tirgu Mures publishing house, 2014, 258 pg, ISBN 978-973-169-318-7
2. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020
3. Course notes

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Streptococcal infections – clinical manifestations.	case report, images from our clinical practice	None	Infectious diseases of childhood. Oral disorders. Dysphagia	1

2	Herpes-virus infections.	case report, images from our clinical practice	None	Bullous/vesicular skin eruption	1
3	Mumps - clinical manifestations and differential diagnosis challenges	case report, images from our clinical practice	None	Parotid swelling	1
4	Respiratory viral infections. Influenza. SARS-CoV-2 infection.	case report, images from our clinical practice	None	Respiratory tract infection	1
5	Diagnosis of acute pharyngitis.	case report, images from our clinical practice	None	Oral disorders	2
6	Acute viral hepatitis.	case report, images from our clinical practice	None	Acute liver disease. Hepatomegaly. Jaundice.	2
7	HIV/AIDS infection. Clinical aspects of oral cavity diseases in HIV/AIDS infections.	CBL	None	HIV	2
8	Antibiotic therapy in dental practice.	case report, images from our clinical practice	None	Drug reactions	1
9	Post-exposure prophylaxis	case report, images from our clinical practice	None	Immunisation	1
10	Nosocomial infections.	case report, images from our clinical practice	None	Acute renal disease	1
11	Infections with digestive entry gate.	case report, images from our clinical practice	None	Loose stools	1

Bibliography

1. Georgescu AM, Tilea B, Chiriac C (sub red): Infectious diseases. University Press Tirgu Mures publishing house, 2014, 258 pg, ISBN 978-973-169-318-7
2. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020
3. Course notes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

- demographic and climatic changes help maintain infectious diseases up-to-date
- the appearance of emerging and reemergent diseases with particular epidemiological impact
- alarming increase in microbial resistance to antibiotics
- particularities of infectious diseases in immunocompromised hosts.
- the impact of decisions upon infectious pathology on the general well-being of the population.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Theoretical knowledge assessment (information acquired from lectures and individual study)	MCQ (multiple question test)	20
- practical activities	The ability to correctly manage a clinical case from the curriculum	CBL	10
Final evaluation			
- theoretical final exam	Acquiring theoretical knowledge regarding clinical findings, positive and differential diagnosis, therapeutic, curative and prophylactic measures regarding infectious diseases.	MCQ test – multiple choice questions	60
- practical final exam	The ability to identify the main signs and symptoms of the studied pathologies, in order to establish the investigation and treatment plan.	MCQ test – multiple choice questions	10
Minimal performance standards:			
Minimum Performance Standard:			
- recognizing infectious diseases			
- managing an infectious disease in the dental practice			

Minimum grade for passing the theoretical and practical exam, as well as the evaluations during the module is 5. No absences are allowed at the practical activities.

CLINICAL ABILITIES

- to perform the medical history of the patient
- to perform the physical examination
- hierarchical representation of differential diagnosis lists
- enumerating and supporting the elements of positive diagnosis for the clinical conditions included in curriculum

TECHNICAL ABILITIES:

- collecting pharyngeal swab

PARACLINICAL ABILITIES:

- CBC results: interpretation
- coagulation test results: interpretation
- peripheral blood smear: interpretation
- urinalysis: interpretation
- plasma biochemistry: interpretation
- biochemical results from CSF: interpretation
- acid base balance: interpretation
- interpretation of different cultures and antibiotic sensitivity tests (blood culture, CSF, other bodily fluids)
- interpretation of serological tests
- parasite detection tests - result interpretation

THERAPEUTIC RECOMMENDATIONS

- identification of therapeutical objectives and priorities in a particular case
- to perform a correct therapeutical prescription for patients from different categories (suffering from infectious disease pathology in the oro-cervical region)
- selecting the right route of administration and optimal therapeutic form of medication in a specific case

PROPHYLAXIS

- Educating/counseling the patient for behavioral risk factors and promoting a healthy lifestyle
- Primary, secondary and tertiary prevention plan in a particular situation

COMMUNICATION

- To complete the medical history, physical examination, and medical documents of a patient
- Explaining the diagnostic and therapeutic procedures and obtaining the patient's consent
- To note the patient's daily evolution
- formulating the recommendations at discharge in verbal and written form
- oral case presentation of an infectious disease pathology in the oro-cervical region

MUST SEEN CLINICAL SITUATION LIST:

1. Oropharyngeal streptococcal infections
2. Oropharyngeal viral infections
3. Mumps
4. Influenza
5. Acute viral hepatitis
6. Oral manifestations in HIV infection
7. Acute meningitis
8. Encephalitis
9. Sepsis with oropharyngeal portal of entry

11. Must seen clinical situation list

1. Oropharyngeal streptococcal infections
2. Oropharyngeal viral infections
3. Mumps
4. Influenza
5. Acute viral hepatitis
6. Oral manifestations in HIV infection
7. Acute meningitis
8. Encephalitis
9. Sepsis with oropharyngeal portal of entry

12. Clinical / practical abilities

CLINICAL ABILITIES

- to take the patient's medical history 2.1
- to perform the physical examination 2.2
- hierarchical representation of differential diagnosis lists 2.10
- enumerating and supporting the elements of positive diagnosis included in the curriculum 2.11

TECHNICAL ABILITIES:

- collecting pharyngeal swab 3.8

PARACLINICAL ABILITIES:

- CBC - written results: interpretation 4.3
- coagulation test - written results: interpretation 4.4
- peripheral blood smear - written results: interpretation 4.6
- urinalysis – written results: interpretation 4.8
- plasma biochemistry – written results: interpretation 4.10
- biochemical tests from CSF – written results: interpretation 4.11
- acid base balance – written results: interpretation 4.12
- various cultures and antibiotic sensitivity tests (blood culture, CSF, other bodily fluids) – written results: interpretation 4.15
- serological tests – written results: interpretation 4.19
- parasite detection tests - written results: interpretation 4.21

THERAPEUTIC RECOMMENDATIONS

- identification of therapeutical objectives and priorities in a particular clinical case 6.1
- to perform a correct therapeutical prescription for various categories of patients (with infectious disease pathology in the oro-cervical region) 6.2
- selecting the right route of administering the treatment and the optimal therapeutic form of the medication in a particular clinical case 6.5

PROPHYLAXIS

- to educate / counsel the patient regarding behavior/lifestyle risk factors and how to alter these and promote a healthy lifestyle 7.1- 0
- primary, secondary and tertiary prevention plan in a particular clinical situation 7.6- 1

COMMUNICATION

- To complete the medical history and physical examination in the patient's medical documents 8.1- 1
- to explain the diagnostic and therapeutic procedures and to obtain the patient's informed consent 8.2- 1
- To note the patient's daily evolution 8.3- 3
- to formulate the recommendations at discharge in verbal and written form 8.9- 1
- oral case presentation of a case of infectious disease pathology in the oro-cervical region 8.13- 1

13. Appointment timetable (for students)

Şef I dr Sincu-Bodnar Nina-Ioana

Luni ora 14:00-16:00

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Ophthalmology			
2.2 Course coordinator: Șef I dr Vultur Florina			
2.3 Practical activities coordinator(s):			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
x
4.2 competency:
x

5. Conditions

5.1 for lectures:
x
5.2 for practical activities:
x

6. Specific competencies acquired

6.1 professional competencies:
- C1 Identification of eye diseases, establishing a presumptive diagnosis, recognition of ophthalmic emergencies
- C2 Knowing the therapeutic plan of diseases with positive diagnosis
- C3 Prophylaxis measures for avoiding the illness of congener eye or of the community to which it belongs the patient
- C4 Guidance of patients at risk to specialized ophthalmologic screening units
- C5 The ability to participate to team research of ophthalmologic issues
6.2 transversal competencies:
Multidisciplinary team work, understanding the objective of the activity, the assignment of specific duties to each specialty, the sequencing of work, verbal-written communication skills, linguistic skills to develop and present projects and to communicate with the patient as well as with team members.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Acquisition of basic knowledge of general ophthalmology
7.2 Specific objectives: 1. Identify ophthalmic emergencies, drawing up an investigational plan for establishing finally the diagnostic of certainty by the eye specialist physician. 2. Positive diagnosis of uncomplicated eyelid or conjunctival diseases, development of a therapeutic drug plan, proper monitoring of the disease, recognition of unfavorable evolution and referring the patient to the ophthalmologist. 3. Appropriate monitoring of the therapeutic plan initiated by ophthalmologist. 4. Initiating preventive measures within a community when a contagious eye disease occurs. 5. Prophylaxis measures for avoiding the illness of the congener eye. 6. Referral to specialized screening of patients at risk for eye disease.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Orbital and lachrymal sistem pathology	Oral presentation and PowerPoint	x	oedema, orbital swelling, brain tumor, red eye, visual impairment, trauma to head, thyroid disorders, inflammatory arthritis,	2
2	Eyelids diseases	Oral presentation and PowerPoint	x	oedema, allergic disorders, lymphoproliferative disorders, cranial nerve disorders, skin cancer, skin infections, skin ulcerations	2
3	Pathology of the conjunctiva	Oral presentation and PowerPoint	x	oedema, allergic disorders, inflammatory arthritis, lymphoproliferative disorders, red eye	2
4	Pathology of the cornea	Oral presentation and PowerPoint	x	brain tumor, red eye, visual impairment, visual loss, cranial nerve disorders	2
5	Lens disorders	Oral presentation and PowerPoint	TBL	agression/violence, visual impairment, visual loss, diabetes mellitus, trauma to head	2
6	Glaucoma	Oral presentation and PowerPoint	x	headache, red eye, visual impairment, visual loss, diabetes mellitus, glaucoma	2
7	Red eye, ophthalmological emergencies	Oral presentation and PowerPoint	x	agression/violence, falls, oedema, allergic disorders, cerebrovascular disease, red eye, visual impairment, visual loss, glaucoma, hypertension, poisoning, septicaemia	2

Bibliography

Mandatory bibliography:

Kanski's Clinical Ophthalmology, 9th Edition., author John F. Salmon, publisher Elsevier, 2019, ISBN 9780702077111

Karin Horvath, Florina Vultur, Gh. Muhlfay: Ophthalmology-Lecture notes, Editura University Press, UMF TgMures, 2014

Support bibliography:

Jack J. Kanski, Clinical Ophthalmology: A Systematic Approach, 7th Edition, 2011

American Academy of Ophthalmology, Basic and Clinical Science Course, 2010-2011

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Presenting ophthalmological office, equipment and medicinal substances used in ophthalmology. Case presentation from orbital pathology	Practical demonstrations, case presentation	x	oedema, orbital swelling, brain tumor, inflammatory arthritis, red eye, visual impairment, thyroid disorders, trauma to head	2
2	Examination of the eyelids, demonstrations, case presentation	Practical demonstrations, case presentation	x	oedema, allergic disorders, lymphoproliferative disorders, cranial nerve disorders, skin cancer, skin infections, skin ulcerations	2
3	Examination of the conjunctiva, learning examination maneuvers, therapeutic maneuvers (subconjunctival injection etc), case presentation	Practical demonstrations, case presentation	x	oedema, allergic disorders, inflammatory arthritis, lymphoproliferative disorders, red eye	2
4	Slit lamp examination of the cornea, case presentations, practical demonstrations (corneal foreign body removal, etc.)	Practical demonstrations, case presentation	x	brain tumor, red eye, visual impairment, visual loss, cranial nerve disorders	2
5	Cataract (examination, diagnosis, surgery)	Practical demonstrations, case presentation	CBL	agression/violence, visual impairment, visual loss, diabetes mellitus, trauma to head	2
6	Ocular tension, tonometry, computed perimetry, examination of glaucomatous patient	Practical demonstrations, case presentation	x	headache, red eye, visual impairment, visual loss, diabetes mellitus, glaucoma	2
7	Examination of the patient with ocular trauma, interdisciplinary investigations, tests, laboratory analysis, preparation for surgery	Practical demonstrations, case presentation	x	agression/violence, falls, headache, oedema, squint, visual impairment, visual loss, trauma to head	2

Bibliography

Mandatory bibliography:

Kanski's Clinical Ophthalmology, 9th Edition., author John F. Salmon, publisher Elsevier, 2019, ISBN 9780702077111

Karin Horvath, Florina Vultur, Gh. Muhlfay: Ophthalmology-Lecture notes, Editura University Press, UMF Tgmures, 2014

Support bibliography:

Jack J. Kanski, Clinical Ophthalmology: A Systematic Approach, 7th Edition, 2011

American Academy of Ophthalmology, Basic and Clinical Science Course, 2010-2011

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Acquired ophthalmologic knowledges will serve to adequate recognition of ophthalmic emergencies, the presumptive diagnosis and proper guidance of the patient to appropriate specialist.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	Written evaluation	10
- practical activities	CBL	Oral evaluation	20
Final evaluation			
- theoretical final exam	Knowledge of the material from theoretical lectures and practical activities	Written evaluation	70
- practical final exam	x	x	0
Minimal performance standards:			
Knowing of minimum 50% from the presented subjects.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Vultur Florina	

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Otorhinolaryngology			
2.2 Course coordinator: Conf dr Neagoș Adriana			
2.3 Practical activities coordinator(s):			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 3		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 3		
- tutorial activities: 3		
- examinations: 3		
- other activities: 3		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: According Rules
4.2 competency: According Rules

5. Conditions

5.1 for lectures: Rooms equipped with videoprojector and PC,
5.2 for practical activities: Treatment rooms as well as demnstration room in the ENT Clinic

6. Specific competencies acquired

6.1 professional competencies: Identify objectives to be achieved, resources available, their closing,conditions, stages of work, working
6.2 transversal competencies: time,and deadlines - Identify roles and responsibilities within a multidisciplinary team and application techniques and effective work relationships within the team and the relationship with the patient - Awareness of the need for continuous training - Familiarity with the use of medical information systems - Design, Layout and support in a Romanian specialty papers on a current topic in the field, using different information sources and tools

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: establish the clinical diagnosis, correct clinical examination, clinical assessment of the patient with
7.2 Specific objectives: Training students in ENT pathology problems • Harmonization topics in accordance with the requirements in this field in the world for effective cooperation with leading centers in the field • Encourage the research initiatives and providing support for their achievement • Deepening diseases that are considered highly topical issues (laryngeal tumors, allergic pathology, congenital deafness, respiratory pathology sleep • Training students to use existing diagnostic and therapeutic algorithms

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	.Knowledge of anatomy, physiology and diagnostical methods of acustico-vestibular system a. Auditory System anatomy b. Auditory System physiology c. Diagnostical Methods of auditory and vestibular function	Course with ppt presentation	Using of interactive teching methods, discussions with students as well as ppt presentations	Deafness, Dizziness, Meningitis, Otitis media, nerves disorders	2
2	Acustico-vestibular System inflammatory Pathology a. External otitis b. Otitis media without effusion c. Suppurate Otitis media d. Complications of Otitis media e. Hearing loss classification f. Perpheral Ffacial Nerve Phalsy	Course with ppt presentation and TBL	Using of interactive teching methods, discussions with students as well as ppt presentations	Deafness, Dizziness, Vomiting, Otitis Media, Nerve disorders	2
3	Nose and paranasal sinus anatomy, physiology, as well as olphactoy and respiratory function investigations methods a. Nose and Paranasal sinus anatomy b. Nasal physiology	Course with ppt presentation	Using of interactive teching methods, discussions with students as well as ppt presentations	Oedema, Headache	2
4	4.Inflamatory and tumoral nose and paranasal sinus Pathology a. Acute and Chronical Sinusities b. Nasal and sinuses tumors	Course with ppt presentation and verification of knowledge in TBL System	Using of interactive teching methods, discussions with students as well as ppt presentations	Preoperative Care, postoperative care, Tuberculosis, Headach, Orbita inflammation	2
5	5.Nose Breathing disorders and allergies in ENT a. Nose breathing disorders b. Sleep breathing disorders,	Course with ppt presentation	Using of interactive teching methods, discussions with students as well as ppt	Oedema, Sleep disorders. Fatigue, Preoperative and Postoperative care,	2

	Obstructive Sleep Apnea c. Allergic Rhinitis and Allergic Rhinosinusitis		presentations	Allergic disorders, Sudden death	
6	6 Pharyngeal, Esophageal and Laryngeal Anatomy , physiology; Esophageal and tracheo-bronchial foreign bodies a. Pharyngeal Anatomy and Physiology b. Laryngeal Anatomy and Physiology c. Esophageal and Pharyngeal foreign bodies d. Tracheo- bronchial foreign bodies	Course with ppt presentation	Using of interactive teaching methods, discussions with students as well as ppt presentations	Cyanosis, Dysphagia, Oedema Palpitation Preoperative Care Postoperative Care	2
7	Pharyngeal, Laryngeal and Esophageal Pathology a. Pharyngeal Inflammatory Pathology b. Laryngeal Inflammatory Pathology c. Tumoral Pharyngeal pathology d. Laryngeal Tumoral Pathology	Course with ppt presentation	Using of interactive teaching methods, discussions with students as well as ppt presentations	Cyanosis, Dysphagia, Vomiting, Stridor, Palpitations, Hyperventilation, Preoperative Care, Postoperative Care	2
Bibliography 1. Lata Ganti, Javier Ravario, David Lebovitz- STEP-UP TO USMLE STEP 2 CK 5 edition- 2. Adam Feather, David Randall, Mona Waterhouse, CLINICAL MEDICINE-10 EDITION 3. Neagos Adriana ENT Course for students 4. Manuel Bernal Spechelsen- Otorinolaringology, Head and Neck Surgery- European Manual					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Inspection and Palpation in ENT, specific instruments using for ENT Examination	Ppt presentation and CBL	Making specific maneuvers	Nerves disorders, stridor	2
2	Modern Methods of ENT Examination- Otoscopy, nasal endoscopy, laryngeal endoscopy, flexible pharyngoscopy Rhinoscopy, Laryngoscopy	PPT Presentation and CBL	Clinical Case for doing otoscopy and nasal endoscopy	Oedema , Sleep disorders	2
3	Hearing loss evaluation- Audiometry	Ppt presentation and CBL	Ppt presentation	Hearing loss	2
4	Tracheostomy	Ppt presentation	Presentation of patients with tracheostomy	Stridor, Oedema, Chest Traumas, Abdominal traumas	2
5	Esophagoscopy and bronchoscopy	Ppt presentation	Theoretical presentation of pathology where it is indicated to perform this maneuver; patients presentation, if they exist in the Hospital	Dysphagia, Stridor, Nerves disorders, Esophageal Carcinoma, Bronchial Carcinoma	2
6	Imaging in ENT	Ppt presentation and CBL	Radiography, CT and MRI Interpretation clinical cases	Oedema , Sleep disorders	2
7	Anterior Nasal packing	Ppt presentation and CBL	Doing Maneuvre	Headach, Hemoptisia	2

Bibliography
1. Lata Ganti, Javier Ravario, David Lebovitz- STEP-UP TO USMLE STEP 2 CK 5 edition-
2. Adam Feather, David Randall, Mona Waterhouse, CLINICAL MEDICINE-10 EDITION
3. Neagos Adriana- Practical Activity guide for students

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Possession of a minimum standard ENT specific knowledge for the proper conduct of the medical activity

- Knowledge of classical diagnostic methods and surgical techniques,
- Acquisition of the ability to make a correct diagnosis a full routine ENT diseases and frequently encountered in clinical practice
- Acquiring the ability to use specific instruments ENT, so the classic as well as best-type endoscopes, flexible nasopharyngoscope

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Mandatory presence to the course	Questions, and making manœuvres	15
- practical activities	Mandatory presence to the course and open videocamera for the on-line Courses	Questions during the course	15
Final evaluation			
- theoretical final exam	test with 60 questions of which 25% with a correct answer and 75% with 2 correct answers	Test with 60 questions With one and two correct answers. Respondent type will be corrected for the questions with 2 correct answers	60
- practical final exam	Evaluation of theoretical and practical knowledges from the course book	Oral examination, with questions	10
Minimal performance standards:			
• For the student evaluation during the semester, it is mandatory the student participation at the course and practical activity, as well as on-line and onsite system. • For admission to the final exam it will be necessary the student participation on 6 from 7 on-line courses, and 6 from 7 Practical Activity. • To the semester evaluation, the student need to have minimum knowledges, and to have good answer for 50% from questions. • For Admission to the final exam, the student have to know all manœuvres- otoscopy, anterior rhinoscopy, buccopharyngoscopy, laryngoscopy; to know the instruments, and to know the devices that are used in the ENT Clinic, as well as audiometer			

11. Must seen clinical situation list

• MUST SEEN CLINICAL SITUATIONS LIST

- Ear wax – Ear cleaning
- Acute Tonsillitis Diagnosis
- Dental Sinusitis Diagnosis
- How to care the patient with nasal bleeding

12. Clinical / practical abilities

• For the final pass it is mandatory to accomplish the following conditions:

- 100% practical exam Pass
- For the theoretical exam 55% from answers have to be correct

13. Appointment timetable (for students)

Conf dr Neagoş Adriana

Head of department

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M3
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Neurology			
2.2 Course coordinator: Conf dr Bajko Zoltan			
2.3 Practical activities coordinator(s): Mosora Oana			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 5		
- supplemental documentation at the library, from specialized information portals and in the field: 5		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 5		
- tutorial activities: 5		
- examinations: 1		
- other activities: 1		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
.
4.2 competency:
.

5. Conditions

5.1 for lectures:
.
5.2 for practical activities:
.

6. Specific competencies acquired

6.1 professional competencies:
-Fixing and deepening of basic concepts related to neuroanatomy, the neurological semiology, neurology with which the student will face during exercise profession.
-Acquiring the necessary knowledge on the causes, investigations, the neurological manifestations of these disease, especially diagnosis and treatment. Some patients in addition to the underlying disease, usually shows heart problems, lung problems, liver problems, kidney problems, diabetes etc. which may cause the neurological disease.
-Filling the whole range of medical knowledge that are required to be known and applied

6.2 transversal competencies:

- Identifying roles and responsibilities within a multidisciplinary team and applying of effective working techniques in team framework and in relationship with the patient..
- Effective use of information sources and communication resources and training assistance (portals, Internet, specialized software, data bases, online courses, etc.). both in romanian and in a foreign language.
- Project working under coordination to solve specific issues with accurate assessment of workload, of available resources and time required to complete with application of the rules of conduct and professional ethics in the field, and health and safety at work.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

knowledge of neurological semiology and pathology

7.2 Specific objectives:

Acquiring the necessary knowledge on the causes, investigations, neurological manifestations and especially the recovery. In the case of a patient with additional heart problems, lung problems, liver problems, kidney problems, diabetes etc. (which are involved in the etiology of the neurological disease), completing the full range of care and medical knowledge that is required to be known and applied.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in neurology. Upper motor neuron syndrome	Oral lecture, drawing, video projection. Cases presentation	.	Cerebral palsy, cerebrovascular disorders, movement disorders, multiple sclerosis	1
2	Lower motor neuron syndrome, pathology of the peripheral nervous system (ALS, Polineuropathies, Lumbar disc herniation)	CBL, Oral lecture, drawing, video projection. Cases presentation.	.	peripheral nerve disorders, movement disorders, cranial nerve disorders	1
3	Senzitive syndromes, syringomyelia, neurological complications of syphilis	Oral lecture, drawing, video projection. Cases presentation	.	peripheral nerve disorders	1
4	Spinal cord syndromes, vestibular syndromes, cerebellar syndromes	Oral lecture, drawing, video projection. Cases presentation	.	spinal cord malformations, dizziness, cerebrovascular disorders, vomiting	1
5	Brainstem syndromes, headache, cranial neuralgias	Oral lecture, drawing, video projection. Cases presentation	.	headache, migraine, peripheral nerve disorders	1
6	Extrapiramidal syndromes, Parkinson's disease, Wilson disease	Oral lecture, drawing, video projection. Cases presentation	.	movement disorders, cromosomal disorders, hereditary metabolic disorders	1
7	Cortical syndromes, epilepsy, disorder of consciousness	Oral lecture, drawing, video projection. Cases presentation	.	epilepsy, Disturbance of consciousness, cerebrovascular disorders	1
8	Intracranial hypertension syndrome, meningeal syndrome, recapitulation of the major neurological syndromes	Oral lecture, drawing, video projection. Cases presentation	.	dizziness, cerebrovascular disorders, vomiting, headache	1
9	The vascularization of the brain	Oral lecture, drawing, video projection. Cases presentation	.	cerebrovascular disorders	1
10	Multiple sclerosis, myasthenia gravis	CBL, Oral lecture, drawing, video projection. Cases presentation.	.	multiple sclerosis, movement disorders	1

11	TBL, Stroke	TBL, Oral lecture, drawing, video projection. Cases presentation	.	cerebrovascular disorders	1
12	Ischaemic stroke	Oral lecture, drawing, video projection. Cases presentation	.	cerebrovascular disorders	1
13	Hemorrhagic stroke	Oral lecture, drawing, video projection. Cases presentation	.	cerebrovascular disorders	1
14	Muscular diseases	Oral lecture, drawing, video projection. Cases presentation	.	multiscular disorders, movement disorders	1

Bibliography

Bibliography:

1. Bălașa R. Major neurological syndromes. Editura University Press Târgu Mureș, 2012, 252 pg, ISBN 978-973-169-191-6, cod CNCSIS 210.

2. Adams ,R.; Victor, M.; - Principles of Neurology-Mc Graw-Hill, New York, 2007

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Neurological history taking (anamnesis)	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.	.	confusion, dizziness, disturbance of consciousness, headache, cerebrovascular disease, migraine, peripheral nerve disorders	1
2	Examination of the sensory system.	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.	.	cranial nerve disorders, cerebrovascular disease, peripheral nerve disorders, multiple sclerosis	1
3	Motor system: examination of the muscle tone, the semiology of the muscle tone disorders.	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.	.	peripheral nerve disorders, cerebral palsy, disorders of muscle	1
4	Motor system: examination of the reflexes, the semiology of the pathological reflexes.	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.	.	peripheral nerve disorders, cerebral palsy, disorders of muscle	1
5	Examination of the balance and coordination.	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.	.	dizziness, cerebrovascular disease, peripheral nerve disorders	1
6	Examination of the unconscious patient.	CBL, Bedside learning-internship, using teaching aids such as: atlases	.	confusion, disturbance of consciousness, raised intracranial pressure, encephalopathy	1

		of anatomy and pathology, etc.			
7	Examination of the cranial nerves (I-XII).	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.		cranial nerve disorders	1
8	Clinical case reports: ischaemic stroke.	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.		Clinical case reports: ischaemic stroke.	1
9	Clinical case reports: hemorrhagic stroke.	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.		cerebrovascular disease	1
10	Clinical case reports: multiple sclerosis, Parkinson's disease.	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.		multiple sclerosis	1
11	Clinical case reports: miasthenia gravis and epilepsy.	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.		Clinical case reports: miasthenia gravis and epilepsy.	1
12	Paraclinical examinations: lumbar puncture (spinal tap), CSF examination. Electroencephalography and electromiography in normal and pathological conditions, cervico-cerebral artery ultrasound	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.		meningitis, cerebrovascular disorders, epilepsy	1
13	Clinical case reports: spinal cord pathology and peripheral nervous system pathology	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.		peripheral nerve disorders	1
14	Neuroradiological demonstrations: CT scan, MRI, DSA. 15. Clinical case reports: peripheral nervous system pathology.	CBL, Bedside learning-internship, using teaching aids such as: atlases of anatomy and pathology, etc.		cerebrovascular disease, multiple sclerosis	1

Bibliography

Bibliography:

1. Bălașa R. Major neurological syndromes. Editura University Press Târgu Mureș, 2012, 252 pg, ISBN 978-973-169-191-6, cod CNCIS 210.

2. Adams ,R.; Victor, M.; - Principles of Neurology-Mc Graw-Hill, New York, 1997

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

NA

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL-CEREBROVASCULAR DISORDERS	TBL	10
- practical activities	NA	NA	20
Final evaluation			
- theoretical final exam	-the knowledge of the material of theoretical lectures	multiple choice test	50
- practical final exam	-the knowledge of major neurological syndromes, positive diagnosis, paraclinical investigations, case presentation	-CASE PRESENTATION	20
Minimal performance standards: Minimum performance standard: the student will need to know 50 % of exam topics			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Bajko Zoltan	MARTI, VINERI, ORELE 9-11

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Psychiatry			
2.2 Course coordinator: Conf dr Mihai Adriana			
2.3 Practical activities coordinator(s): Conf dr Mihai Adriana,			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: cunoștiințe minime de psiho-farmacologie
4.2 competency: abilitatea de a efectua anamneza in limba romana, empatie si respect

5. Conditions

5.1 for lectures: calculator, videoproiector, boxe
5.2 for practical activities: sala de exersat si inregistrat interviul cu pacientul sau pacientul simulat, joc de rol, CBL, PBL

6. Specific competencies acquired

6.1 professional competencies: Achievement of knowledge about psychiatric disorders: epidemiology, psychopathology, diagnostic, treatment, prognosis and prevention. Improvement of practical skills in communication and interpersonal relationships. Improvement of empathic understanding of persons suffering from psychiatric disorders. Understanding the limits and relations between the psychic normality and abnormality.
6.2 transversal competencies: Developing of a positive and responsible attitude towards the psychiatric disorder, and psychiatry in general. Ability to communicate with patients with mental disorders. Professionalism. Respect and avoid stigmatization of patients with mental disorders.

Contributing to psycho-education of patient and family.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
 Achievement of knowledge about psychiatry and developing a respectful and professional attitude and avoid stigmatisation of patient with mental disorders

7.2 Specific objectives:
 Achievement of knowledge about psychiatric disorders: epidemiology, psychopathology, diagnostic, treatment, prognosis and prevention.
 Achievement of practical skills in doing mental status examination and identifying the sign and symptoms in psychiatry.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction in Psychiatry. Psychic normality and abnormality	online lecture, short debate about term as normal/abnormal	lecture, debate	Normal child development	2
2	Vulnerability. Social support network. Personality Disorders	online lecture, discussion about different types of personalities	lecture, questions/ answers	Learning disorders, Menopausal disorder, Chromosomal disorders	2
3	Semiology of psychic functions: senses, perception, attention, memory, thinking processes, imagination and awareness	lecture	interactive sessions	Confusion, Disturbance of consciousness, Tiredness	2
4	Semiology of psychic functions: affectivity, instincts, will and voluntary activity	lecture	interactive sessions	Psychosexual dysfunction, Sleep disturbance, Somatisation, Weight gain/ loss	2
5	Psychopathologic syndromes	TBL	interactive sessions	Suicide and self-harm	2
6	Psychiatric disorders related with cranial traumatism or other somatic disorder. Psychiatric emergencies	lecture	interactive sessions	Aggression/violence, Sexually transmitted diseases	2
7	Neurocognitive disorders. Intellectual disabilities	TBL	interactive sessions	Confusion, Cerebrovascular disease, Degenerative CNS disease	2

Bibliography

Bibliography

Compulsory:

1. Kaplan & Sadock s, Comprehensive Textbook of Psychiatry, vol 1 – 2Ed, LIPPINCOTT Williams and Wilkins, 2016
2. Adriana Mihai, Otilia Butiu, Child and Adolescent Psychiatry, Ed Risoprint, Cluj Napoca 2014
3. Glen O. Gabbard, M.D., Gabbard's Treatments of Psychiatric Disorders, 5th Edition, 2014
4. Kaplan & Sadock s, Comprehensive Textbook of Psychiatry, 50th Anniversary Edition, LIPPINCOTT Williams and Wilkins, 2017

Optional:

5. D. Nutt and J. Ballenger, Anxiety disorders – Panic Disorder and Social Anxiety Disorder, Ed Willey Blackwell, 2005
6. Raymond W. Lam, Depression, ed Oxford, 2012
7. David Goldberg, Robin Murray, The Maudsley Handbook of Practical Psychiatry, Ed Oxford, 2006

1. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020
2. Essentials of General Surgery and Surgical Specialities. Dr. Peter Lawrence M.D, 2018.
3. Ganti Latha, Lebowitz D, Rosario J, Vera A. Step-up to USMLE Step2 CK, 5th edition. 2020

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Affective disorders	case presentation	discussions	Affective disorders	2
2	Anxiety disorders	case presentation	discussions	Anxiety/phobia	2
3	Psychotic disorders	CBL	evaluation	Schizophrenia	2
4	Substance related disorders	case presentation	discussions	Substance abuse	2
5	Neurocognitive disorder	case presentation	discussions	Cerebrovascular disease	2
6	Obsessive compulsive disorder	case presentation	discussions	Sleep disturbance	2
7	Eating disorder	case presentation	discussions	Eating disorders, Weight gain, Weight loss	2

Bibliography

Bibliography

Compulsory:

1. Kaplan & Sadock s, Comprehensive Textbook of Psychiatry, vol 1 – 2Ed, LIPPINCOTT Williams and Wilkins, 2016
2. Adriana Mihai, Otilia Butiu, Child and Adolescent Psychiatry, Ed Risoprint, Cluj Napoca 2014
3. Glen O. Gabbard, M.D., Gabbard's Treatments of Psychiatric Disorders, 5th Edition, 2014
4. Kaplan & Sadock s, Comprehensive Textbook of Psychiatry, 50th Anniversary Edition, LIPPINCOTT Williams and Wilkins, 2017

Optional:

5. D. Nutt and J. Ballenger, Anxiety disorders – Panic Disorder and Social Anxiety Disorder, Ed Willey Blackwell, 2005
6. Raymond W. Lam, Depression, ed Oxford, 2012
7. David Goldberg, Robin Murray, The Maudsley Handbook of Practical Psychiatry, Ed Oxford, 2006
- 1. Kumar and Clark's Clinical Medicine, Elsevier publishing house, 10th edition, July 2020
 2. Essentials of General Surgery and Surgical Specialities. Dr. Peter Lawrence M.D, 2018.
 3. Ganti Latha, Lebowitz D, Rosario J, Vera A. Step-up to USMLE Step2 CK, 5th edition. 2020

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Respect and avoid stigmatization of patients with mental disorders.

Contributing to psycho-education of patient and family.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Problem understanding, no stigmatisation	TBL	10
- practical activities	Communication ability, practical skills	case presentation	20
Final evaluation			
- theoretical final exam	Theoretical knowledge evaluation	Written examination: questions with multiple choice answers	50
- practical final exam	Case understanding, medical thinking, treatment plan	Clinical evaluation	20

Minimal performance standards:

Minimal performance standards:

For minimal standard the students have to recognise the signs and symptoms in psychiatry, make differences between normal and pathological behaviour, elaborate a major diagnostic category and propose the treatment plan.

Must seen clinical situation list:

Affective disorders, Anxiety disorders, Psychotic disorders, Substance related disorders, Dementia

11. Must seen clinical situation list

Affective disorders, Anxiety disorders, Psychotic disorders, Substance related disorders, Dementia

12. Clinical / practical abilities

anamnesis, psychiatric evaluation, diagnosis, treatment plan

13. Appointment timetable (for students)

Conf dr Mihai Adriana	Conf. dr. Mihai Adriana Clinica Psihiatrie I

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental radiology			
2.2 Course coordinator: Șef I dr Iacob Alina			
2.3 Practical activities coordinator(s): Șef I Dr Alina Iacob, Șef I Dr Petrovan Cecilia, Șef I Dr Cosarca Adina, Șef I Dr. Berecki-Temistocle Despina			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 21		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities: 0		
- examinations: 7		
- other activities: 2		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Course room with multimedia equipment
5.2 for practical activities:
Multimedia equipment, View box, Dental radiology laboratory / machine

6. Specific competencies acquired

6.1 professional competencies:
The students will learn dental radiography techniques and incidents used in dental medicine and maxillo-facial surgery, X-ray anatomy of teeth and jaws. They will acquire the ability to identify on x-ray films, dental structures and facial bones and to describe any lesion if exist and they will learn radio-protection principles for medical stuff and patient.
6.2 transversal competencies:
The students should learn what dental radiology means and the radio-protection rules; the rules of asepsis and antisepsis in radiology lab. Effective teamwork and correlation of the x-ray image with dental diseases.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Acquiring basic dental radiography techniques. Learning radiological positioning (incidents) used in dental medicine and oro-maxilo-facial surgery. Theoretical knowledge and practical application of radio-protection methods for the doctor and the patient.

7.2 Specific objectives:

The ability to recognize dental structures and facial bones on X-ray images and to determine pathological modifications if exists.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Generalities - Dental X-ray device. X-ray film. X-ray image formation	Multimedia presentation	discussions	NA	2
2	How is obtained the X-ray image. General imaging principles and techniques	Multimedia presentation	discussions	NA	2
3	Radiation safety and protection in dentistry	Multimedia presentation	discussions	NA	2
4	Normal radiographic anatomy	Multimedia presentation	discussions X-ray image interpretation	NA	2
5	Imaging principles and techniques used in dental and maxillo-facial area	Multimedia presentation	discussions X-ray image interpretation	NA	2
6	Radiographic techniques used in dentistry (intraoral radiographic examination, panoramic imaging)	Multimedia presentation	discussions X-ray image interpretation	NA	2
7	Oral and Maxillo-facial Disorders. Interpretation of x-ray images	Multimedia presentation	discussions X-ray image interpretation	NA	2
8	Dental Anomalies	Multimedia presentation	discussions X-ray image interpretation	NA	2
9	Dental caries; complications of caries; periodontal disease	Multimedia presentation	discussions X-ray image interpretation	NA	2
10	Inflammatory lesions of the jaws; trauma; cysts of the jaws	Multimedia presentation	discussions X-ray image interpretation	NA	2
11	Maxillary sinus imaging; benign and malignant tumors of the jaws	Multimedia presentation	discussions X-ray image interpretation	NA	2
12	Salivary glands; temporomandibular joint	Multimedia presentation	discussions X-ray image interpretation	NA	2
13	Radiological examination in dental practice	Multimedia presentation	discussions X-ray image interpretation	NA	2
14	Wrong X-rays. Sources of errors	Multimedia presentation	discussions X-ray image interpretation	NA	2

Bibliography

1. White S.C., Pharoah M.J.: Oral Radiology: Principles and Interpretation, 5th Edition, Mosby, Philadelphia 2004

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental X-ray device (machine). X-ray film. X-ray image formation	Presentation of the X-ray machine and how it works	discussions	NA	2
2	How radiographic image is obtained	Practical presentation of X-ray developer and accessories	discussions	NA	2
3	Radioprotection in dentistry. Practical aspects	Multimedia presentation	discussions	NA	2
4	Normal Radiographic Anatomy	Multimedia presentation	discussions	NA	2
5	Radiographic techniques used in dental medicine	X-ray images study (observation) and interpretation	discussion	NA	2
6	Radiography of the jaws (panoramic imaging)	X-ray images study (observation) and interpretation	CBL discussion	NA	2
7	Oral and Maxillofacial Disorders. Interpretation of radiographic images	X-ray images study (observation) and interpretation	discussion	NA	2
8	Dental Anomalies	X-ray images study (observation) and interpretation	discussion	NA	2
9	Dental caries; complications of caries; periodontal disease	X-ray images study (observation) and interpretation	discussions	NA	2
10	Inflammatory lesions; trauma; cysts of the jaws	X-ray images study (observation) and interpretation	discussions	NA	2
11	Diagnostic imaging of maxillary sinus pathological conditions; benign and malignant tumors of the jaws	X-ray images study (observation) and interpretation	discussions	NA	2
12	Salivary gland radiology; diagnostic imaging of the temporomandibular joint	X-ray images study (observation) and interpretation	discussions	NA	2
13	Guidelines for prescribing dental radiographs	X-ray images study (observation) and interpretation	CBL discussions	NA	2
14	Wrong X-rays. Sources of errors in dental radiology	X-ray images study (observation) and interpretation	discussions	NA	2
Bibliography 1. White S.C., Pharoah M.J.: Oral Radiology: Principles and Interpretation, 5th Edition, Mosby, Philadelphia 2004 2. Langlais R.: Exercises in Oral Radiology and Interpretation, 4th Edition. Elsevier Science (USA).2004 3. SUCCESSFUL PANORAMIC RADIOGRAPHY https://www.kau.edu.sa					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Each student should be able to recognize the normal image of the teeth and jaws on X-rays (panoramic and retroalveolar). They should also be able to identify different pathological dental and maxillo-facial lesions and to establish a general diagnosis based on X-ray image.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	According on discipline's specific objectives	The mean of the CBLs	30
Final evaluation			
- theoretical final exam	According on discipline's specific objectives	Written evaluation - multiple choice questions test	40

- practical final exam	According on discipline's specific objectives	Test / Multiple choice questions / X-ray interpretation	30
Minimal performance standards: Final Theoretical Examination Mark - minimum 5; mark under 5 = exam failed; Practical final exam mark - minimum 5; mark under 5 = exam failed; Final mark - minimum 5; mark under 5 = exam failed. The presence - mandatory for practical activities; 20% unmotivated absences are allowed (4 hours PA = 2 PA); more then 20% unmotivated and unrecovered absences = exam failed			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

The students should be able to interpret panoramic X-ray and retroalveolar X-ray. They must recognize normal anatomy and abnormal modifications on these images and to describe them accordingly.

13. Appointment timetable (for students)

Şef I dr Iacob Alina	Pe durata modulului câte 30 de minute după fiecare curs. During the module for 30 minutes after each lecture.

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Pediatric dentistry (1)			
2.2 Course coordinator: Prof dr Bica Cristina-Ioana			
2.3 Practical activities coordinator(s): Lecturer Eșian Daniela - PhD, Lecturer Bud Anamaria - PhD, Asist. Stoica Oana - PhD, Asist. Conțac Laura - PhD student			
2.4 Year of study: IV	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 15		
- tutorial activities: 10		
- examinations: 6		
- other activities: 15		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Videoprojector, PC, flipchart
5.2 for practical activities:
Dental treatment room, dental units, videoprojector

6. Specific competencies acquired

6.1 professional competencies:
Knowledge about primary and immature tooth structure, knowledge about simple decay and pulp disease of the primary and permanent immature teeth
6.2 transversal competencies:
Knowledge about chronological steps in dental treatment, and how to chose the appropriate dental material for best treatment results, for each clinical case. Helping the student to realize the importance of periodical updating with literature resources, in order to elevate theoretical and practical knowledge. The importance of doctor-patient relation, such as the treatment should meet the patient's expectations.
Competencies related to the study program:
Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Study of dental pathology in primary and permanent immature teeth, based on the most recent fundamental and applicative research
7.2 Specific objectives: Correlation between lectures and practical activities, focused on etiology and treatment of dental carious lesion and pulp disease in primary and permanent immature teeth

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Tooth development	Oral presentation	-	-	2
2	Tooth eruption. Rerosption of the temporary teeth. The order and ages of primary and permanent tooth eruption	Oral presentation	-	-	2
3	Replacement of the temporary teeth. Accidents and tooth eruption disorders	Oral presentation	-	-	2
4	Simple caries in primary teeth: Topography and evolution, Classification, diagnosis, treatment and complex restoration of primary molars	Oral presentation	-	-	2
5	Pulp disease in primary teeth	Oral presentation	-	-	2
6	Necrosis and gangrene in primary teeth	Oral presentation	-	-	2
7	Severe early caries in children S-ECC	Oral presentation	-	-	2
8	Simple caries in permanent immature teeth	Oral presentation	Test	-	2
9	Pulp disease, necrosis and gangrene in permanent immature teeth	Oral presentation	-	-	2
10	Treatment of pulp disease in permanent immature teeth	Oral presentation	-	-	2
11	Treatment of pulp necrosis and gangrene in permanent immature teeth	Oral presentation	-	-	2
12	Medication in pediatric dentistry. Dental materials in pediatric dentistry.	Oral presentation	Integrated course. Partner: Department of Dental Materials	-	2
13	Dentistry for children with special needs	Oral presentation	-	-	2
14	Pediatric emergencies in dental office	Oral presentation	-	-	2

Bibliography

- Bica C et al. - Pediatric dentistry. Ed. University Press, Targu Mureş, 2019
- Bica C - Dentistry for children with special needs. Ed. University Press Tg.Mureş, 2016
- Cameron A, Widmer RP - Handbook of Pediatric Dentistry. 5th edition, Mosby Elsevier, 2023

Optional bibliography:

- Pinkham JR - Pediatric Dentistry. Infancy through Adolescence. 4rd edition, Elsevier Saunders, St. Louis, 2005

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental clinical examination of the paediatric patient.	Practical demonstrations, case presentations	-	-	4
2	Temporary teeth versus permanent immature teeth	Practical demonstrations, case presentations	-	-	4
3	Accidents and tooth eruption disorders. Dental age	CBL	-	-	4
4	Radiological exam in children with mixed dentition	Practical demonstrations, case presentations	-	-	4
5	Diagnosis and treatment of simple caries in temporary teeth	Practical demonstrations, case presentations	-	-	4
6	Pulp diseases in temporary teeth: classification, diagnosis	Practical demonstrations, case presentations	-	-	4
7	Acquiring specific methods of treatment in temporary teeth	Practical demonstrations, cavity preparation on simulator, case presentations	-	-	4
8	Treatment of necrosis and gangrene in temporary teeth: endodontic treatment, compromise measures, extraction	CBL	-	-	4
9	Simple caries in permanent immature teeth: diagnosis and treatment	Practical demonstrations, case presentations	-	-	4
10	Local methods of the dental caries prevention	Practical demonstrations, case presentations	-	-	4
11	Pulp inflammation in permanent immature teeth: diagnosis	Practical demonstrations, case presentations	-	-	4
12	Particular methods of treatment in permanent immature teeth	CBL	-	-	4
13	Clinical importance of the dental replacement in the support area	CBL	-	-	4
14	Paediatric dental emergencies	Practical demonstrations, case presentations	-	-	4

Bibliography

- Eșian D, Păcurar M, Jurcă A, Bud E, Bică C - Pedodonție. Îndrumător de lucrări practice. Editura University Press Tîrgu Mureș, 2014

- Bica C - Pedodonție-diagnostic și tratament. Ed. University Press Tg.Mureș, 2013

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Knowledge about the most recent techniques and dental materials, noninvasive early diagnosis methods, treatment of initial carious lesions in early stages in primary and permanent immature teeth

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge and skills acquirement	Test	15
- practical activities	Practical skills acquired during practical activities	CBL Sessions	25
Final evaluation			
- theoretical final exam	Knowledge and skills acquirement	Test - Simple and multiple choice questions	40
- practical final exam	Practical skills acquired during practical activities	Practical examination	20

Minimal performance standards:

-Minimal grade required for the promotion of the exam is 5 (the final grade being a result of the evaluations during the semester and the final exam)

-The student has to attend the evaluation during the semester (Test and CBL sessions)

-The final practical exam is mandatory, the minimal grade required for promotion being 5
-In case of absence at the theoretical test, the students will receive the grade 1; there is no possibility to repeat this evaluation, but the student will be allowed to attend the final exam.

11. Must seen clinical situation list

MUST SEEN CLINICAL SITUATIONS LIST:

1. Rhizolysis of temporary teeth
2. Early eruption
3. Late eruption
4. Eruption order disorders
5. Disorders of eruption rhythm
6. Dental malposition
7. Acute caries of the temporary teeth
8. Chronic caries of the temporary teeth
9. Early childhood caries
10. Chronic pulpitis in temporary teeth
11. Necrosis and gangrene in primary teeth (facial edema)
12. Superficial cavity in permanent immature teeth
13. Deep cavity in permanent immature teeth
14. Dental trauma

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Bica Cristina-Ioana	Monday, Friday 14,00-15,00

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Aesthetics in orthodontics			
2.2 Course coordinator: Șef I dr El Saafin Mahmoud Nabil Abdelkader			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 4		
- tutorial activities: 2		
- examinations: 2		
- other activities: 2		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Projector, computer - laptop, flipchart
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
6.1 profesionale:
Development of Advanced and personalized treatment plan clinical study (Model analysis, X-ray evaluations additional studies (OPG, TELERX), photo test, static and functional
. Occlusion, Anthropometric measurements
. Complex morphology, etiology and functional orthodontic diagnosis establishment of the use of aesthetic diagnosis in filling in the orthodontic form
Assessing the harmony of the face based on photographic examination and radiographic evaluation
Mastering the exact technique of photography
Precise knowledge of the development and growth processes of the dento-maxillary apparatus
Assessing the need for orthodontic treatment using IOTN indices

6.2 transversal competencies: Getting to know the goals to be achieved, the steps of treatment, their deadlines and possible risk factors Finding an individual role as a member of a pluridisciplinary team Orthodontic screening in communities of different ages, conducting pathological surveys. Timely diagnosis of skeletal disorders, disorders causing aesthetic disorders management of half of specialist clinics . Writing and presenting dissertations in Romanian and international languages using the information source material effectively, knowing the principles of communication Objectives, work phases, available source
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Complex orthodontic diagnosis, establishment of a treatment plan, identification of therapeutic objectives taking into account the aesthetics of the face
7.2 Specific objectives: Knowledge of the parameters responsible for facial harmony (photo analysis, X-ray evaluation) Optimal timing of treatment of dental disorders. Establishment of a complex orthodontic treatment plan depending on the age and general condition of the patient, depending on the type of disorder.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	History of facial esthetics evaluation. The role of the anthropometric measurements in establishing the general development of the human body. Cunoașterea principiilor esteticii.	Lecture, projection	-	-	2
2	TBL Facial macroesthetics. Photostatic evaluation. Facial proportions and profile analysis.	Lecture, projection	-	-	2
3	Profile changes during somatic growth. Facial harmony: lips, eyes, nose and forehead evaluation.	Lecture, projection	-	-	2
4	Facial miniesthetics. Smile analysis. Orthodontic approach of the gummy smile.	Lecture, projection	-	-	2
5	TBL Facial microesthetics. Lips- teeth proportion. The tooth morphology (black triangles).	Lecture, projection	-	-	2
6	Cephalometric measurements for facial esthetics evaluation, Ricketts E line, the Z angle.	Lecture, projection	-	-	2
7	Ortho- esthetic treatment options, The advantages of the lingual technique. The role of the ceramic brackets.	Lecture, projection	-	-	2

Bibliography

V Graber: Orthodontics current principles and techniques, Mosby, Elsevier 2011
M Fradeani: Esthetic Analysis, Quintessence publishing, 2004
W. Proffit: Orthodontics. Editura Mosby Philadelphia, 2005
E. Ionescu: Manual pentru rezidentiat vol 1,2, ed. Univ. Caro Davila, București 2021

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the course is in accordance with the dental employers needs.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Evaluate on entire semestre TBL 10%. assignment 20%	Discussing complex cases in individual and group activities	30
- practical activities	-	-	0

Final evaluation			
- theoretical final exam	The theoretical acquisition of the subject in question according to the material of the lectures	Written survey / test - with one or more hit test questions, descriptive parts	70
- practical final exam	-	-	0
Minimal performance standards: Final ticket - achievement of a minimum rating of 5			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr El Saafin Mahmoud Nabil Abdelkader	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Orthodontics (1)			
2.2 Course coordinator: Șef I dr El Saafin Mahmoud Nabil Abdelkader			
2.3 Practical activities coordinator(s): Prof dr Păcurar Mariana			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 16		
- tutorial activities: 4		
- examinations: 4		
- other activities: 4		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: Complex orthodontic diagnosis and individualized treatment plan
4.2 competency: Basic knowledge of dental morphology, dental occlusion

5. Conditions

5.1 for lectures: Computerized presentation, projector, flipchart
5.2 for practical activities: Treatment halls, dental units, negatoscopes

6. Specific competencies acquired

6.1 professional competencies: Elaboration of a complex and individualized treatment plan by clinical examination, complementary examinations (model analysis, radiography examination (OPG and teleradiography), photostatic exam, static and dynamic occlusion examination, anthropometric measurements) Establishing a morphological, etiological, and functional orthodontic complex diagnosis. Establishing therapeutic goals. Preparing the patient for the orthodontic therapy Knowing the stages of ADM growth and development, the importance of space management in mixed and permanent dentition Knowledge of methods to combat malfunctions and dysfunctions of dento-maxillary apparatus. Selective drilling, stripping, exercises of myogymnastics.

6.2 transversal competencies: Identifying the objectives to be achieved, the working steps, the implementation deadlines, the available resources, the risks and the conditions for completion a stabile and functional occlusion; Identifying the role and responsibility of a multidisciplinary team; Performing orthodontic screenings in different age groups to identify the epidemiological aspects of different types of malocclusion; Early identification of serious skeletal disorders, of facial harmony and orientation towards specialist surgery. Effective use of information resources, communication and training resources both in Romanian, Hungarian and in an international language, in order to elaborate and present a specialized paper; Identifying objectives, work phases, available resources, risk factors in targeted work.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Elaboration of an orthodontic complex diagnosis and identification of the therapeutic objectives.
7.2 Specific objectives: Acquisition of organogenetic disorders in the form of certain dento-maxillary abnormalities, approaching dysfunctions, and malfunctions. Clinical and therapeutic particularities of orthodontic malocclusions. Designing a complex orthodontic treatment plan based on the child's age and general health status, focusing on the nature of the anomaly.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Growth and development of the craniofacial complex	Oral, multimedia presentation	-	-	2
2	Classification of malocclusions. Clinical examination in orthodontics	Oral, multimedia presentation	-	-	2
3	The etiology of malocclusions	Team-based Learning (TBL), module 1	Early communication of the topic in order to prepare	-	2
4	Complementary examinations in orthodontics	Oral, multimedia presentation	-	-	2
5	Malocclusions in transversal plane: maxillary compression syndrome Class II anomalies	Oral, multimedia presentation	-	-	2
6	Malocclusions in the transversal plane: crossbite syndrome	Oral, multimedia presentation	-	-	2
7	Malocclusions in sagittal plane: distal occlusion	Oral, multimedia presentation	-	-	2
8	Malocclusions in sagittal plane: Progenic Symptom. Class III anomalies	Oral, multimedia presentation	-	-	2
9	Malocclusions in vertical plane. Deep-bite (Angle II/2)	Oral, multimedia presentation	-	-	2
10	Malocclusions in vertical plane. Open bite.	Team-based Learning (TBL), module 2	Early communication of the topic in order to prepare	-	2
11	Class I anomalies: spacing and crowding	Oral, multimedia presentation	-	-	2
12	Class I anomalies: agenesis and supranumerary teeth	Oral, multimedia presentation	-	-	2
13	Class I anomalies: dental position disorders	Oral, multimedia presentation	-	-	2
14	Labio-maxilo-palatal cleft: impression taking and orthodontic treatment plan	Oral, multimedia presentation	-	-	2

Bibliography

1. Păcurar M, Drașovean A – Anomaliile dento-maxilare – curs, Universitatea de Medicină și Farmacie Tg.Mureș, 2015,194
2. Ecaterina Ionescu - Anomaliile dentare, Editura Cartea Universitară, București, 2005
3. Graber T.Orthodontics: Current Principles and Tehniques. Fourth Edition. Mosby Elsevier, 2005

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Static monomaxilar examination	Practical demonstrations, individual activity and small groups	-	-	4
2	Static bimaxilar exams	Practical demonstrations, individual activity and small groups	-	-	4
3	Cast analysis: developmental indexes of dentoalveolar arches, perimeter, Bolton index	Case Based Learning (CBL) module 1	Complex clinical case study	-	4
4	Photostatic examination in orthodontics	Practical demonstrations, individual activity and small groups	-	-	4
5	Complementary examinations in orthodontics	Practical demonstrations, individual activity and small groups	-	-	4
6	Orthodontic clinical examination	Practical demonstrations, individual activity and small groups	-	-	4
7	Radiographic examination: OPG, lateral cephalometry	Practical demonstrations, individual activity and small groups	-	-	4
8	Clinical and radiological examination in Orthodontic	Case Based Learning (CBL) module 2	Complex clinical case study	-	4
9	Diagnostics of class I anomalies. Treatment goals	Practical demonstrations, individual activity and small groups	-	-	4
10	Diagnosis of class I malocclusions. Crowding	Case Based Learning (CBL) module 3	Complex clinical case study	-	4
11	Diagnostics of class II malocclusions. Treatment goals	Practical demonstrations, individual activity and small groups	-	-	4
12	Etiological, morphological, and functional diagnosis in class II / 1 malocclusions	Case Based Learning (CBL) module 3	Complex clinical case study	-	4
13	Diagnosis of Class III malocclusions Treatment goals	Practical demonstrations, individual activity and small groups	-	-	4
14	Case presentation	Practical demonstrations, individual activity and small groups	-	-	4

Bibliography

1. Mariana Păcurar, Cristina Bică, Claudia Ursu - Caiet de lucrări practice de ortodonție. Litografia UMF Tg.Mureș, 2003
2. Mariana Păcurar, Cristina Bică, Martha Krisztina, Anca Drașoveanu, Eugen Bud - Îndreptar de lucrări practice. Aparat ortodontice. Litografia UMF Tg.Mureș, 2006
3. Mártha Krisztina, Cristina Bică: OrthoAtlas, Ed. University Press Tg. Mureș, 2015, ISBN: 978-973-169-329-3

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Acquisition of theoretical and practical knowledge necessary for the understanding and profound knowledge of the clinical symptomatology of malocclusions, their characteristics, and the way of achieving an individualized therapeutic plan.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	Mean grade of the 2 TBL modules	15
- practical activities	CBL	Mean grade of the 4 CBL modules	25
Final evaluation			
- theoretical final exam	test	Multiple choice test	40
- practical final exam	Practical exam	Practical exam	20
Minimal performance standards: The final mark for promotion is 5 (five) and is made up of the assessments during the semester (TBL, CBL) respectively the final examinations. The student is required to attend all the evaluations throughout the academic year. If absent from a TBL module, the mark will be 1; there is no possibility of repeating this assessment, but it will still be possible to support the final exam. In the case of absences at TBL sessions for extremely justified reasons, the student has the possibility to draw up a review on the topic The final practical exam is mandatory, with the minimum promotion mark being 5.			

11. Must seen clinical situation list

MUST SEEN CLINICAL CASES - mandatory clinical cases presented to students during the semester:

1. Maxillary compression with protrusion
2. Maxillary compression without protrusion
3. Mandibular lateral shift
4. Crowding
5. Spacing
6. Upper lateral incisor agenesis
7. Agenesis of second bicuspid
8. Retention of canine
9. Class II / 1 malocclusion
10. Class II / 2 malocclusion
11. Open bite
12. Functional class III malocclusion
13. Anatomical class III malocclusion

12. Clinical / practical abilities

Minimum standards for practical works during the semester, which conditions the participation in the practical and theoretical examination in the session:

- Static monomaxillary exam, study model 2
- Static bimaxillary exam, study model 2
- Orthodontic impression 2
- Analysis of the study cast (measurements) 2
- Photostatic Exam 2
- Radiological exam: OPG 3
- Analysis of lateral cephalometry 3
- Analysis of the documentation for cl. I. malocclusion 2
- Analysis of the documentation for cl. II / 1. malocclusion 2
- Analysis of the documentation for cl. II / 2. malocclusion 2
- Analysis of the documentation for cl. III. malocclusion 2
- Orthodontic Sheet 2
- Preparation of the laboratory sheet 2
- Case presentation 2

13. Appointment timetable (for students)

Şef I dr El Saafin Mahmoud Nabil Abdelkader	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral and maxillo-facial surgery (1)			
2.2 Course coordinator: Șef I dr Coșarcă Adina-Simona			
2.3 Practical activities coordinator(s): Sef. Lucrari Dr. Cosarca Adina, Sef. Lucrari Dr. Petrovan Cecilia, Sef. Lucrari Dr. Iacob Alina, Sef. Lucrari Dr.Szava Daniel, Asist Dr. Bereczki Temistocle Despina, Asist Drd. GoluVlad, Asist Drd. Veres Szidonia, Asist Drd. Grigore Vlad			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 31		
- supplemental documentation at the library, from specialized information portals and in the field: 31		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 31		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 94		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Laptop
5.2 for practical activities:
Surgery office, demonstration room, operating rooms

6. Specific competencies acquired

6.1 professional competencies:
Description of concepts, theories and fundamental notions regarding the clinical aspects of the studied pathology. Identification of resuscitation maneuvers in first aid conditions. Correct interpretation of clinical and paraclinical signs, symptoms in order to develop a presumptive diagnosis. The use of therapeutic resources to formulate the treatment plan as well as the correct interpretation of clinical and paraclinical data. The application of the acquired clinical techniques and knowledge to be integrated with the paraclinical data with the aim of establishing the positive, differential diagnosis, as well as establishing the prognosis. Realization of a treatment plan in accordance with the stage of the disease and its individualized adaptation to the particularities of the patient. Examination, diagnosis, treatment (if it belongs to the dentist's competence), respectively referral to the

maxillofacial surgeon (when it exceeds his competence): of dental eruption disorders and accidents; of inflammatory lesions (abscesses); of dental sinusitis; of teeth, bones, and soft parts traumas; of maxillary cystic lesions; and pain syndromes in the OMF sphere. the symptoms characteristic of each condition, useful for diagnosing
6.2 transversal competencies: Identification of the objectives to be achieved, the available resources, the conditions for finalising the treatment plan, work stages, working times, related risks. Identifying roles and responsibilities in a multidisciplinary team and applying communication techniques and effective work within the team and in relation to the patient. Effective use of communication resources and assisted professional training
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Familiarization of students with the pathology of tooth eruption, dental inclusions, perimaxillary infections; injuries of soft and hard oro-maxillo-facial parts; odontogenic sinusitis, maxillary cysts; pain syndromes in the territory of the OMF.
7.2 Specific objectives: Carrying out the anamnesis, the complete and correct clinical examination as well as some basic diagnostic procedures, requesting the appropriate complementary examinations, formulating a positive and differential diagnosis. Creating a therapeutic plan individualized and performing basic therapeutic procedures, including those aimed at qualified first aid. Familiarization of students with various clinical cases, the techniques of treatment in cases of perimaxillary inflammatory conditions; in the case of pathological dental eruption, craniofacial trauma; in the case of maxillary cysts; of odontogenic sinusitis and neuralgic pain in the OMF sphere.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental eruption pathology	Oral presentation + multimedia, discussions	-	-	2
2	Dental impaction	Oral presentation + multimedia, discussions	-	-	2
3	1 Oral and maxillo facial nonspecific infections Oral presentation + multimedia, discussions	Oral presentation + multimedia, discussions	-	-	2
4	2 Oral and maxillo facial nonspecific infections	Oral presentation + multimedia, discussions	-	-	2
5	Maxillary bone nonspecific infections	Oral presentation + multimedia, discussions	-	-	2
6	Oral maxillo facial specific infections. Oral maxillo facial lymph node infection	Oral presentation + multimedia, discussions	-	-	2
7	Soft tissue injuries -Maxillofacial traumatology	Oral presentation + multimedia, discussions	-	-	2
8	Dentoalveolar trauma- Maxillofacial traumatology	Oral presentation + multimedia, discussions	-	-	2
9	Mandibular trauma	Oral presentation + multimedia, discussions	-	-	2
10	Midfacial fractures(Fracture of the nose, zygoma, orbit and maxilla)	Oral presentation + multimedia, discussions	-	-	2
11	Maxillofacial traumatology-evolution and complications	Oral presentation + multimedia, discussions	-	-	2
12	Maxillary cysts	Oral presentation + multimedia, discussions	-	-	2
13	13. Odontogenic maxillary sinusitis Oral presentation + multimedia, discussions	Oral presentation + multimedia, discussions	-	-	2
14	Oral and maxillo facial pain. Neuralgia	Oral presentation + multimedia, discussions	-	-	2

Bibliography
References:
Mandatory References:
 1. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 și 2, Editura 2009 Q Med Publishing București
Optional References:
 1. Burlibașa C.: Chirurgie Orală și Maxilofacială, Editura Medicală, București, 2003
 2. Rotaru A., G. Băciut, Rotaru H.: Chirurgie Maxilo-Facială vol. I-II, Editura Medicală Universitară „Iuliu Hațieganu”, Cluj Napoca, 2003
 3. Szabó Gy.: Oral and Maxillofacial Surgery, Semmelweis Publishing House, Budapest, 20
 4. UJ Moore, Principles of oral and maxillofacial surgery, Sixth Edition, Wiley Blackwell

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Dental eruption pathology	Case presentation, multimedia, discussions	-	-	2
2	Dental impaction	Case presentation, multimedia, discussions	-	-	2
3	1 Oral and maxillo facial nonspecific infections	Case presentation, multimedia, discussions	-	-	2
4	2 Oral and maxillo facial nonspecific infections	Case presentation, multimedia, discussions	-	-	2
5	Maxillary bone nonspecific infections	Case presentation, multimedia, discussions	-	-	2
6	Oral maxillo facial specific infections. Oral maxillo facial lymph node infection	CBL	CBL1	-	2
7	Soft tissue injuries -Maxillofacial traumatology	Case presentation, multimedia, discussions	-	-	2
8	Dentoalveolar trauma- Maxillofacial traumatology	Case presentation, multimedia, discussions	-	-	2
9	Mandibular trauma	Case presentation, multimedia, discussions	-	-	2
10	Midfacial fractures (Fracture of the nose, zygoma, orbit and maxilla)	Case presentation, multimedia, discussions	-	-	2
11	Maxillofacial traumatology-evolution and complications	Case presentation, multimedia, discussions	-	-	2
12	Maxillary cysts	CBL	CBL2	-	2
13	Odontogenic maxillary sinusitis Oral presentation + multimedia, discussions	Case presentation, multimedia, discussions	-	-	2
14	Oral and maxillo facial pain. Neuralgia	Case presentation, multimedia, discussions	-	-	2

Bibliography
References:
Mandatory References:
 1. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 și 2, Editura 2009 Q Med Publishing București
Optional References:
 1. Burlibașa C.: Chirurgie Orală și Maxilofacială, Editura Medicală, București, 2003
 2. Rotaru A., G. Băciut, Rotaru H.: Chirurgie Maxilo-Facială vol. I-II, Editura Medicală Universitară „Iuliu Hațieganu”, Cluj Napoca, 2003
 3. Szabó Gy.: Oral and Maxillofacial Surgery, Semmelweis Publishing House, Budapest, 20
 4. UJ Moore, Principles of oral and maxillofacial surgery, Sixth Edition, Wiley Blackwell

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Correct examination of patients with various dental eruption disorders, with non-specific perimaxillary inflammation, with bone infections (both in most cases of dental cause); with oro-maxillo-facial trauma; with maxillary cysts; with sinusitis of dental cause, with painful syndromes in the territory of the OMF (elimination of possible dental causes); their diagnosis and treatment when the extent of the injuries allows the approach in the office, or redirecting the patient to other services when the complexity of the case requires it.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	According to the Department of oral and maxillofacial surgery	-	0
- practical activities	According to the Department of oral and maxillofacial surgery	CBL	30
Final evaluation			
- theoretical final exam	According to the Department of oral and maxillofacial surgery	Whritten evaluation-multiple choice test-	40
- practical final exam	According to the Department of oral and maxillofacial surgery	Oral /written revision on pathology studied in the course of the semester-Verification	30
Minimal performance standards: Final lecture exam grade – minim 5; notă < 5 = failed; Final pa exam grade (verificare) – minim 5; notă < 5 = failed; Final grade – minim 5; notă < 5 = failed. Attendance- mandatory for practical activities. 20% of motivated absences (with the acceptance of the dean's office) can be reccuperated. Additional informations will pe provided by the lecture/practical activities coordinator/s			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

Patient examination with specific pathology -making the correct diagnosis

13. Appointment timetable (for students)

Şef I dr Coşarcă Adina-Simona	15 minutes after each course

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M4
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Endocrinology concepts			
2.2 Course coordinator: Prof dr Pașcanu Maria-Ionela			
2.3 Practical activities coordinator(s): -			
2.2 Course coordinator: Asist dr Reti Zsuzsanna			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
x
4.2 competency:
x

5. Conditions

5.1 for lectures:
acces internet, PC, videoproiector
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
- descrierea notiunilor fundamentale despre producerea bolilor endocrine, a semnelor si simptomelor caracteristice fiecarei afectiuni utile pentru orientarea diagnosticului clinic, descrierea strategiilor profilactice și terapeutice,
- identificarea factorilor de risc în bolile endocrine, a problemelor populaționale de sănătate în domeniul endocrinologiei

6.2 transversal competencies:
- conștientizarea nevoii de formare continuă de-a lungul întregii vieți; utilizarea eficientă a resurselor și tehnicilor de învățare pentru dezvoltarea personală și profesională; cunoștințele, abilitățile și atitudinile învățate asigură o bază solidă pentru formarea ulterioară,
- implicarea în competențe sociale și civile, în probleme de sănătate publică în domeniul endocrinologiei, prin informarea/educarea populației privind prevenția și managementul factorilor de risc ale bolilor endocrine
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
a promova o pregătire de varf în endocrinologie, a motiva și inspira cercetarea clinică și experimentală endocrină, și a pregăti studenții în practicarea activităților medicale și de cercetare la un nivel academic în domeniul endocrinologiei
7.2 Specific objectives:
- stabilirea importanței endocrinologiei în cadrul planului de învățământ universitar,
- sublinierea relației strânse existente între endocrinologie și celelalte specialități medicale și chirurgicale,
- stabilirea unui barem minim de cunoștințe necesar pentru desfășurarea adecvată a activității medicale,
- pregătirea studenților de a înțelege/învăța mecanismele de bază în endocrinologie, acțiuni și interacțiuni hormonale, fiziologia endocrină și patofiziologia bolilor endocrine

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction. Classification, methods of diagnosing, biorhythms, actions and endocrine receptors. Etiology and pathogenesis of endocrine disease. Semiology.	Oral presentation +multimedia support	-	Pituitary gland pathology, hydro-electrolyte imbalance, cerebral tumors, appetite disorders, headache, visual impairment, polyuria, nausea, weight loss, weight loss, sleep disturbance	2
2	Hypothalamus and pituitary – physiology and dysfunctions. Pituitary tumors. Diabetes insipidus. Acromegaly. Hyperprolactinemia.	Oral presentation +multimedia support	-	Pituitary gland pathology, brain tumors, headache, visual impairment, nausea, weight gain, weight loss	2
3	Thyroid gland – physiology and dysfunctions. Thyrotoxicosis. Hypothyroidism. Thyroid nodules. Thyroid cancer.	Oral presentation +multimedia support	-	Thyroid Pathology, Palpitations, Visual Impairment, Blindness, Weight Loss, Orbital Inflammation, Learning Disorders, Deafness, Anemia, Constipation, Dysphagia, Short stature, Weight gain, Edema	2
4	Parathyroid glands – physiology and dysfunctions. Hypocalcemic disorders. Hypercalcemic disorders. Osteoporosis.	Oral presentation +multimedia support	-	Disorders of calcium and vitamin D metabolism, osteoporosis	2
5	Adrenal gland – Adrenal failure. Adrenal crisis. Secondary hypertension (Cushing syndrome. Adrenal medulla - Pheochromocytoma. Primary aldosteronism).	Oral presentation +multimedia support	-	Hyperfunction of the adrenals. Hypertension. Diabetes mellitus. Adrenal failure	2
6	Gonads – puberty, ovarian/testicular dysfunctions.	Oral presentation +multimedia support	-	Disorders of puberty, Hypogonadism, Infertility, Gynecomastia, Menstrual disorders, Contraception,	2
7	Obesity: Etiology, pathogenesis. The metabolic syndrome.	Oral presentation +multimedia support	-	Lipid metabolism disorders, Diabetes mellitus, Acne, Weight gain	2

Bibliography

Bibliography

1. Kumar and Clark's Clinical Medicine, 10th edition 2021, Elsevier – chapter 19 Bone disease (pg 471-485) & 21 Endocrinology (pg 583-650).
2. Presentations and other material uploaded in Blackboard

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Detinerea unui barem minim de cunoștințe specifice endocrinologiei pentru desfășurarea adecvată a activității medicale

Dobandirea capacității de a utiliza algoritmele diagnostice și terapeutice existente

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Team-Developed Paper (5 members/team) = 30% of the final grade (Papers will be scored from 1 to 10 based on originality, scientific content, and subject relevance). o The theme of the paper will be an endocrinological mini-case with dental implications – topics will be available in the first week of the module. The paper should be between 400-600 words (excluding title, author names, references) and should be structured as a case presentation: introduction, subject relevance, case presentation, discussions, conclusions, and management plan. References (minimum 5 recommended) should be cited in the order of appearance in the text. Papers that do not meet the length criterion (either below 400 or over 600 words) will not be scored. Students will choose the paper theme in the second week of the semester and communicate it to the course coordinator. For team formation, collegial discussion is recommended. If consensus is not reached, the course coordinator will determine the teams, after the second lecture.	grading from 1 to 10, based on originality, scientific information	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	basic notions in general endocrinology, etiopathogenesis, clinical symptoms and signs of endocrine disease, laboratory and imaging investigations, differential diagnosis, therapeutic strategy of endocrine diseases	test 25-50 multiple choice questions	70
- practical final exam	-	-	0
Minimal performance standards: Correct answer to at least half of the questions at the end of the semester. Clinical recognition of endocrine diseases, interpretation of paraclinical investigations (hormonal tests, tumour markers, MRI), identifying endocrine emergencies, identifying objectives and therapeutic priorities, medical prescriptions, identifying endocrine risk factors and their prophylaxis.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Prof dr Pașcanu Maria-Ionela	Miercuri de la 13-14, Vineri de la 12 la 14
Asist dr Reti Zsuzsanna	Vineri 11-12

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral implantology			
2.2 Course coordinator: Șef I dr Coșarcă Adina-Simona			
2.3 Practical activities coordinator(s): Șef Lucrări Dr. Petrovan Cecilia, Șef Lucrări Dr. Bögözi Bálint, Șef Lucrări Dr. Dr. Iacob Alina, Șef Lucrări Dr. Száva Dániel, Șef. Lucr.dr. Cosarca Adina, Asist Dr. Temistocle Despina, Asist.Drd.Golu Vlad, asist Drd.Veres Szidonia, Asist Dr. Grigore Vlad			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 24		
- supplemental documentation at the library, from specialized information portals and in the field: 24		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 23		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 72		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Lecture room, Laptop
5.2 for practical activities:
Operating room, demonstrating room

6. Specific competencies acquired

6.1 professional competencies:
Correct local and general examination of the patient, in order to establish the indication for dental implants placement. Theoretical knowledge of local and general contraindications for implants placement. Theoretical knowledge of the insertion techniques of different types of implants; improving the bone offer; accidents, complications that occur and ultimately lead to the removal of the implant. Knowing how to assure a correct follow-up of patients with implants.
6.2 transversal competencies:
-Additional competence Compliance with the rules of asepsis and antisepsis, of labor protection and of the lead practitioner. Effective teamwork.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
 Introduction of implantology treatment in dentistry treatment. Good knowledge of local and general indications and contraindications of implant insertion.

7.2 Specific objectives:
 7.2 Specific objectives Theoretical knowledge of common insertion methods for different types of implants in oral cavity. Theoretical knowledge of bone grafting. Postoperator treatment, hospitalization for implant patients, implant hygiene

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The historical development of dental implants. Anatomy of the maxillary and mandibular bone. Implant clasification	Oral presentation + multimedia, Discussions	-	-	2
2	Patient examination in cases of implant insertion. Bone supply	Oral presentation + multimedia, Discussions	-	-	2
3	Indications, contraindications in implantology	Oral presentation + multimedia, Discussions	-	-	2
4	Surgical principles for the implantology Osseointegration	Oral presentation + multimedia, Discussions	-	-	2
5	Biomaterials used for improving the bone substrate	Oral presentation + multimedia, Discussions	-	-	2
6	Hard tissue surgery and bone grafting	Oral presentation + multimedia, Discussions	-	-	2
7	Accidents and complications in implantology	Oral presentation + multimedia, Discussions	-	-	2
Bibliography Arung K. Garg, Implant Dentistry- A practical Approach, 2010, Mosby, Elsevier Pankaj P. Singh, A. Norman Cranin, Atlas of Oral Implantology, Third Edition, 2010, Mosby, elsevier Misch's Cntemorary Implant dentistry ,Fourth edition					

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Implant clasification Implant sistem components	Multimedia and oral presentation, discussions	-	-	2
2	Patient examination in implantology	Multimedia and oral presentation, discussions	-	-	2
3	Biomaterials used for improving the bone substrate	Multimedia and oral presentation, discussions	-	-	2
4	Implants placement	CBL	CBL 1	-	2
5	Implants placement	Multimedia and oral presentation, discussions	-	-	2

6	6. Hard tissue surgery and bone grafting Multimedia and oral presentation, discussions	Multimedia and oral presentation, discussions	-	-	2
7	Accidents and complications in implantology	Multimedia and oral presentation, discussions	-	-	2

Bibliography

Arun K. Garg, Implant Dentistry, a practical approach , 2010, Mosby, Elsevier

Pankaj P. Singh, A. Norman Cranin, Atlas of oral implantology, Third edition, 2010, Mosby, Elsevier

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	According to the Department of Oral and maxillofacial surgery	-	0
- practical activities	According to the Department of Oral and maxillofacial surgery	CBL	30
Final evaluation			
- theoretical final exam	According to the Department of Oral and maxillofacial surgery	Written test - multiple choice questions	40
- practical final exam	According to the Department of Oral and maxillofacial surgery	oral/written test	30
Minimal performance standards: Final lecture exam grade – minim 5; notă < 5 = failed; Final pa exam grade – minim 5; notă < 5 = failed; Final grade – minim 5; notă < 5 = failed Attendance : mandatory for practical activities. 20% of motivated (with the dean's office accept) absences can be recuperated- further details are decided by the course/practical activities coordinator/s			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Coşarcă Adina-Simona	15 minutes after each course

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Pediatric dentistry (2)			
2.2 Course coordinator: Șef I dr Eșian Daniela-Elena			
2.3 Practical activities coordinator(s):			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4/12	3.2 lecture: /4	3.3 practical activities: 4/8
3.4 Total hours in curriculum: 112	3.5 lectures: 28	3.6 practical activities: 84
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 13		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 12		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 38		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Videoprojector, PC, flipchart
5.2 for practical activities:
Dental treatment room, dental units, hand pieces, burs, endodontic files

6. Specific competencies acquired

6.1 professional competencies:
Description of the physiological and pathological aspects regarding the occurrence of dental anomalies based on the knowledge of anatomy, embryology and oral pathology
Recognition and diagnosis of muco-periodontal in children and adolescents based on clinical and complementary examinations
The application of basic knowledge to develop a complex diagnosis and establish a therapeutic plan
6.2 transversal competencies:
Helping the student to realize the importance of an efficient work in a multidisciplinary team and also the importance of a good doctor- patient relation, such as the treatment should meet the patient's expectations.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Knowledge of dental anomalies, muco-periodontal pathology and dental traumatology in children and adolescents
7.2 Specific objectives: Acquiring the particularities of the odontogenetic disorders in the form of different primary and secondary dental anomalies Knowledge of clinical and therapeutic aspects of temporary teeth traumatic injuries Knowledge of clinical and therapeutic aspects of traumatic injuries in immature permanent teeth Knowledge of clinical and therapeutic aspects of partial and total edentations in children and adolescents Conceiving a complex pedodontic treatment plan based on the child's age and general health status

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Theory of psychology in pediatric dentistry practice	Oral presentation and multimedia	-	-	2
2	Primary dental anomalies	Oral presentation and multimedia	-	-	2
3	Secondary dental anomalies	Oral presentation and multimedia	-	-	2
4	Amelogenesis imperfecta. Dentinogenesis imperfecta	Oral presentation and multimedia	-	-	2
5	Traumatic dental injuries in temporary teeth	Oral presentation and multimedia	-	-	2
6	Traumatic dental injuries in permanent teeth	Oral presentation and multimedia	-	-	2
7	Traumatic avulsion. Possibilities of replanting and immobilization	Oral presentation and multimedia	-	-	2
8	Oral lesions in childhood and adolescence I. Oral manifestations of systemic diseases	Oral presentation and multimedia	-	-	2
9	Oral lesions in childhood and adolescence II. Oral manifestations of systemic diseases	Oral presentation and multimedia	-	-	2
10	Prosthetic treatment in pediatric dentistry	Oral presentation and multimedia	-	-	2
11	Techniques for surgical treatment in pediatric dentistry	Oral presentation and multimedia	-	-	2
12	The pedodontic approach of patients with cleft lip and palate	Oral presentation and multimedia	-	-	2
13	Methods of sedation in pediatric dentistry	Oral presentation and multimedia	-	-	2
14	Permanent first molar pathology	Oral presentation and multimedia	-	-	2

Bibliography

Bibliography

- Cristina Bica - Pedodontie-diagnostic și tratament. Ed. University Press Tg.Mureș, 2013
- Cameron A, Widmer RP - Handbook of Pediatric Dentistry. 3rd edition, Mosby Elsevier, 2008
- Elisabeta Bratu, Florica Glăvan – Practica Pedodontică. Ed. Orizonturi Universitare, Timișoara, 2005

Optional bibliography:

- Duggal M, Cameron A, Toumba J- Paediatric Dentistry at a Glance, Wiley-Blackwell, 2013
- Masthan KMK- Textbook of pediatric oral pathology, First edition, Jaypee, 2011
- Pinkham JR - Pediatric Dentistry. Infancy through Adolescence. 4rd edition, Elsevier Saunders, St. Louis, 2005

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours

1	Treatment techniques in simple and complicated caries of deciduous teeth-a review	Demonstrations, interactive discussions	-	-	6
2	Treatment techniques in simple and complicated caries of immature permanent teeth-a review	Case Based Learning	Students will approach a complex clinical case	-	6
3	Diagnosis and treatment of crown and root fractures in deciduous teeth	Demonstrations, interactive discussions	-	-	6
4	Diagnosis and treatment of crown and root fractures in immature permanent teeth	Case Based Learning	Students will approach a complex clinical case	-	6
5	Methods of immobilization in dental trauma injuries	Demonstrations, interactive discussions	-	-	6
6	Treatment options in dental anomalies	Demonstrations, interactive discussions	-	-	6
7	Prosthetic treatment in children and adolescents. Interceptive therapeutic measures	Demonstrations, interactive discussions	-	-	6
8	Diagnosis and treatment of oral lesions in childhood diseases	Demonstrations, interactive discussions	-	-	6
9	Diagnosis and treatment of oral lesions in systemic diseases	Demonstrations, interactive discussions	-	-	6
10	Methods of therapeutic approach for children with cleft lip and palate	Demonstrations, interactive discussions	-	-	6
11	Assessment of the psychological status in pediatric dentistry	Demonstrations, interactive discussions	-	-	6
12	Complex diagnosis in pediatric dentistry. Clinical case presentation	Case Based Learning	Students will approach a complex clinical case	-	6
13	Prophylaxis of the permanent first molar	Demonstrations, interactive discussions	-	-	6
14	Medication in pediatric dentistry (antibiotics, anti-inflammatory, analgesic therapy)	Demonstrations, interactive discussions	-	-	6

Bibliography

Bibliography

Cristina Bică - Pedodonție-diagnostic și tratament. Ed. University Press Tg.Mureș, 2013

Eșian D, Păcurar M, Jurcă A, Bud E, Bică C - Pedodonție. Îndrumător de lucrări practice. Editura University Press Tîrgu Mureș, 2014

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge and skills acquirement	Test	15
- practical activities	Practical skills acquired during practical activities	CBL sessions	25
Final evaluation			
- theoretical final exam	Knowledge and skills acquirement	Written MCQ	40
- practical final exam	Practical skills acquired during practical activities	Practical examination	20

Minimal performance standards:

Minimal performance standards:

- Minimal grade required for the promotion of the exam is 5 (the final grade being a result of the evaluations during the semester and the final exam)
- The student has to attend the evaluation during the semester (TBL and CBL sessions)
- The final practical exam is mandatory, the minimal grade required for promotion being 5
- In case of absence at the TBL sessions, the student will receive the grade 1; there is no possibility to repeat this evaluation but the student will be allowed to attend the final exam

Must seen clinical situation list :

1. Severe early childhood caries
2. Clinical forms of pulpitis in temporary teeth
3. Necrosis in primary teeth (periapical pathology)
4. Clinical forms of reversible pulpitis of young permanent teeth
5. Complicated necrosis of permanent immature teeth
6. Assessment of a case with dental trauma in emergency
7. Crown and root fractures of primary teeth
8. Luxations in primary teeth
9. Crown and root fractures of permanent teeth
10. Luxations in permanent teeth
11. Avulsion in permanent teeth
12. Dental anomalies of size, shape, number and structure
13. Oral pathology in children

11. Must seen clinical situation list

1. Severe early childhood caries
2. Clinical forms of pulpitis in temporary teeth
3. Necrosis in primary teeth (periapical pathology)
4. Clinical forms of reversible pulpitis of young permanent teeth
5. Complicated necrosis of permanent immature teeth
6. Assessment of a case with dental trauma in emergency
7. Crown and root fractures of primary teeth
8. Luxations in primary teeth
9. Crown and root fractures of permanent teeth
10. Luxations in permanent teeth
11. Avulsion in permanent teeth
12. Dental anomalies of size, shape, number and structure
13. Oral pathology in children

12. Clinical / practical abilities

Treatment of simple and complicated decay in deciduous and permanent teeth 3
Dental trauma injuries of deciduous teeth. Treatment plan 2
Dental trauma injuries of permanent teeth. Treatment plan 2
Primary and secondary dental anomalies. Treatment plan/Restorative treatment 2
Complex diagnosis and treatment plan in temporary and mixed dentition (clinical cases) 1
Complex diagnosis and treatment plan in temporary and mixed dentition(OPG)2
Pediatric emergencies in dental office 1

13. Appointment timetable (for students)

Şef I dr Eşian Daniela-Elena

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: ME2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Physiotherapy in dental medicine			
2.2 Course coordinator: Șef I dr Chiș Monica			
2.3 Practical activities coordinator(s): Șef lucr. dr Chis Monica, asist. univ. drd. Popescu Daniela Manuela			
2.4 Year of study: V	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 7		
- supplemental documentation at the library, from specialized information portals and in the field: 7		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 7		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 22		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular: biophysics, anatomy, neurophysiology, physiopathology
4.2 competency: NA

5. Conditions

5.1 for lectures: Emergency County Hospital - Department of Rheumatology
5.2 for practical activities: Emergency County Hospital - Department of Rheumatology

6. Specific competencies acquired

6.1 professional competencies: The main objective of this lecture is to offer to the medical student an image of the problems imposed by different pathologies concerning the quality of life of the patients and also to offer solutions, aiming the improvement of their outcome by rehabilitation. - The medical student should be able to complete a whole physiatric evaluation in order to establish the status and the future management of the patient.
6.2 transversal competencies: The medical student should be able to give solutions (in terms of rehabilitations programme) and to apply them aiming a major reintegration of the patient in society, taking into account the pro and cons according with the pathology.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Rehabilitation is a teamwork, so in order to fulfill it the medical student should find and to adapt its position in a team whose main aim is the needs of the patient. So, she/he would be able to communicate with the nurse, the occupational therapist, the nurse and therapist specialized in physical rehabilitation, the psychologist and the physician of the current disease.
7.2 Specific objectives: The secondary objectives, after following this lecture, are: -To be able to evaluate a patients from the perspective of the physiatric physician, -To be able to apply the principles of rehabilitation, -To be able to recognize the benefits of a complex rehabilitation plan -To know how to work in a rehab team

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction notions - physics in rehabilitation	oral media presentation	Rehabilitation management	pain management,	2
2	Physical modalities	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2
3	Kinetherapy (medical gymnastics)	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2
4	Rehabilitation in connective tissue diseases	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2
5	Rehabilitation in ankylosing spondylitis	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2
6	Rehabilitation in osteoarthritis and LBP (low back pain)	oral media presentation	TBL	pain management, disorders of muscle	2
7	Rehabilitation in TMP joint affections. Rehabilitation of the facial nerve injury	oral media presentation	Rehabilitation management	pain management, disorders of muscle	2

Bibliography

Mandatory bibliography:

1. Physical & Rehabilitation Medicine for Medical students, MG Ceravolo, N. Christodoulou, 2018, ISBN: 978-88-7051-634-4

Support bibliography:

1. Physical Medicine and Rehabilitation (fourth edition), Randall L. Braddom, Elsevier Saunders ed., 2011, 1-1506, ISBN: 978-1-4137-70884-4

2. Physical Medicine and Rehabilitation Secrets (third edition), B. J. O'Young, Mosby Elsevier ed., 2008, 1-748, ISBN- 13: 978-1-4160-3205-2

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The physiatric history. Physical examination (muscle testing, goniometry)	PPT	practical skills	pain management, disorder of muscle	2
2	Electrotherapy	PPT	practical skills	pain management	2
3	Heat therapies	PPT	practical skills	pain management	2
4	Hydrokinetherapy	PPT	practical skills	pain management	2
5	Massage	PPT	practical skills	pain management	2
6	Clinical case presentations	PPT	practical skills	pain management	2

7	Clinical case presentations	PPT	CBL	pain management	2
Bibliography Bibliography Mandatory bibliography: 1. Physical & Rehabilitation Medicine for Medical students, MG Ceravolo, N. Christodoulou, 2018, ISBN: 978-88-7051-634-4 Support bibliography: 1. Physical Medicine and Rehabilitation (fourth edition), Randall L. Braddom, Elsevier Saunders ed., 2011, 1-1506, ISBN: 978-1-4137-70884-4 2. Physical Medicine and Rehabilitation Secrets (third edition), B. J. O'Young, Mosby Elsevier ed., 2008, 1-748, ISBN- 13: 978-1-4160-3205-2					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The community is in search of a multimodal approachment of different pathologies in order to alleviate the quality of life of the patients and to improve their condition and by thus the society. The society is expecting active individuals capable to innovate. Knowing the needs will provide the dental students the opportunity to use all the resources in order to improve the dental management.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	to be able to upgrade his/her grade from the individual evaluation to the team one such showing his/her gaining and using new knowledges.	MQT-TBL	10
- practical activities	To be able to outline the main objectives in rehab. At least 5 out of 10.	Clinical case - CBL	20
Final evaluation			
- theoretical final exam	At least 6 out of 10.	MQT	70
- practical final exam	NA	NA	0
Minimal performance standards: The medical student should be able to perform/ to apply: -the physiatric history -the physical examination -the therapeutical exercise – contraindications (major) -the physical agent modalities - contraindications (major) -the manipulation, traction and massage - contraindications (major) Must seen: AS, OA, low back pain, facial nerve injury			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Chiş Monica	Friday between 10 am to 2pm

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Implanto-prosthetic therapy			
2.2 Course coordinator: Conf dr Bechir Edwin-Sever			
2.3 Practical activities coordinator(s): Șef I dr Lazăr Ana-Petra, Asist dr Bardocz-Veress Zsuzsanna, Conf dr Biriș Carmen-Ioana			
2.4 Year of study: V	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 28	3.5 lectures: 14	3.6 practical activities: 14
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 24		
- supplemental documentation at the library, from specialized information portals and in the field: 24		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 23		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 72		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: Multimedia Equipment
5.2 for practical activities: Practical demonstrations, case studies / multimedia equipment, documentary support for clinical cases.

6. Specific competencies acquired

6.1 professional competencies: Technical or professional skills: Acquiring the necessary knowledge to develop an implant-prosthetic treatment plan. Acquiring the theoretical knowledge that involves choosing the implant according to the future prosthetic work. The ability to acquire knowledge about choosing the ideal candidate for implant overdenture.
6.2 transversal competencies: Notions about the concepts of prosthetic implant therapies Notions related to paraclinical investigations useful in formulating effective diagnoses and treatment plans. Affective-value skills: Communication with the patient.

Communication with the dental technician.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Knowledge of overdenture concepts, indications, contraindications, overdenture variants on implants.
7.2 Specific objectives: Learning the methods of examining patients. Understanding the importance of the concept of implant-to-prosthetic oral rehabilitation. Acquiring the necessary knowledge to develop an individualized implant-prosthetic treatment plan.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The candidate for implant prosthetics.	Multimedia presentation	-	-	1
2	Anatomical consequences of edentulousness.	Multimedia presentation	-	-	1
3	The advantages of prosthetic restorations on implants.	Multimedia presentation	-	-	1
4	General terminology of implants and prosthetic attachments.	Multimedia presentation	-	-	1
5	Establishing the prosthetic treatment plan.	Multimedia presentation	TBL	-	1
6	Impression taking and fabrication of prostheses in implantology.	Multimedia presentation	-	-	1
7	Prosthetic considerations.	Multimedia presentation	-	-	1
8	Prosthetic principles of edentulous restoration by dental implants.	Multimedia presentation	-	-	1
9	Clinical situations for different types of edentulousness and their treatment with dental implants.	Multimedia presentation	-	-	1
10	Clinical situations for different types of edentulousness and their treatment with dental implants.	Multimedia presentation	-	-	1
11	Clinical variants of implant treatment.	Multimedia presentation	TBL	-	1
12	Temporary prosthesis on implants.	Multimedia presentation	-	-	1
13	Definitive prosthesis on implants.	Multimedia presentation	-	-	1
14	Dispensing patients with prosthetic works on implants.	Multimedia presentation	-	-	1

Bibliography

1. Lecture Notes
2. Jensen., The sinus bone graft, Quintessence Publishing, 2006.
3. Davarpanah, Szmukler-Moncler. Immediate loading of dental implants, Quintessence International 2008.
4. Misch, Contemporary implant dentistry, Elsevier Mosby 2005.
5. Misch C.E., Dental Implant Prosthetics, Elsevier Mosby, 2005.

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Prosthetic components used in implantology.	Presentation	-	-	1
2	OPG examination in implantology - indications, contraindications, advantages, disadvantages, limits.	OPG Examination	-	-	1

3	The use of CBCT examination in the exploration of the pre-implant bone substrate.	CBCT Examination	-	-	1
4	CBCT - applications, advantages and disadvantages.	CBCT Interpretation	-	-	1
5	CBCT-guided implant treatment – planning and execution techniques.	CBCT implant insertion simulation.	-	-	1
6	Preparation of the treatment plan in implantology.	Presentation	-	-	1
7	CBL	CBL	-	-	1
8	Preliminary impression, preliminary model, individual tray.	Practical demonstration.	-	-	1
9	The final impression. Realization of the working model.	Practical demonstration.	-	-	1
10	Realization of the mesostructure. The choice of calculable abutments.	Practical demonstration.	-	-	1
11	CBL	CBL	-	-	1
12	Realization of the prosthesis model with implant anchorage.	Practical demonstration.	-	-	1
13	Making the finished prosthetic piece.	Practical demonstration.	-	-	1
14	Evaluation of finished parts. Appreciation and criticism.	Presentation	-	-	1

Bibliography

1. Lecture Notes
2. Davarpanah, Szmukler-Moncler. Immediate loading of dental implants, Quintessence International 2008
3. Khoury, Antoun, Missika, Bone augmentation in oral implantology, Quintessence Publishing, 2007
4. Misch CE, Contemporary implant dentistry, Elsevier Mosby 2005
5. Misch CE, Dental Implant Prosthetics, Elsevier Mosby, 2005

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is relevant and up-to-date to the demands of the practical activity, the correct application of the notions of dental prosthetics, periodontology, implantology, and those of general pathology, pharmacology, physiopathology and psychology being essential in restoring the functionality of the dentomaxillary apparatus, within the framework of prosthetic implant therapies.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course topic.	TBL (Average)	20
- practical activities	Knowledge of the theoretical and practical aspects of the subject of practical works.	CBL (Average)	20
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects of the course topic.	Multiple Choice Examination	40
- practical final exam	Knowledge of the theoretical and practical aspects of the subject of practical works	Interpretation of paraclinical examinations in the context of a given clinical situation.	20

Minimal performance standards:

Obtaining the minimum grade of 5 (five) for each component of the evaluation:

Course:

- to know the basic concepts related to prosthetic implant therapy,
- to participate in the debate groups in the TBL system, on the mentioned topics

Practical work*:

- to carry out at least one documented case presentation CBL 1,
- to interpret a CT/CBCT CBL 2 in order to formulate the diagnosis and the treatment plan.

*meeting the minimum practical performance criteria allows the student to take the theoretical exam

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Bechir Edwin-Sever	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Periodontology (1)			
2.2 Course coordinator: Șef I dr Vlasa Alexandru			
2.3 Practical activities coordinator(s): Alexandru Vlasa, Benedek Csilla			
2.4 Year of study: V	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 28		
- supplemental documentation at the library, from specialized information portals and in the field: 28		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 18		
- tutorial activities: 14		
- examinations: 28		
- other activities: 14		
3.8 Total hours of individual study: 130		
3.9 Total hours: 200		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Video projector, PC, flipchart
5.2 for practical activities:
Video projector, PC, periodontal examination instruments

6. Specific competencies acquired

6.1 professional competencies:
Correct diagnosis of different forms of periodontal disease, knowledge of methods for recording odonto-periodontal status in specific files.
Correct use of means of clinical examination (periodontal probes, CPITN) and radiographic examination of periodontal patients.
Recognition of the correlations between systemic diseases and supporting tissues of the teeth.
Learning the treatment methods applicable in the initial phase of periodontal therapy (root scaling, sub-gingival curettage).

6.2 transversal competencies:

Training in interdisciplinary collaboration skills with related medical specialties (microbiology, immunology, histopathology, dental-alveolar surgery) in order to achieve a complex treatment of periodontal disease.
Knowledge of working methodologies in medium and long-term studies on the results of periodontal therapy in different groups of patients

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Knowledge of the anatomical elements of the periodontal tissue and of the areas with its maximum vulnerability, in order to be able to understand the periodontal pathology and the applied therapeutic means

7.2 Specific objectives:

Acquiring the morphological features of periodontal tissues in different pathological conditions.

Knowledge of clinical signs and optimal treatment methods in gingivitis and periodontitis.

Designing a complex periodontal treatment plan, adapted to the age and general health of the patient.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Terminology used in periodontics, history of periodontics	PC, video projector, oral presentation	-	-	2
2	Structure of normal periodontium, superficial periodontium	PC, video projector, oral presentation	-	-	2
3	Deep(supporting) marginal periodontium,	PC, video projector, oral presentation	-	-	2
4	Physiology of marginal periodontium	Pc, video projector, oral presentation	-	-	2
5	Epidemiology of periodontal disease	PC, video projector, oral presentation	-	-	2
6	Clinical examination of periodontal patient	PC, video projector, oral presentation	-	-	2
7	Etiopathogenesis of chronic marginal periodontitis. The role of bacterial plaque in the production of periodontal disease	PC, video projector, oral presentation	-	-	2
8	Mechanisms of bacterial pathogenicity in periodontal disease	PC, video projector, oral presentation	-	-	2
9	Immunological mechanisms and periodontal disease	PC, video projector, oral presentation	-	-	2
10	The role of dental tartar in the production of chronic marginal periodontitis	PC, video projector, oral presentation	-	-	2
11	Local factors favoring chronic marginal periodontitis	PC, video projector, oral presentation	-	-	2
12	The role of general factors in the evolution of chronic marginal periodontitis	PC, Video projector, oral presentation	-	-	2
13	Diagnosis of gingival-periodontal diseases	PC, Video projector, oral presentation	-	-	2
14	Classification of diseases of the marginal periodontium	PC, video projector, oral presentation	-	-	2

Bibliography

References:

1. Newman MG, Takei H, Klokkevold PR, Carranza FA. Newman and Carranza's Clinical Periodontology. 13th Edition. Elsevier Health Sciences. 2019

2. Dumitriu H: Parodontologie, Ed. Medicală București, 2009

3. Roman A, Lazăr L, Șurlin P, Stratul ȘI. Parodontologie 1 Noțiuni de bază. Editura Medicală Universitară Iuliu

Hațieganu Cluj-Napoca,

Optional references:

1. Lazăr L, Monea AI. Chiuretajul subgingival în practica ambulatorie de parodontologie. Editura University Press Tg. Mureș, 2009
2. Lazăr L. Elemente de parodontologie clinică. Editura University Press Tg. Mureș, 2015,
3. Newman MG, Takei H, Klokkevold PR, Carranza FA. Newman and Carranza's Clinical Periodontology. 13th Edition. Elsevier Health Sciences. 2019
4. Ionescu E. Manual pentru rezidentiat. Ed. Univ Carol Davila, Bucuresti, 2021

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	.Presentation of the consultation instrumentation, of the manual and ultrasonic scaling instrumentation	Multimedia presentation, practical demonstrations and clinical cases	-	-	3
2	Presentation of instruments for periodontal surgical treatment	Multimedia presentation, practical demonstrations and clinical cases.	-	-	3
3	Presentation of the periodontal file	Multimedia presentation, practical demonstrations and clinical cases.	-	-	3
4	.Determination of periodontal health indices (plaque index, tartar index, PBI, CPITN)	CBL	The students receive the material in time, so they have the possibility to make individual study	-	3
5	Performing specific measurements in periodontal therapy (periodontal pocket depth, attachment loss, tooth mobility).	Multimedia presentation, practical demonstrations and clinical cases	-	-	3
6	Evaluation of the condition of the alveolar bone with the help of retroalveolar radiographs, orthopantomographies	CBL	The students receive the material in time, so they have the possibility to make individual study	-	3
7	Completion of the periodontal file	Multimedia presentation, practical demonstrations and clinical cases	-	-	3
8	Completion of the periodontal file	Multimedia presentation, practical demonstrations and clinical cases	-	-	3
9	Learning the correct methods of manual and ultrasonic scaling	CBL	The students receive the material in time, so they have the possibility to make individual study	-	3
10	Completion of the periodontal file	Multimedia presentation, practical demonstrations and clinical cases	-	-	3
11	Realization of practical treatment included in the minimum scale of practical knowledge - manual and ultrasonic scaling.	Multimedia presentation, practical demonstrations and clinical cases	-	-	3
12	Correct dental brushing techniques. Adjunctive methods of maintaining the oral hygiene.	CBL	The students receive the material in time, so they have the possibility to make individual study	-	3
13	Realisation of practical treatment included in the minimum scale of practical knowledge - manual and ultrasonic scaling.	Multimedia presentation, practical demonstrations and clinical cases	-	-	3
14	Realisation of practical treatment included in the minimum scale of practical knowledge - manual and ultrasonic scaling.	Multimedia presentation, practical demonstrations and clinical cases	-	-	3

Bibliography

Bibliography:

1. Newman MG, Takei H, Klokkevold PR, Carranza FA. Carranza's Clinical Periodontology. 13th Edition. Elsevier Health Sciences. 2019

2. Dumitriu H: Parodontologie, Ed. Medicală București, 2009

Facultative bibliography:

1. Lazăr L, Monea AI. Chiuretajul subgingival în practica ambulatorie de parodontologie. Editura University Press Tg. Mureș, 2009

2. Lazăr L. Elemente de parodontologie clinică. Editura University Press Tg. Mureș, 2015,

3. Roman A, Lazăr L, Șurlin P, Stratul ȘI. Parodontologie 1 Noțiuni de bază. Editura Medicală Universitară Iuliu Hațieganu Cluj-Napoca, 2019

4. Ionescu E. Manual pentru rezidentiat. Ed. Univ. Carol Davila, Bucuresti, 2021

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is corroborated with the need of employers in the fields of health, health management, medical education, drug companies, research in dentistry.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	course attendance, discussions during courses	theoretical questions	10
- practical activities	The practical works attendance, fulfilling the minimum scale of activity. Qualifications obtained during the CBL sessions; The practical works attendance, fulfilling the minimum scale of activity	Average of the grades obtained during CBL; Average of the grades obtained in assessing the criteria of evaluation 20 %	20
Final evaluation			
- theoretical final exam	Final theoretical exam Knowledge of the anatomical elements of the periodontal tissue and the areas with maximum vulnerability. Acquisition of the knowledge necessary for the examination of the periodontal patient and the elaboration of a complete diagnosis of periodontal disease. Test 50%	Written exam, test	50
- practical final exam	Student's ability to properly examine a patient with periodontal disease, to complete a periodontal file, to put a correct diagnosis, to be able to make properly the initial treatment 30 %	Written exam	20

Minimal performance standards:

The accumulation of more than 3 absences on the course, and more than 3 absences on the practical part results in students being forbidden to access the final exam. The motivated absences will be recovered after a schedule established at level of the discipline.

Over 2 unmotivated absences, the recovery will be made for a fee.

- Evaluation during semester:

1. Practical works:

Fulfilling minimum scale of activity: patient examination and completing 1 periodontal file and performing 1 therapeutic activity of non-surgical causative periodontal therapy (scaling).

2. Course:

Theoretical exam

- The final evaluation:

Minimum promotion mark is 5 in both practical and theoretical exams.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Vlasa Alexandru	30 minutes after every course and practical activities

Head of departament

Course coordinator

Practical activities coordinator(s)



1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Removable prosthodontics			
2.2 Course coordinator: Șef I dr Hânțoiu Liana-Georgiana			
2.3 Practical activities coordinator(s): Șef I dr Dobreci Liana-Claudia, Asist dr Berneanu Florentin-Daniel, Asist dr Muică Adrian			
2.4 Year of study: V	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 13/9	3.2 lecture: 3	3.3 practical activities: 10/6
3.4 Total hours in curriculum: 154	3.5 lectures: 42	3.6 practical activities: 112
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 15		
- supplemental documentation at the library, from specialized information portals and in the field: 15		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 0		
- examinations: 2		
- other activities: 0		
3.8 Total hours of individual study: 46		
3.9 Total hours: 200		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
Prior theoretical preparation of the clinical stage to be carried out

6. Specific competencies acquired

6.1 professional competencies: The student should be able to restore the bimaxillary total edentation and some unimaxillary edentations by means of classical prostheses in a form, function and aesthetics acceptable to patients of all ages. He must have the necessary knowledge and experience regarding the design and realization of the prosthetic and prosthetic preparation stages of the total edentation prosthetic field, as well as elements related to the procedures of the dental technician laboratory performed in the process of obtaining total prosthetics. To possess the knowledge necessary for the clinical and paraclinical

examination of total edentation.

The student should be familiar with the potential and limitations of the various clinical and technological dental procedures involved in the prosthetic restorations of the total edentation and be able to explain to the patient the indications and contraindications of the various methods of prosthetic solving of the total edentation (including overimplantation).

6.2 transversal competencies:

The student must be competent to ensure safety at work. He must have knowledge of understanding the importance of her own health and of the impact she may have in pursuing her profession. It must have the power to impose the principles of health and safety at work on other colleagues.

Be competent in recognizing one's own limits and in acknowledging the value of continuous study, self-improvement, and critical thinking in maintaining a high degree of professional competence.

Have the knowledge and understanding necessary for the ethical and moral responsibilities involved in providing dental services to the patient as an individual and to the population level.

Establish a physician-patient relationship that allows him / her to carry out his / her activity at the internship.

Be competent to protect the confidential aspect of patient data.

Be competent to team up with colleagues, teachers and dental technicians.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).

Conservative treatment of dento-periodontal structures.

Diagnosis and interceptive treatment of dentomaxillary anomalies.

Prosthetic restoration of dental arches.

Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.

Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The discipline addresses the problem of prosthetic treatment of total edentation by means of classical total mobile prostheses and with implant support (over-denture).

7.2 Specific objectives:

Student acquiring elements related to clinical and therapeutic aspects of prosthetic treatment of total edentation by mobile prostheses.

Knowledge of the epidemiology and etiology elements of the total edentation, its clinical forms, specific symptoms and complications. Student acquiring the morphology and physiology elements of the total edentulous prosthetic field and the biodynamic elements of the total prostheses, correlated with the diagnostic and therapeutic peculiarities. Transmitting the knowledge necessary for the sequential sequence of the clinical technical and technological stages imposed by the classical prosthesis and the modern prosthetic treatment of the total edentation.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Total Edentation - Concept, Etiology, Symptomatology, Evolution, Complications. Morphological and functional changes of the orofacial system in the total edentation	Oral and multimedia presentation	-	-	3
2	Morphophysiology of the edentulous maxillary and mandibular fields	Oral and multimedia presentation	-	-	3
3	Biomechanics of total prostheses. Principles of Clinical Examination of Total Edentated Patient	Oral and multimedia presentation	-	-	3

4	Impression of the total edentated prosthetic field - general principles, preliminary impression	Oral and multimedia presentation	-	-	3
5	Final impression of the total edentated field: principles, objectives, method and techniques of final impression	Oral and multimedia presentation	-	-	3
6	Determination and recording of intermaxillary relationships in the treatment of total edentation	Oral and multimedia presentation	Test	-	3
7	Selecting and arranging prosthetic teeth. Occlusion for the edentulous patient	Oral and multimedia presentation	-	-	3
8	Clinical try-in appointment	Oral and multimedia presentation	-	-	3
9	Applying total dentures in the oral cavity and adaptation of the patient with dentures	Oral and multimedia presentation	-	-	3
10	Relining and rebasing of complete dentures. Total prosthesis repairs	Oral and multimedia presentation	-	-	3
11	Prosthetic stomatopathies	Oral and multimedia presentation	-	-	3
12	Combination syndrome and implantoprosthetic treatment of total edentation	Oral and multimedia presentation	-	-	3
13	Immediate dentures	Oral and multimedia presentation	-	-	3
14	Unconventional clinical-technical procedures for total prosthesis. Overdenture on implants. Prosthetic rehabilitation of maxillo-facial defects of total edentated patient.	Oral and multimedia presentation	-	-	3

Bibliography

ZARB G., HOBKIRK JA, ECKERT SE, JACOB RF. Prosthodontic treatment for edentulous patients. Complete dentures and implant-supported prostheses, 13th ed, Elsevier 2012, Biblioteca UMFST- IV 2937

8.2 Content of workout, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8

2	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
3	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
4	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
5	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the	-	-	8

	participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	total edentation.			
6	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	CBL	-	8
7	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	CBL	-	8
8	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
9	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the	-	-	6

	of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.			
10	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	CBL	-	2
11	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	CBL	-	8
12	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8

13	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
14	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8
15	Performing the clinical phases of at least a total maxillary prosthesis and total mandibular prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Performing or participating in a total prosthesis relining. Realization of a report based on scientific literature. Patient examination and clinical case presentation	Clinical examination of the total edentulous patient -presentation and practical demonstration of specific clinical maneuvers for the examination of the total edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the total edentation.	-	-	8

Bibliography

Zarb et.al. Prosthodontic treatment for edentulous patients. Elsevier-Mosby, 2013

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is relevant and accordingly with the requirements of the mobile prosthodontic treatment in the dental office

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final

			grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course	Test	20
- practical activities	Semestrial activity (attendance, grades during the semester, fulfillment of practical activity scale)	CBL	10
Final evaluation			
- theoretical final exam	Acquiring theoretical knowledge according to the bibliography and the contents of the university lectures	MCQ Test	40
- practical final exam	Assessment of the student's applied knowledge Paraclinical analysis of study and diagnostic models.	Performing a clinical phase of treatment, or a diagnostic procedure	30
Minimal performance standards: 1. A case presentation, diagnosis and therapeutic plan 2. Treatment of an edentation by total prosthesis 3. Adaptation of the individual tray and acceptable final impression of the edentulous field 4. Paraclinical analysis of study and diagnostic models. 5. Presentation of the report based on the literature 6. Attendance to activities (accumulating a number of unmotivated absences of more than 7 does not allow the student to enter the final exam)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Hănţoiu Liana-Georgiana	30 min după curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Endodontics (2)			
2.2 Course coordinator: Șef I dr Kovács-Ivacson Andrea-Csinszka			
2.3 Practical activities coordinator(s): Șef lucr. Dr. Kovacs-Ivacson Andrea-Csinszka			
2.4 Year of study: V	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 20	3.2 lecture: 4	3.3 practical activities: 16
3.4 Total hours in curriculum: 140	3.5 lectures: 28	3.6 practical activities: 112
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 30		
- supplemental documentation at the library, from specialized information portals and in the field: 15		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 1		
- examinations: 2		
- other activities: 2		
3.8 Total hours of individual study: 60		
3.9 Total hours: 200		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
videoprojector, laptop
5.2 for practical activities:
dental units, slow and high speed pieces, consultation kit, hand instruments, dental materials

6. Specific competencies acquired

6.1 professional competencies:
Acquiring knowledge related to etiology, diagnosis and treatment possibilities in acute and chronic periapical lesions. Knowledge of the materials used in the disinfection of the root canal and of the complementary methods of obtaining by physical means the sterilization of the endodontic space. Emphasis is placed on radiological methods of diagnosis starting from classic to modern. The importance of outbreak disease and the correlation of the state of oral and dental health with the general state of health of the body.
6.2 transversal competencies:
Due to the fact that contemporary medicine ensures the extension of life expectancy in patients with systemic diseases, transplants, prostheses of various types, complex teams are organized with doctors of other specialties to establish the indications for endodontic treatment in the case of root infections.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Learning the diagnostic methodology and treatment techniques in the different forms of inflammatory pulpal diseases

7.2 Specific objectives:

The prophylactic side of the treatment methods applicable in complicated caries is emphasized, based on biological principles, with concrete possibilities for the prophylaxis of outbreak disease and edentation.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Pulp necrosis	Oral presentation	-	-	2
2	Pulp gangrene	Oral presentation	-	-	2
3	Acute apical periodontitis	Oral presentation	-	-	2
4	Chronic apical periodontitis	Oral presentation	-	-	2
5	Root canal preparation	Oral presentation	-	-	2
6	Sterilization of root canal system	Oral presentation	-	-	2
7	Calcium-hydroxide as an intracanal medicine	Oral presentation	-	-	2
8	Treatment of acute apical periodontitis	Oral presentation	-	-	2
9	Treatment of chronic apical periodontitis	Oral presentation	-	-	2
10	Root canal obturation	Oral presentation	-	-	2
11	Gutta-percha injection methods	Oral presentation	-	-	2
12	Radicular resorption	Oral presentation	-	-	2
13	Focal infections	Oral presentation	-	-	2
14	Accidents and complications during root canal treatment	Oral presentation	-	-	2

Bibliography

Castelucci A.: Endodontics, vol. II, Ed. Tridente, 2005

8.2 Content of workout, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Diagnosis and treatment in pulp necrosis	Clinical activity	-	-	8
2	Diagnosis and treatment in pulp gangrena	Clinical activity	-	-	8
3	Diagnosis and treatment in acute apical periodontitis	Clinical activity	-	-	8
4	Interpretation of retroalveolar and panoramic dental radiographs	Clinical activity	-	-	8
5	Diagnosis and treatment in chronic apical periodontitis	Clinical activity	-	-	8
6	Bacteriological examination in the therapy of endodontic infections	Clinical activity	-	-	8
7	Root canal preparation	Clinical activity	-	-	8
8	Determination of the length of root canals	Clinical activity	-	-	8
9	Practical application	Clinical activity	-	-	8
10	Practical application	Clinical activity	-	-	8
11	Practical application	Clinical activity	-	-	8
12	Practical application	Clinical activity	-	-	8
13	Antibiotherapy	Clinical activity	-	-	8
14	Resolving incidents and accidents during endodontic treatment	Clinical activity	-	-	8

Bibliography

Castelucci A.: Endodontics, vol. II, Ed. Tridente, 2005

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

There is a very large number of patients with chronic periapical lesions, and in the absence of treatment they would be condemned to extended edentulousness. Through the acquired knowledge, future doctors will be able to ensure the correct treatment of these injuries, and when necessary, in collaboration with the oro-maxillo-facial surgeon, they will ensure the maintenance of as many teeth as possible on the arch. Chronic apical periodontitis are considered aggravating factors of systemic diseases and their elimination has beneficial effects on the patient's health.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	-	CBL	30
Final evaluation			
- theoretical final exam	-	Test	50
- practical final exam	-	Oral	20
Minimal performance standards: In order to pass the exam both practical activity and theoretical exam grades should be above 5,00			

11. Must seen clinical situation list

Gangrenae
Acute apical periodontitis
Chronic apical periodontitis

12. Clinical / practical abilities

Treatment of simple or complicated gangrene (1);
Pulpectomies (1 mono- and 1 pluriradicular teeth).

13. Appointment timetable (for students)

Şef I dr Kovács-Ivacson Andrea-Csinszka	1 ora dupa fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Professional organisation and legislation			
2.2 Course coordinator: Conf dr Gasparik Andrea-Ildikó			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: VI	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
in accordance with the UMFST and PHHM discipl. regulations
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies:
To be able to understand the concept and legislative aspects of normative acts at EU level
To be able to get involved in making decisions on the legislative framework;
To be familiar with the patient's rights;
To know the legislation specific to the profession of dentist;
6.2 transversal competencies:
To contribute to the professional progress and development;
To get involved in multidisciplinary work;
To participate in solving health problems, as part of the health system, in its area of competence.
Involvement in the development of legislation in the field.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

The aim of the discipline is to give students the basics of legislative and organizational issues of the health system in the field of dentistry.

7.2 Specific objectives:

To be able to analyze a legislative act;
 To identify the place occupied by a dentist within the healthcare providers system;
 To be familiar and apply the rights of patients;
 To know all the aspects related to the practice of dentistry;
 To be familiar with the administrative stages of opening a dental practice.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Legislative acts EU	presentation (multimedia), discussion	-	-	1
2	Legislative acts EU	presentation (multimedia), discussion	-	-	1
3	Practicing of dentistry. Professional organizations (dental associations)	presentation (multimedia), discussion	-	-	1
4	Practicing of dentistry. Professional organizations (dental associations)	presentation (multimedia), discussion	-	-	1
5	Establishing a dental practice	presentation (multimedia), discussion	-	HIV	1
6	Establishing a dental practice	presentation (multimedia), discussion	-	tiredness	1
7	Quality and Patient Safety	presentation (multimedia), discussion	-	HIV	1
8	Quality and Patient Safety	presentation (multimedia), discussion	-	hypertension	1
9	Organization of the health system - providers of dental health services	presentation (multimedia), discussion	-	septicaemia	1
10	Organization of the health system - providers of dental health services	presentation (multimedia), discussion	-	-	1
11	Promoting dental health	discussions, presentation	-	-	1
12	Promoting dental health	presentation (multimedia), discussion	-	pain management	1
13	Test	multiply choice questions	-	-	1
14	Test	multiply choice questions	-	-	1

Bibliography

Electronic lecture notes (Gasparik A.I.)

EU <https://www.cedentists.eu/pdf>

Standards and their guidance, General Dental Council, UK <https://standards.gdc-uk.org/>

ADA (American Dental Association)

<https://www.ada.org/en/about-the-ada/principles-of-ethics-code-of-professional-conduct/preamble>

STEP-UP to USMLE STEP 2 CK, 5th Edition

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Through the knowledge gained, students will be able to adapt to the labor market requirements in the field and to meet the expectations of the community. Beyond the clinical part, a dentist should be familiar, from a legislative point of view, with their rights and obligations, the level of responsibilities. They will be able to deal with possible unexpected situations arising during their professional

activity.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	ability to effectively use and adapt the acquired knowledge in a new / complex contexts	discussions, project based assessment	30
- practical activities	-	-	0
Final evaluation			
- theoretical final exam	the ability to explain and apply concepts, principles and processes	exam. Multiple choice questions test	70
- practical final exam	-	-	0
Minimal performance standards: test performance at least 50%			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Gasparik Andrea-Ildikó

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: M2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dental office management			
2.2 Course coordinator: Conf dr Gasparik Andrea-Ildikó			
2.3 Practical activities coordinator(s): -			
2.4 Year of study: VI	2.5 Semester: 1	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 2	3.2 lecture: 2	3.3 practical activities: 0
3.4 Total hours in curriculum: 14	3.5 lectures: 14	3.6 practical activities: 0
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 12		
- supplemental documentation at the library, from specialized information portals and in the field: 12		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 11		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 36		
3.9 Total hours: 50		
3.10 Credits: 2		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Students will be able to understand - how to apply the principles and functions of management at a dental practice level. - to assess and improve/efficientize the functioning of a dental office. To be aware of the role and place of the dental office as a provider of medical services within the public health system. To apply the decision theory at the level of the dental office or any provider of dental medical services.
6.2 transversal competencies: Acquiring knowledge of Dental office Management discipline, students will be able - to coordinate the activity of a dental office - to efficiently collaborate with other suppliers or partners (IH)

- to ensure a correct coordination of the activity of a DO - to establish collaborations and contracts with other suppliers or Insurance Company/Agencies.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: To have a strategic view and be familiar and able to carry out a strategic planning algorithm. Being aware of how management principles can be applied at the level of a DM office
7.2 Specific objectives: - To be familiar with the basic concepts, theories and functions of management - To be able to apply the stages of decision theory - To be able to perform a SWOT analysis - To set SMART goals - To be familiar with the way a health system is organized, financed and how it functions

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Health management. Key concepts. Theories and functions	Presentation, discussions	-	tiredness	2
2	Management functions applied in DM	Presentation, discussions	-	sleep disturbance	2
3	Strategical planning. SWOT analysis. Setting objectives	TBL	-	tiredness	2
4	Managerial authority and responsibility. Decision analysis in the dental office	Presentation, discussions	-	sleep disturbance	2
5	Human resource management in dental practice	Presentation, discussions	-	tiredness	2
6	Understanding of health care systems. Basic concepts. Key components of a well functioning HS	Presentation, discussions	-	depression	2
7	Test	multiply choice questions	-	tiredness	2

Bibliography

1. Al Gasparik. Electronic course material
2. Lamkin. C. Dental Office Management Cengage Learning 2nd Edition 2014
3. O Hokwerda, J. A. J. Wouters et al Ergonomic requirements for dental equipment. Guidelines and recommendations for designing, constructing and selecting dental equipment.
3. Ira B. Lamster, Kayleigh Eaves. 2011 A Model for Dental Practice in the 21st Century. Am J Public Health.
4. <https://www.slideshare.net/aashnadhingra/dental-practice-management>

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

c

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	1. ability to effectively use and adapt the acquired knowledge in new / complex contexts 2. project based assessment	discussions, project based assessment	30
- practical activities	-	-	0
Final evaluation			

- theoretical final exam	ability of explain and apply concepts, principles and processes	multiply choice questions testing	70
- practical final exam	n	n	0
Minimal performance standards: students will have to reach at least 50% (5/10)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Gasparik Andrea-Ildikó	

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral pathology			
2.2 Course coordinator: Șef I dr Monea Adriana-Maria			
2.3 Practical activities coordinator(s):			
2.4 Year of study: VI	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 6		
- tutorial activities: 2		
- examinations: 4		
- other activities: 2		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: videoprojector, PC
5.2 for practical activities: case presentation

6. Specific competencies acquired

6.1 professional competencies: To recognise different forms of oral lesions in systemic diseases. To know the changes in the oral mucosa and the correct diagnosis of the conditions. To identify cases requiring complex therapy in other medical units (hematological disorders, dermatological or infectious diseases). To apply proper treatment methods indicated in each clinical situation
6.2 transversal competencies: To develop the ability to identify pathological changes and collaborate with other disciplines in establishing the correct treatment plan.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Particular emphasis on diagnosis of the most common conditions that are found in the oral cavity

7.2 Specific objectives:

Epidemiological and histopathological aspects of oral lesions. Specific local and general treatments for these conditions

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Oral biology	oral and ppt presentation	-	-	2
2	Elementary lesions. Histopathological changes of oral mucosa. Plaque induced gingivitis	oral and ppt presentation	TBL	-	2
3	Necrositing ulcerative gingivitis	oral and ppt presentation	-	-	2
4	Specific stomatitis. Oral tuberculosis. Oral syphilis	oral and ppt presentation	-	-	2
5	Viral herpetic infections of oral cavity	oral and ppt presentation	-	-	2
6	Candidal infections of oral cavity	oral and ppt presentation	TBL	-	2
7	Aphta	oral and ppt presentation	-	-	2
8	Keratotic lesions. Lichen planus. Leukoplakia	oral and ppt presentation	-	-	2
9	Hematologic diseases	oral and ppt presentation	-	-	2
10	Acute and chronic leukemia	oral and ppt presentation	-	-	2
11	Anemias	oral and ppt presentation	-	-	2
12	Oral manifestations in AIDS	oral and ppt presentation	-	-	2
13	Tongue disease	oral and ppt presentation	-	-	2
14	Erythema multiformis. Pemphigus	oral and ppt presentation	-	-	2

Bibliography

Brad Neville Douglas D. Damm Carl Allen Angela Chi: Oral and Maxillofacial Pathology 4th Edition, 2015

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Patient examination	PPT presentation, practical part	-	-	2
2	Oral biopsy	PPT presentation, practical part	-	-	2
3	Other complementary diagnosis methods	PPT presentation, practical part	-	-	2
4	Elementary lesions	PPT presentation	-	-	2
5	Bacterial infections	PPT presentation	CBL	-	2
6	Viral infections	PPT presentation	-	-	2
7	Aphta	PPT presentation	-	-	2
8	Fungal infections	PPT presentation	-	-	2
9	Hyperkeratotic lesions	PPT presentation	CBL	-	2
10	Hematologic diseases	PPT presentation	-	-	2

11	Anemia. Leukemia	PPT presentation	-	-	2
12	Oral lesions in AIDS	PPT presentation	-	-	2
13	Tongue lesions	PPT presentation	-	-	2
14	Erythema multiformis. Pemphigus	PPT presentation	-	-	2

Bibliography

Brad Neville Douglas D. Damm Carl Allen Angela Chi: Oral and Maxillofacial Pathology 4th Edition, 2015

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	specific for Oral Pathology	2 x TBL	15
- practical activities	specific for Oral Pathology	2 x CBL	15
Final evaluation			
- theoretical final exam	specific for Oral Pathology	Theoretical exam (multiple choice test)	50
- practical final exam	specific for Oral Pathology	practical exam	20
Minimal performance standards:			
- Minimum criteria for validating the assessments during the semester (in correlation with the Discipline Regulation)			
- Minimum conditions for admission to final examination - recognition of oral mucosal lesions: positive and differential diagnosis criteria, treatment indications			
the minimum conditions required to fulfill the final summative assessment (practical + theoretical examination) - obtaining the 5.00 mark for both the practical and the theoretical examination.			
- Recognition of pathological changes in the buccal mucosa and oral manifestations of serious systemic disorders.			
- Ability to formulate treatment protocols and collaborate with other medical specialties.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Monea Adriana-Maria

Head of department

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Medical and surgical emergencies in dental medicine			
2.2 Course coordinator: Șef I dr Iacob Alina			
2.3 Practical activities coordinator(s): Șef I Dr Alina Iacob, Șef I Dr Petrovan Cecilia, Șef I Dr. Cosarca Adina, Asist Univ Dr Berecki-Temistocle Despina			
2.4 Year of study: VI	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 10	3.2 lecture: 4	3.3 practical activities: 6
3.4 Total hours in curriculum: 70	3.5 lectures: 28	3.6 practical activities: 42
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 18		
- supplemental documentation at the library, from specialized information portals and in the field: 18		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 18		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 55		
3.9 Total hours: 125		
3.10 Credits: 5		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures: Internet access
5.2 for practical activities: Internet access emergency kit

6. Specific competencies acquired

6.1 professional competencies: The students must be able to obtain a correct, complete medical history of patients with different general disorders, to recognize situations that could become possible emergency situations that may occur during dental treatments, to prevent and guide the patient for further specialized health care.
6.2 transversal competencies: Effective collaboration with other specialties for a fair, efficient interdisciplinary treatment.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Prevention and management of various emergency situations dental office.

7.2 Specific objectives:

Preparing students to approach and treat patients with different systemic diseases from dental medicine point of view.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Classification of dental procedures according to general conditions	Oral and multimedia presentation	discussion	oral disorders	2
2	The importance of medical history and general clinical examination for prevention of medical emergency situations	Oral and multimedia presentation	discussion	pre-operative care	2
3	Risk factors for systemic side effects of loco-regional anesthesia	Oral and multimedia presentation	discussion	pre-operative care	2
4	Management of the patient with cardiovascular diseases (part I)	Oral and multimedia presentation	discussion	ischemic heart disease	2
5	Management of the patient with cardiovascular diseases (part II)	Oral and multimedia presentation	discussion	coagulation disease	2
6	Management of the patient with cardiovascular diseases (part III)	Oral and multimedia presentation	discussion	endocarditis	2
7	Management of the patient with endocrine disorders	Oral and multimedia presentation	discussion	diabetes mellitus	2
8	Management of the patient with liver disorders	Oral and multimedia presentation	discussion	chronic liver disease	2
9	Management of the patient with allergic or neuropsychiatric disorders	Oral and multimedia presentation	discussion	allergic disorders	2
10	Management of the patient with infectious disorders	Oral and multimedia presentation	discussion	HIV	2
11	Management of the patient with kidney or lung disorders	Oral and multimedia presentation	discussion	asthma	2
12	Treatment of medical emergencies in the dental office	Oral and multimedia presentation	discussion	shock	2
13	Emergency kit	Oral and multimedia presentation	discussion	drug reactions	2
14	Management of surgical emergencies in dental office	Oral and multimedia presentation	discussion	oral disorders	2

Bibliography

1. Iacob A., Ormenișan A.: Prevenirea și tratamentul urgențelor medicale în cabinetul de medicină dentară, curs pentru studenții anului VI MD, University Press, Tg-Mureș, 2015
2. Naftali Gh., Puskas A.: Prevenirea urgențelor medicale în cabinetele stomatologice. Curs pentru studenți, Litografia UMF Tg-Mures, 2004
3. Voroneanu M., Bucur A., Iordache N., Balan H.: Urgente medico-chirurgicale în cabinetul de medicină dentară. Ghid practic de diagnostic și tratament prespitalicesc, Ed. Medicala. București 2014
4. Scully C., Kalantzis A.: Oxford Handbook of Dental Patient Care, Second edition, Oxford University Press, 2005

8.2 Content of laboratory, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Blood pressure and pulse measurement	examples, discussions	exercises	hypertension	3
2	Exercise of different antibiotic-prophylaxis regimens (recipe)	Case presentation, examples, discussions	exercises	endocarditis	3

3	Determination of blood glucose	Case presentation, examples	discussions	diabetes mellitus	3
4	Intradermal test and interpretation for different specific allergens	Case presentation, examples	discussions	allergic disorders	3
5	Interpretation of laboratory test results	Case presentation, examples	CBL discussions	pre-operative care	3
6	Performing subcutaneous injection	Case presentation, examples	discussions	diabetes mellitus	3
7	Performing intramuscular injection	Case presentation, examples	discussions	epilepsy	3
8	Performing intravenous injection	Case presentation, examples	discussions	cardiorespiratory arrest	3
9	Management of patients with oral anticoagulant therapy	Case presentation, examples	discussions	coagulation disease	3
10	Relevant history of patients with general disorders	Case presentation, examples	discussions	pre-operative care	3
11	Completing medical questionnaires	Case presentation, examples	discussions	pre-operative care	3
12	How to use the content of the emergency kit	Case presentation, examples	CBL discussions	drug reactions	3
13	Use of various drugs from emergency kit	Case presentation, examples	discussions	shock	3
14	Revision, different situations scenario debate	Case presentation, examples	discussions	pre-operative care	3

Bibliography

1. Iacob A., Ormenișan A.: Prevenirea și tratamentul urgențelor medicale în cabinetul de medicină dentară, curs pentru studenții anului VI MD, University Press, Tg-Mureș, 2015
2. Scully C, Kalantzis A.: Oxford Handbook of Dental Patient Care, Second edition, Oxford University Press, 2005

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Each dentist must be able to recognize, prevent and provide basic management for common emergency situations in dental office.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-	-	0
- practical activities	case scenario study	CBL	30
Final evaluation			
- theoretical final exam	According to the specific features of the discipline	Written evaluation - test - multiple choice question	40
- practical final exam	According to the specific features of the discipline	Written evaluation, Multiple choice questions test on a clinical case scenario	30

Minimal performance standards:

minimum grade of 5.0 obtained at the theoretical examination

minimum grade of 5.0 obtained at the practical examination

The presence - mandatory for practical sessions; 20% unmotivated absences are allowed (6 hours Ip = 2 LPs); > 20% unmotivated and unrecovered absences = exam failed

11. Must seen clinical situation list

-

12. Clinical / practical abilities

Students should be able to take a good medical history of the patient, to prevent possible medical emergencies. If they occur, the students must be able to start basic treatment in each situation, call ambulance and send patient to Emergency Unit.

13. Appointment timetable (for students)

Şef I dr Iacob Alina	Pe durata modulului câte 30 de minute după fiecare curs. During the module for 30 minutes after each lecture.

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Periodontology (2)			
2.2 Course coordinator: Șef I dr Benedek Csilla			
2.3 Practical activities coordinator(s): Benedek Csilla, Buka Imola, Vlasa Alexandru, Lazar Luminita			
2.4 Year of study: VI	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4/12	3.2 lecture: /4	3.3 practical activities: 4/8
3.4 Total hours in curriculum: 112	3.5 lectures: 28	3.6 practical activities: 84
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 14		
- supplemental documentation at the library, from specialized information portals and in the field: 14		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 7		
- examinations: 7		
- other activities: 7		
3.8 Total hours of individual study: 63		
3.9 Total hours: 175		
3.10 Credits: 7		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Video projector, computer (PC)
5.2 for practical activities:
Video projector, computer (PC)

6. Specific competencies acquired

6.1 professional competencies:
Knowledge of the methods used in formulating the complete diagnosis of periodontal diseases (clinical, radiological, laboratory examination). Acquisition of methods for evaluating the depth of periodontal pockets and the possibility of medicinal and surgical treatment of different forms of inflammation in the supporting tissues of the tooth. Knowledge of the types of surgery that are part of the complex treatment of these forms of disease.
6.2 transversal competencies:
Formation of interdisciplinary collaboration skills with related medical specialties (microbiology, immunology, histopathology, dento-alveolar surgery) in order to achieve a complex treatment of periodontal disease. The knowledge of the working methodologies in the medium and long term studies regarding the results of the periodontal therapy in different groups of patients.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:

Knowledge of data related to the etiology, pathogenesis and treatment of different forms of periodontal disease, because the dentist cannot avoid the responsibility in examining, treating or advising all patients' periodontal problems.

7.2 Specific objectives:

Acquisition of knowledge regarding the etiology, diagnosis, prognosis and treatment of the periodontal diseases..

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	1.Diagnosis of gingival-periodontal diseases. Classification of the diseases of the marginal periodontium.	Oral and multimedia presentation	-	-	2
2	2.Gingivitis. Clinical forms.	Oral and multimedia presentation	-	-	2
3	3.Periodontitis. Clinical forms.	Oral and multimedia presentation	-	-	2
4	4.The treatment of gingivitis and periodontitis. Initial therapy.	Oral and multimedia presentation	-	-	2
5	5.Systemic anti-infective therapy for periodontal diseases.	Oral and multimedia presentation	-	-	2
6	6.Surgical treatment – subgingival curettage, gingivectomy.	Oral and multimedia presentation	-	-	2
7	7.Surgical treatment – flap surgery, gingival recession coverage methods	Oral and multimedia presentation	-	-	2
8	8.Surgical treatment – mucogingival surgery.	Oral and multimedia presentation	-	-	2
9	9.Surgical treatment – periodontal regeneration and reconstructive surgery	Oral and multimedia presentation	-	-	2
10	10.Surgical treatment – guided tissue regeneration	Oral and multimedia presentation	-	-	2
11	11.Occlusal adjustment.	Oral and multimedia presentation	-	-	2
12	12.Periodontal splinting.	Oral and multimedia presentation	-	-	2
13	13.Treatment schemes in periodontal diseases.	Oral and multimedia presentation	-	-	2
14	14.The maintenance therapy.	Oral and multimedia presentation	-	-	2

Bibliography

Bibliography:

1. Dumitriu H. – Periodontology, Ed. Medicala, Bucuresti, 2009
2. Gera I. – Periodontology, Ed. Semmelweis, Budapest, 2009
3. Newman MG, Takei H, Klokkevold PR, Carranza FA. – Newman and Carranza's Clinical Periodontology, 13th Edition, Elsevier Health Sciences, 2019

Facultative bibliography:

1. Roman A, Lazăr L, Șurlin P, Stratul ȘI. Parodontologie 1 Noțiuni de bază. Editura Medicală Universitară Iuliu Hațieganu Cluj-Napoca, 2019
2. Lazăr L, Monea AI. Chiuretajul subgingival în practica ambulatorie de parodontologie. Editura University Press Tg. Mureș, 2009
3. Lazăr L. Elemente de parodontologie clinică. Editura University Press Tg. Mureș, 2015
4. Ionescu E. Manual pentru rezidentiat. Ed. Univ. Carol Davila, Bucuresti, 2021

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	The algorithm of the diagnosis in periodontal diseases.	Multimedia presentation, practical demonstrations and clinical cases.	-	-	6
2	Completion of periodontal file.	CBL	The students receive the material in time, so they can make individual study	-	6
3	Methods of correct determination of periodontal pocket depth.	Multimedia presentation, practical demonstrations and clinical cases.	-	-	6
4	Methods of evaluation of the clinical attachment loss.	Multimedia presentation, practical demonstrations and clinical cases.	-	-	5
5	The instruments used in subgingival curettage.	CBL	The students receive the material in time, so they can make individual study	-	5
6	Completion of periodontal file.	Multimedia presentation, practical demonstrations and clinical cases.	-	-	7
7	Periodontal surgery instrumentation.	Multimedia presentation, practical demonstrations and clinical cases.	-	-	7
8	The antimicrobial therapy in periodontology.	Multimedia presentation, practical demonstrations and clinical cases.	-	-	6
9	Periodontal emergencies.	CBL	The students receive the material in time, so they can make individual study	-	6
10	Case presentation.	Multimedia presentation, practical demonstrations and clinical cases.	-	-	6
11	Realization of practical maneuvers included in the minimum scale of practical knowledge: - non-surgical causal periodontal therapy.	Multimedia presentation, practical demonstrations and clinical cases.	-	-	6
12	Realization of practical maneuvers included in the minimum scale of practical knowledge: - non-surgical causal periodontal therapy	Multimedia presentation, practical demonstrations and clinical cases.	-	-	6
13	Realization of practical maneuvers included in the minimum scale of practical knowledge: - non-surgical causal periodontal therapy	Multimedia presentation, practical demonstrations and clinical cases.	-	-	6
14	Periodontal splinting	CBL	The students receive the material in time, so they can make individual study	-	6

Bibliography

Bibliography:

1. Dumitriu H. – Periodontology, Ed. Medicala, Bucuresti, 2009
2. Gera I. – Periodontology, Ed. Semmelweis, Budapest, 2009
3. Newman MG, Takei H, Klokkevold PR, Carranza FA. – Newman and Carranza's Clinical Periodontology, 13th Edition, Elsevier Health Sciences, 2019

Facultative bibliography:

1. Roman A, Lazăr L, Șurlin P, Stratul ȘI. Parodontologie 1 Noțiuni de bază. Editura Medicală Universitară Iuliu Hațieganu Cluj-Napoca, 2019
2. Lazăr L, Monea AI. Chiuretajul subgingival în practica ambulatorie de parodontologie. Editura University Press Tg. Mureș, 2009
3. Lazăr L. Elemente de parodontologie clinică. Editura University Press Tg. Mureș, 2015
4. Ionescu E. Manual pentru rezidentiat. Ed. Univ. Carol Davila, Bucuresti, 2021

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The content of the discipline is corroborated with the need of employers in the fields of health, health management, medical education, drug companies, research in dental medicine.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Course attendance, grades obtained on the tests during the TBL courses	Average of the grades obtained in assessing the criteria of evaluation	10
- practical activities	The practical works attendance, fulfilling the minimum scale of activity.	Average of the grades obtained in assessing the criteria of evaluation	20
	Qualifications obtained during the CBL sessions	Average of the grades obtained during CBL	
Final evaluation			
- theoretical final exam	Acquiring knowledge required to develop a complete diagnosis by covering all stages of the clinical cases of the gingival and periodontal disease patient. The knowledge of the treatment schemes in different types of periodontal and gingival diseases.	Test	50
- practical final exam	Student's ability to properly examine a patient with periodontal disease, to complete a periodontal file, to put a correct diagnosis, to be able to make properly the initial treatment	Written evaluation	20

Minimal performance standards:

- The accumulation of more than 3 absences on the course, and more than 3 absences on the practical part results in students being forbidden to access the final exam. The motivated absences will be recovered after a schedule established at level of the discipline.

- Evaluation during semester:

1. Practical works:

Fulfilling minimum scale of activity: patient examination and completing 2 periodontal files and performing 2 maneuvers of non-surgical causative periodontal therapy.

2. Course:

In case of not attending the TBL sessions, note 1 will be granted; there is no possibility to repeat this assessment, but it will still be allowed to take the final exam. In case of absence at the TBL sessions for extremely justified reasons, the student has the possibility to draw up a report from the respective topic.

- The final evaluation:

Minimum promotion mark is 5 in both practical and theoretical exams.

11. Must seen clinical situation list

- MUST SEEN CLINICAL SITUATIONS LIST:

1. Chronic gingivitis (simple, not complicated) – plaque induced
2. Hyperplastic gingivitis (plaque induced)
3. Gingivitis related with physiological conditions
4. Gingivitis related with systemic diseases (diabetes, haematological disorders)
5. Medicine induced hyperplastic gingivitis
6. Acute necrotizing ulcerative gingivitis and gingivostomatitis
7. Primary herpetic gingivitis and gingivostomatitis
8. Recurrent aphthous gingivitis and gingivostomatitis
9. Gingivitis and gingivostomatitis of fungal origin
10. Chronic periodontitis
11. Localized aggressive periodontitis
12. Generalized aggressive periodontitis
13. Acute necrotizing ulcerative periodontitis
14. Periodontal abscess

12. Clinical / practical abilities

To recognize the previously listed diseases

13. Appointment timetable (for students)

Şef I dr Benedek Csilla

Marti 10-12

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Removable prosthodontics			
2.2 Course coordinator: Șef I dr Dobreci Liana-Claudia			
2.3 Practical activities coordinator(s): Șef I dr Hânțoiu Liana-Georgiana, Asist dr Berneanu Florentin-Daniel			
2.4 Year of study: VI	2.5 Semester: 1	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12/8	3.2 lecture: 2	3.3 practical activities: 10/6
3.4 Total hours in curriculum: 140	3.5 lectures: 28	3.6 practical activities: 112
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 20		
- supplemental documentation at the library, from specialized information portals and in the field: 15		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 14		
- tutorial activities: 1		
- examinations: 5		
- other activities: 5		
3.8 Total hours of individual study: 60		
3.9 Total hours: 200		
3.10 Credits: 8		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
Pregătirea teoretică a etapei clinice care trebuie realizată la stagiul.

6. Specific competencies acquired

6.1 professional competencies:
The student should be able to restore the extended partial edentulism by means of classical prostheses in a form, function and aesthetics acceptable to patients of all ages. He must have the necessary knowledge and experience regarding the design and realisation of the prosthetic plan and prosthetic preparation stages of the partial edentulous prosthetic field, as well as elements related to the procedures of the dental technician laboratory performed in the process of obtaining partial prosthesis. To possess the knowledge necessary for the clinical and paraclinical examination of partial edentulism. The student should be familiar with the potential and limitations of the various clinical and technological dental procedures involved in the prosthetic restorations of the partial edentulism and be able to explain to the patient the indications and contraindications of the various methods of prosthetic solving of the partial edentulism (including removable partial dentures and implantat over

dentures).
6.2 transversal competencies: The student must be competent to ensure safety at work. He must have knowledge of understanding the importance of his own health and of the impact he may have in pursuing his profession. It must have the power to impose the principles of health and safety at work on other colleagues. Be competent in recognizing one's own limits and in acknowledging the value of continuous study, self-improvement, and critical thinking in maintaining a high degree of professional competence. Have the knowledge and understanding necessary for the ethical and moral responsibilities involved in providing dental services to the patient as an individual and to the population level. Establish a physician-patient relationship that allows him / her to carry out his / her activity at the internship. Be competent to protect the confidential aspect of patient data. Be competent to team up with colleagues, teachers and dental technicians.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
The discipline addresses the problem of prosthetic treatment of partial edentulism by means of classical acrylic mobile prostheses and removable partial dentures.
7.2 Specific objectives:
Student acquiring elements related to clinical and therapeutic aspects of prosthetic treatment of partial edentulism by removable prostheses. Knowledge of the epidemiology and etiology elements of the partial edentulism, its clinical forms, specific symptoms and complications. Student acquiring the morphology and physiology elements of the partial edentulous prosthetic field and the biodynamic elements of the partial prostheses, correlated with the diagnostic and therapeutic peculiarities. Transmitting the knowledge necessary for the sequence of the clinical and technological stages imposed by the classical partial acrylic prosthesis and the modern removable prosthetic treatment of the partial edentulism.

8.1 Content of lecture, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Partial edentulism: concept, ethology, clinical forms, classification, symptoms and complications.	Oral and multimedia presentations.	-	-	2
2	Partial edentulous prosthetic field: particularities of dento-periodontal support and muco-periosteal support, positive and negative biological indices.	Oral and multimedia presentations.	-	-	2
3	Indications of removable partial prosthetic treatment, clinical examination, methods for surveying partial edentulous field.	Oral and multimedia presentations.	-	-	2
4	Unspecific and specific pre prosthetic treatment using partial acrylic prosthesis and removable partial dentures.	Oral and multimedia presentations.	-	-	2
5	Acrylic partial prosthesis: concept, classifications, composing elements, clinical and technical phases in acrylic partial prosthesis fabrication.	Oral and multimedia presentations.	-	-	2
6	Composing elements of removable partial dentures: principal connectors, secondary connectors, means of retention, support and stabilisation, prosthetic saddles.	Oral and multimedia presentations.	-	-	2
7	Retention, support and stabilisation means for partial dentures. Wire clasps, metal clasps, mixed clasps. Clasp Retained removable partial dentures.	Oral and multimedia presentations.	-	-	2
8	Rigid mixed support and articulated support in removable partial dentures. Advanced retention and support auxiliaries for removable partial dentures: attachments and double crown systems.	Oral and multimedia presentations.	-	-	2

9	Biomechanics of removable partial dentures.	Oral and multimedia presentations.	-	-	2
10	Impression of partial edentulous field for removable partial denture fabrication.	Oral and multimedia presentations.	-	-	2
11	Inter-maxillary relation in a partial edentulous field. Establishing occlusal relationships.	Oral and multimedia presentations.	-	-	2
12	Initial placement and adjustments of removable partial denture.	Oral and multimedia presentations.	-	-	2
13	Maintenance and post insertion problems of removable partial dentures.	Oral and multimedia presentations.	-	-	2
14	Re-establishing normal stomatognathic function in partial edentulous patients.	Oral and multimedia presentations.	-	-	2

Bibliography

Şakar Olkay. Removable Partial Dentures. A Practitioner s Manual. Springer International Switzerland, 2016

8.2 Content of workout, semester 1

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	10
2	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	10
3	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	10
4	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the	-	-	10

	Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.			
5	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	10
6	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	10
7	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	10
8	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	6
9	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the	-	-	6

	presentation.	trainee leader in the topic of the partial edentation.			
10	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	6
11	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	6
12	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	6
13	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	6
14	Performing the clinical phases of at least a partial prosthesis. Preliminary impression. Try-in and adaptation of the individual tray. Final impression. Determination and recording of the intermaxillary relationship. Try-in appointment and insertion of the prosthesis. Patient examination and clinical case presentation.	Clinical examination of the partial edentulous patient -presentation and practical demonstration of specific clinical manoeuvres for the examination of the partial edentulous patient. Before completing the clinical phase, the student is required to study the characteristics of the phase and is interviewed by the trainee manager. Presentation by students in front of the group of a report established by the trainee leader in the topic of the partial edentation.	-	-	6

Bibliography

Şakar Olkay. Removable Partial Dentures. A Practitioner s Manual. Springer International Switzerland, 2016

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects of the course	Test	15
- practical activities	Semestrial activity (attendance, grades during the semester, fulfillment of practical activity scale)	CBL	15
Final evaluation			
- theoretical final exam	Acquiring theoretical knowledge according to the bibliography and the contents of the university lectures	MCQ	40
- practical final exam	Assessment of the student's applied knowledge Paraclinical analysis of study and diagnostic models.	Performing a clinical phase of treatment, or a diagnostic procedure	30
Minimal performance standards: A case presentation, diagnosis and therapeutic plan Treatment of an partial edentation by partial prosthesis, participation in a clinical phase: adaptation of the individual tray final impression of the partial edentulous field, establishing the occlusal relationship. Paraclinical analysis of study and diagnostic models. Presentation of the report based on the literature Attendance to activities (accumulating a number of unmotivated absences of more than 7 does not allow the student to enter the final exam)			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Dobreci Liana-Claudia	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral and maxillo-facial surgery (2)			
2.2 Course coordinator: Șef I dr Coșarcă Adina-Simona			
2.3 Practical activities coordinator(s): Sef. Lucrari Dr. Cosarca Adina, Sef. Lucrari Dr. Petrovan Cecilia, Sef. Lucrari Dr. Iacob Alina, Sef. Lucrari Dr.Szava Daniel, Asist Dr. Bereczki Temistocle Despina, Asist Drd. GoluVlad, Asist Drd. Veres Szidonia, Asist Drd. Grigore Vlad			
2.4 Year of study: VI	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 8	3.2 lecture: 4	3.3 practical activities: 4
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 31		
- supplemental documentation at the library, from specialized information portals and in the field: 31		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 31		
- tutorial activities: 0		
- examinations: 1		
- other activities: 0		
3.8 Total hours of individual study: 94		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
-
5.2 for practical activities:
-

6. Specific competencies acquired

6.1 professional competencies: Description of concepts, theories and fundamental notions regarding the appearance of tumors, the signs and symptoms characteristic of each disease, important for the orientation of clinical diagnosis. Identification of resuscitation maneuvers in first aid conditions. Correct interpretation of clinical and paraclinical signs, symptoms in order to develop a presumptive diagnosis. The use of therapeutic resources to formulate the treatment plan as well as the correct interpretation of clinical and paraclinical data. The application of the acquired clinical techniques and knowledge to be integrated with the paraclinical data with the aim of establishing the positive, differential diagnosis, as well as establishing the prognosis. Realization of a treatment plan in accordance with the stage of the disease and its individualized adaptation to the particularities of the patient. Finally, the correct

performance of the complete and complex clinical examination, which allows the recognition of benign and malignant oral and maxillofacial lesions as well as the therapeutic attitude in these cases, in order to correctly guide patients in surgical services where they are treated.
6.2 transversal competencies: Identification of the objectives to be achieved, the available resources, the conditions for their completion, work stages, working times, related risks. Identifying roles and responsibilities in a multidisciplinary team and applying communication techniques and effective work within the team and in relation to the patient. Effective use of communication resources and assisted professional training. Knowing and respecting the principles of safety at work, protection of work and the individual.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: 7.1 General objective The correct attitude of the dentist towards premalignant lesions, respectively towards benign and malignant tumoral lesions in the oro-maxillo-facial sphere, salivary gland pathology, TMJ pathology, complex dento-maxillary anomalies and congenital labio-maxillo-palatine clefts, that appear on the face and oral cavity.
7.2 Specific objectives: Carrying out the anamnesis, the complete and correct clinical examination as well as some basic diagnostic procedures, requesting the appropriate complementary examinations, formulating a positive and differential diagnosis. Realization of an individualized therapeutic plan and the performance of basic therapeutic procedures, including those aimed at qualified first aid. Familiarization of students with some precancerous conditions and benign, malignant conditions encountered in the oro-maxillo-facial sphere that they may encounter in dental practice. The therapeutic attitude in the dental office towards the oncological patient and the drug treatments that could complicate the dental treatments.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Cysts and soft tissue fistulae	Oral presentation + multimedia, discussions	-	-	2
2	Benigne tumors of the face and mouth	Oral presentation + multimedia, discussions	-	-	2
3	Nonodontogenic benign tumors of the jaws	Oral presentation + multimedia, discussions	-	-	2
4	Benign Maxillary odontogenic tumors	Oral presentation + multimedia, discussions	-	-	2
5	Precancerous lesions in oro-maxillo-facial territory	Oral presentation + multimedia, discussions	-	-	2
6	Etio-pathogenesis of cancers in the oro-maxillo-facial area Oral presentation + multimedia, discussions	Oral presentation + multimedia, discussions	-	-	2
7	Paraclinic examination for the malignant tumors of the maxillo-facial area	Oral presentation + multimedia, discussions	-	-	2
8	Malignant tumors of the soft tissue located in the maxillo facial area-1	Oral presentation + multimedia, discussions	-	-	2
9	Malignant tumors of the soft tissue located in the maxillo facial area-2	Oral presentation + multimedia, discussions	-	-	2

10	Maxillary malignant tumors	Oral presentation + multimedia, discussions	-	-	2
11	Salivary glands pathology	Oral presentation + multimedia, discussions	-	-	2
12	TMJ Pathology	Oral presentation + multimedia, discussions	-	-	2
13	Congenital labio-maxilo-palatine cleft - Etiopathogenesis, clinical aspects and surgical treatment in multidisciplinary therapy	Oral presentation + multimedia, discussions	-	-	2
14	Complex congenital malformations. Surgical orthognatic treatment	Oral presentation + multimedia, discussions	-	-	2

Bibliography

1. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 și 2, Editura 2009 Q Med Publishing București
2. Textbook of Oral and Maxillofacial Surgery, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD.
3. Principles of oral and maxillo facial surgery, Six edition, UJ MOORE

8.2 Content of workout, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Soft tissue cyst and tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
2	Benigne tumors of the face and mouth	Oral presentation, discussion, power point presentation, case presentation	-	-	2
3	Benigne tumors of the jaws nonodontogenic	Oral presentation, discussion, power point presentation, case presentation	-	-	2
4	Maxillary odontogenic tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
5	Premalignant lessions	Oral presentation, discussion, power point presentation, case presentation	-	-	2
6	OMF soft tissue malignant tumors	Oral presentation, discussion, power point presentation, case presentation	CBL 1	-	2
7	OMF soft tissue malignant tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
8	OMF soft tissue malignant tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
9	OMF soft tissue malignant tumors	Oral presentation, discussion, power point presentation, case presentation	-	-	2
10	Salivary glands pathology	Oral presentation, discussion, power point presentation, case presentation	-	-	2
11	TMJ pathology	Oral presentation, discussion, power point presentation, case presentation	*	-	2
12	Clefts	Oral presentation, discussion, power point presentation, case presentation	CBL2	-	2
13	Dentomaxillary anomalies	Oral presentation, discussion, power point presentation, case presentation	-	-	2
14	Revision	Oral presentation, discussion, power point presentation, case presentation	-	-	2

Bibliography

1. Bucur A., Navarro C.V., Lowry J., Acero J.: Compendiu de chirurgie oro-maxilo-facială, vol. 1 și 2, Editura 2009 Q Med Publishing București
2. Textbook of Oral and Maxillofacial Surgery, JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD.
3. Principles of oral and maxillo facial surgery, Six edition,

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-At the end of the sixth year, students must recognize premalignant lesions, namely benign and malignant oral and maxillofacial tumors, as well as the therapeutic attitude in these cases, in order to correctly guide patients in

surgical services where they are treated. To make a preliminary diagnosis in patients with pathology of the salivary glands, the temporomandibular joint, with dentomaxillary anomalies and congenital labio-maxillo-palatine clefts and refer them to the Oro-Maxillo-Facial Surgery service.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	-According to the department of Oral and Maxillofacial Surgery	-	0
- practical activities	According to the department of Oral and Maxillofacial Surgery	CBL	30
Final evaluation			
- theoretical final exam	Theoretical final exam According to the department of Oral and Maxillofacial Surgery Written evaluation / test 40%	Written evaluation / test	40
- practical final exam	According to the department of Oral and Maxillofacial Surgery - Verification	Oral /written revision on pathology studied in the course of the semester	30
Minimal performance standards: Carrying out the anamnesis, the complete and correct clinical examination - the recognition and careful examination of areas of high oncological risk, the establishment of basic diagnoses, the request for appropriate complementary examinations, the formulation of a positive and differential diagnosis. Creating an individualized therapeutic plan and performing basic therapeutic procedures, including those aimed at qualified first aid. Attendance to lectures and practical activities of the discipline is mandatory. Unexcused absences from classes will not give the student the right to participate in the semester examination session. - 20% of motivated absences can be recuperated according to the decision of the Course/Practical activities lecturer - The grade for written test – minimum 5; less than 5 = failed exam; - The grade for semestrial activities – minimum 5; less than 5 = failed exam; - Final grade – minimum 5; less than 5 = failed exam.			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Coşarcă Adina-Simona	15 minutes after each course

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Orthodontics (2)			
2.2 Course coordinator: Conf dr Pop Silvia-Izabella			
2.3 Practical activities coordinator(s): Sef lucrari El Saafim Mahmoud			
2.4 Year of study: VI	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 22		
- supplemental documentation at the library, from specialized information portals and in the field: 22		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 21		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: orthodontic diagnosis and therapeutical goals
4.2 competency: Basic knowledge of static and dynamic occlusion, cardiology, and dental morphology

5. Conditions

5.1 for lectures: Video projector, PC, flipchart
5.2 for practical activities: Treatment halls, dental units, negatoscope

6. Specific competencies acquired

6.1 professional competencies: Elaboration of a complex and individualized treatment plan by clinical examination, complementary examinations (model analysis, radiography examination (OPG and teleradiography), photostatic exam, static and dynamic occlusion examination, anthropometric measurements) Orthodontic appliances: classification, components, biomechanical principles, indications and contraindications
6.2 transversal competencies: Orthodontic appliance use in different malocclusions. Advantages and disadvantages of a specific appliance. Biomechanical principles of appliance activation. Early identification of serious skeletal abnormalities, with harmony of facial harmony and orientation towards specialist surgery. Effective use of information sources, communication and training resources both in Romanian, Hungarian and in

an international language, in order to elaborate and present a specialized work;
Identifying objectives, work phases, available resources, risk factors in targeted work

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
Conservative treatment of dento-periodontal structures.
Diagnosis and interceptive treatment of dentomaxillary anomalies.
Prosthetic restoration of dental arches.
Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective:
Establish complex orthodontic diagnosis and identification of all treatment goals. Indication of a specific orthodontic appliance according to the identified malocclusion.

7.2 Specific objectives:
Orthodontic appliance use in different malocclusions. Advantages and disadvantages of a specific appliance.
Biomechanical principles of appliance activation.
Clinical and therapeutic particularities of orthodontic malocclusions.
Knowing the optimal moment to establish an orthodontic treatment;
Designing a complex orthodontic treatment plan depending on the child's age and general health, with an emphasis on the nature of the anomaly.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Classification of orthodontic appliances	Oral, multimedia presentation	-	-	2
2	Removable orthodontic appliances. The acrylic basis, clasps, acrylic splints	Oral, multimedia presentation	-	-	2
3	Removable orthodontic appliances. Active elements: springs, orthodontic screw	Oral, multimedia presentation	-	-	2
4	Removable orthodontic appliances: functional elements. Types of appliances. Appliance wearing.	TBL	-	-	2
5	Classic functional orthodontic appliances. The principle of the inclined plane. Activator - monobloc. Indications and contraindications	Oral, multimedia presentation	-	-	2
6	Modern functional orthodontic appliances. The Frankel appliance. Balters bionator	Oral, multimedia presentation	-	-	2
7	Passive orthodontic appliances. Removable and fixed space maintainers.	TBL	-	-	2
8	Fixed orthodontic appliances. Advantages, actions, and indications. Orthodontic bands, tubes, ligatures, and brackets.	Oral, multimedia presentation	-	-	2
9	Fixed orthodontic appliances. Wires: selection and action. Elastics: types of elastics	Oral, multimedia presentation	-	-	2
10	Fixed orthodontic appliances. Anchorage control: transpalatal arch - Goshgarian, lingual arch, Quad helix, Nance appliance	Oral, multimedia presentation	-	-	2
11	Intra-extraoral orthodontic devices. Headgear, Delaire mask	Oral, multimedia presentation	-	-	2
12	Rapid palatal expansion. Types of devices and actions	Oral, multimedia presentation	-	-	2
13	Relapse after orthodontic treatment. Cause and prevention. Retainers	Oral, multimedia presentation	-	-	2
14	Orthodontic management of patients with LMP clefts. Impression taking and usable appliances	Oral, multimedia presentation	-	-	2

Bibliography

Bibliography

1. Mártha Krisztina, Cristina Bică: OrthoAtlas, Ed. University Press Tg. Mureș, 2015, ISBN: 978-973-169-329-3
2. Păcurar Mariana : Aparatura ortodontica functionala, de la clasic la modern, Editura University Press, Tg.Mures, 2007. 2. Păcurar Mariana ,Irina Zetu: Introducere în tehnica arcului drept, Vol.2, Editura Lyra, Tg. Mureș, 2003.
3. Păcurar Mariana, Bud Eugen, Eșian Daniela, Chibelea Manuela: Ancorajul în ortodonție. Ed.University Press,

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Monomaxilar and bimaxillary static examination on casts. Resume	Practical demonstration, individual work	-	-	4
2	Complementary orthodontic examination. Resume.	Practical demonstration, individual work	-	-	4
3	Design of removable orthodontic appliances	Practical demonstration, individual work	-	-	4
4	Section possibilities of the basis of removable orthodontic appliances	Case-based learning	-	-	4
5	Working bite determination: indirect method. Demonstration	Practical demonstration, individual work	-	-	4
6	Clasps manufacturing on work casts. Practical demonstration.	Practical demonstration, individual work	-	-	4
7	Springs manufacturing on work casts. Practical demonstration	Practical demonstration, individual work	-	-	4
8	Activation of inclined planes on functional appliances. Demonstration	Practical demonstration, individual work	-	-	4
9	Functional components manufacturing on working casts.	Case-based learning	-	-	4
10	Orthodontic chart. Demonstration of direct bonding technique	Practical demonstration, individual work	-	-	4
11	Fixed appliance control. Demonstration	Practical demonstration, individual work	-	-	4
12	Anchorage improving devices: Quad helix, lip-bumper, Nance appliance	Practical demonstration, individual work	-	-	4
13	Interceptive orthodontics: trainers and labial plate.	Case-based learning	-	-	4
14	Case presentation	Practical demonstration, individual work	-	-	4

Bibliography

1. Martha Krisztina, Bică Cristina: Ortho-Atlas, Ed. University Press Tg.Mureș, 2015.
2. Păcurar Mariana, Bud Eugen, Eșian Daniela, Chibelea Manuela: Ancorajul în ortodonție. Ed. University Press, UMF Tg.Mureș, 2015
3. Pop Silvia Izabella, Bratu Dana Cristina, Păcurar Mariana: Noțiuni de biomecanică în tratamentul ortodontic fix, Editura University Press, Tg.Mureș, 2015
4. Stanciu : Ortodonție și Ortopedie dento-facială, Ed. Medicală, București 2009.

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

-

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	TBL	Average of the two TBL sessions	15
- practical activities	CBL	Average of the 3 CBL modules	25
Final evaluation			
- theoretical final exam	Final test	Theoretical test	40
- practical final exam	Practical exam	Practical exam	20

Minimal performance standards:

Minimum bar for practical works during the semester, which condition the participation in the practical exam in the session:

Case presentation (complex orthodontic diagnosis) 2

Removable appliances (design of an orthodontic plate) 2

Making the orthodontic plate anchor elements - Stahl clasp (demonstration) 1

Making the active elements of the orthodontic plate - auxiliary springs (demonstration) 2
 Functional devices. Corrected occlusion on model 2
 Fixed orthodontic appliances: bonding (demonstration) 1
 Fixed orthodontic appliances: adapting bands on study cast (demonstration) 2
 Fixed orthodontic appliances: arc ligature on Typodont 1
 Fixed orthodontic appliances: bending arches 2
 Anchorage auxiliaries: adapting a lingual / transpalatal arch to the study model (demonstration) 1
 Preparation of the orthodontic treatment sheet 1
 Preparation of the Laboratory Sheet 1
 Repairing a Plate in the Cabinet (Demonstration) 1
 Preparing the License 1

11. Must seen clinical situation list

-

12. Clinical / practical abilities

Minimum bar for practical works during the semester, which condition the participation in the practical exam in the session:
 Case presentation (complex orthodontic diagnosis) 2
 Removable appliances (design of an orthodontic plate) 2
 Making the orthodontic plate anchor elements - Stahl clasp (demonstration) 1
 Making the active elements of the orthodontic plate - auxiliary springs (demonstration) 2
 Functional devices. Corrected occlusion on model 2
 Fixed orthodontic appliances: bonding (demonstration) 1
 Fixed orthodontic appliances: adapting bands on study cast (demonstration) 2
 Fixed orthodontic appliances: arc ligature on Typodont 1
 Fixed orthodontic appliances: bending arches 2
 Anchorage auxiliaries: adapting a lingual / transpalatal arch to the study model (demonstration) 1
 Preparation of the orthodontic treatment sheet 1
 Preparation of the Laboratory Sheet 1
 Repairing a Plate in the Cabinet (Demonstration) 1
 Preparing the License 1

13. Appointment timetable (for students)

Conf dr Pop Silvia-Izabella	marti 10-12

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Dentofacial cosmetics			
2.2 Course coordinator: Șef I dr Stoica Alexandra-Mihaela			
2.3 Practical activities coordinator(s): Sef.Lucr Dr Stoica Alexandra			
2.4 Year of study: VI	2.5 Semester: 2	2.6 Type of evaluation: C	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 6	3.2 lecture: 2	3.3 practical activities: 4
3.4 Total hours in curriculum: 42	3.5 lectures: 14	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 19		
- supplemental documentation at the library, from specialized information portals and in the field: 19		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 19		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 58		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Sala, videoprojector, laptop
5.2 for practical activities:
Clinica tratament cosmetica dentara, unituri dentare si consumabilele aferente

6. Specific competencies acquired

6.1 professional competencies:
Elaborarea planului de tratament respectând principiile odontoterapiei cosmetice, aplicate atât individual, la nivelul fiecărui dinte, cât și general, la nivelul arcadelor dentare. Cunoașterea modului de aplicare al caracteristicilor culorii, valabil atât pentru structurile dentare cât și pentru materialele compozite folosite în reastaurarea dentară directă. Dobândirea cunoștințelor necesare realizării albirii dinților vitali și a dinților tratați endodontic.
6.2 transversal competencies:
Utilizarea examinării fotografice și a metodelor moderne digitale de vizualizare a imaginii estetice finale post-tratament, pentru o abordare complexă a planurilor de tratament cosmetico-dentare.

6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s).
 Conservative treatment of dento-periodontal structures.
 Diagnosis and interceptive treatment of dentomaxillary anomalies.
 Prosthetic restoration of dental arches.
 Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions.
 Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Obiectivul general: Deși estetica dentară continuă să se dezvolte pe toate direcțiile medicinei dentare, în cadrul cursului am dorit să ne concentrăm asupra tratamentelor cosmetice odontale ale dinților vitali și a celor tratați endodontic
7.2 Specific objectives: Obiective specifice: Studentii își însușesc date privind conceptul de bază al esteticii dentare, elaborarea planului de tratament, abordarea și corectarea leziunilor dentare necarioase și carioase utilizând materiale compozite, dobândesc informații legate de posibilitățile de reconturare estetică a dinților frontali și legate de tehnici de albire dentară.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Conceptul de estetică dentară. Elaborarea planului de tratament.	Prezentare orală și multimedia.	-	-	2
2	Caracteristicile optice ale țesuturilor dentare dure.	Prezentare orală și multimedia.	-	-	2
3	Leziuni dentare necarioase.	Prezentare orală și multimedia.	-	-	2
4	Restaurări odontale directe cu materiale compozite.	Prezentare orală și multimedia.	-	-	2
5	Reconturarea estetică a dinților.	Prezentare orală și multimedia.	TBL	-	2
6	Principii de bază în tehnicile de albire dentară.	Prezentare orală și multimedia.	-	-	2
7	Aplicarea tehnicilor cosmetice în refacerea estetică a dinților tratați endodontic.	Prezentare orală și multimedia.	-	-	2

Bibliography

Bibliografie

1. Monica Monea, Pop Mihai: Odontoterapie și elemente de estetică dentară, curs litografiat, UMF Tg.Mureș, 2015
2. Goldstein R.: Esthetics in Dentistry. B.C.Decker Inc. Hamilton, London, 1998. 1. George Freedman: Contemporary esthetic dentistry. Elsevier.2010
3. N Wilson: Esthetic Dentistry.2015
4. D Marrisoni: Precision in dental esthetics.2007
5. Nairn H. F. Wilson: Essentials of Esthetic Dentistry Principles and Practice of Esthetic Dentistry.2015

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Examinarea pacientului. Stabilirea diagnosticului și realizarea planului de tratament.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4
2	Examinarea țesuturilor dure dentare. Utilizarea magnificației pentru evaluarea smalțului și a dentinei.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4
3	Efectuarea restaurărilor odontale directe la grupul dinților frontali.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4
4	Efectuarea restaurărilor odontale directe la grupul dinților laterali	Prezentări multimedia, cazuri clinice, demonstrații practice.	CBL	-	4
5	Tehnici de albire a dinților vitali. Albirea internă a dinților devitali.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4
6	Reconturarea estetică a obturațiilor de compozit.	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4

7	Refacerea unghiurilor și a marginilor incizale cu ajutorul materialelor compozite	Prezentări multimedia, cazuri clinice, demonstrații practice.	-	-	4
Bibliography Bibliografie 1.Monica Monea, Pop Mihai: Odontoterapie și elemente de estetică dentară, curs litografiat, UMF Tg.Mureș, 2015 2. Goldstein R.: Esthetics in Dentistry. B.C.Decker Inc. Hamilton, London, 1998. 3.N Wilson: Esthetic Dentistry.2015 4.D Marrisoni: Precision in dental esthetics.2007 5.Nairn H. F. Wilson:Essentials of Esthetic Dentistry Principles and Practice of Esthetic Dentistry.2015					

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

Conținutul disciplinei este coroborat cu necesitatea angajatorilor din domeniile de sănătate, management sanitar, învățământ medical, firme de produse stomatologice, cercetare în medicină dentară

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	În funcție de specificul disciplinei.	TBL	15
- practical activities	În funcție de specificul disciplinei.	CBL	15
Final evaluation			
- theoretical final exam	În funcție de specificul disciplinei	Test grilă și redacțional	50
- practical final exam	În funcție de specificul disciplinei	Realizarea unei obturații frontale fizionomice - practic	20
Minimal performance standards: 5.00			

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Șef I dr Stoica Alexandra-Mihaela	Luni 12:00-14:00 Vineri 12:00-14:00

Head of departament

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD2
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Oral rehabilitation			
2.2 Course coordinator: Conf dr Bechir Edwin-Sever			
2.3 Practical activities coordinator(s): Conf dr Bechir Edwin-Sever			
2.4 Year of study: VI	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 4	3.2 lecture: 2	3.3 practical activities: 2
3.4 Total hours in curriculum: 56	3.5 lectures: 28	3.6 practical activities: 28
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 10		
- supplemental documentation at the library, from specialized information portals and in the field: 10		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 10		
- tutorial activities: 0		
- examinations: 6		
- other activities: 8		
3.8 Total hours of individual study: 44		
3.9 Total hours: 100		
3.10 Credits: 4		

4. Prerequisites (where applicable)

4.1 curricular:
-
4.2 competency:
-

5. Conditions

5.1 for lectures:
Multimedia Equipment
5.2 for practical activities:
Multimedia Equipment

6. Specific competencies acquired

6.1 professional competencies:
Carrying out a complete and complex clinical examination of the patient.
The ability to correlate the concepts of general medicine with those of dentistry and establish mutual interdependence.
The ability to request and use critical paraclinical investigations in establishing the diagnosis.
The ability to formulate a suite of correct diagnoses.
Establishing an individualized treatment plan, formulated in a logical, coherent and effective sequence
The ability to predict the prognosis and evolution of the disease.
The ability to offer the patient several treatment solutions in accordance with the various concepts of oral rehabilitation.

6.2 transversal competencies: Cognitive skills: Notions about the concepts that define complex oral rehabilitation. Notions about signs, symptoms or diseases within general medical pathology reflected in dental medicine. Notions about diseases of the dento-maxillary apparatus that influence the general state of health. Notions related to paraclinical investigations useful in formulating effective diagnoses. Notions regarding oral rehabilitation therapy. Affective-value skills: Relationship with the patient and the medical staff. Communication with the patient. Communication with the dental technician.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Students' acquisition of general notions about oral rehabilitation concepts.
7.2 Specific objectives: To know and understand the principles that govern the concepts of oral rehabilitation. To use the specialized terms. To know basic medical notions from general pathology that influence oral health. To know the medication that can affect the oral health status, the diagnosis or the treatment plan. To know and explain the therapeutic principles/manipulations used in oral rehabilitation. To know the stages of the complete and complex clinical examination of the patient. To know the paraclinical investigations and their role in the documentation and formulation of the diagnosis and the treatment plan. To know the types of diagnoses that are formulated after examining the patient. To know the operations/procedures that must be applied for the oral rehabilitation of clinical cases. To adopt the behavior of the future dentist. To work in a team, developing the ability to collaborate with specialties from different fields of dentistry or general medicine.

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Introduction to oral rehabilitation. Current concepts in complex oral rehabilitation. Patient management.	Multimedia presentation	-	-	2
2	Specifics of patient examination in dentistry. Anamnestic questionnaires. Functional disturbances of the body in systemic diseases. Functional disorders of the orofacial system (SOF). Clinical record of oral rehabilitation.	Multimedia presentation	-	-	2
3	Elements of physiopathology of the oral cavity. Age-specific changes. The oral cavity as an ecosystem-relevant aspects in oral rehabilitation	Multimedia presentation	-	-	2
4	Pre- and pro-prosthetic treatments in oral rehabilitation. Periodontal, orthodontic and orthognathic aspects. Principles of rehabilitation of endodontically treated teeth.	Multimedia presentation	TBL	-	2
5	Intrinsic and extrinsic value of abutment teeth. Criteria for choosing abutment teeth. Paraclinical and complementary examinations. Criteria for establishing the diagnosis.	Multimedia presentation	-	-	2
6	Aesthetics in oral rehabilitation. Dento-facial and dento-alveolar harmony. Color selection criteria.	Multimedia presentation	-	-	2
7	The therapeutic algorithm in the oral rehabilitation of the patient with coronary destruction. Clinical cases.	Multimedia presentation	-	-	2
8	The therapeutic algorithm in the oral rehabilitation of the partially edentulous patient through fixed prostheses. Clinical cases.	Multimedia presentation	-	-	2

9	The therapeutic algorithm in the oral rehabilitation of the partially edentulous patient through partial dentures. Clinical cases.	Multimedia presentation	-	-	2
10	Oral rehabilitation of the partially edentulous patient through total dentures. Clinical cases.	Multimedia presentation	TBL	-	2
11	Dental implants. Opportunities and clinical considerations.	Multimedia presentation	-	-	2
12	Implanto-prosthetic oral rehabilitation. Single implant restorations. Implantology with immediate loading. Clinical cases.	Multimedia presentation	-	-	2
13	Craniomandibular dysfunction. Concept. Etiology. Clinical features and signs. Therapeutic principles.	Multimedia presentation	-	-	2
14	Prosthetic rehabilitation of congenital and acquired maxillofacial defects.	Multimedia presentation	-	-	2
Bibliography 1. Lecture Notes 2. Preti G. Prosthetic Rehabilitation. Part I, II, Quintessence Publishing Co. Ltd., 2008, ISBN – 978-1-85097-166-5 3. Jacobs S.H., O'Connell B.C.: Dental Implant Restoration. Principles and Procedures, Ed. Quintessence Publishing, 2011 4. Zinner I.D., Panno F.V., Small S.A., Landa L.S.: Implant Dentistry: From Failure to Success, Ed. Quintessence Publishing, 2004					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Presentation of the discipline, of the dental equipment. Training on occupational safety in the dental office. Introductory notions of patient examination.	Multimedia presentation	-	-	2
2	The role of medical and dental history in establishing the diagnosis. The importance of the patient's chronic medication in establishing the treatment plan. Clinical activity.	Clinical and multimedia presentation	-	-	2
3	The role of paraclinical investigations in establishing the diagnosis and treatment plan. OPT, CT, CBCT investigations. Clinical activity.	Clinical activity	-	-	2
4	Documentation of clinical cases based on data from the literature. Clinical activity.	Practical activity. Querying databases.	-	-	2
5	Documentation of a clinical case. Clinical activity	Clinical activity	Elaboration of a diagnosis and treatment plan based on the clinical file, paraclinical investigations and data from the literature.	-	2
6	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
7	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
8	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
9	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
10	Case presentation. Clinical activity.	Multimedia presentation	Each student makes a case presentation, according to the rules of these presentations, which is then discussed and argued in front of colleagues. Equivalent to CBL 1.	-	2
11	Case presentation. Clinical activity.	Multimedia presentation	-	-	2

12	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
13	Case presentation. Clinical activity.	Multimedia presentation	-	-	2
14	Case presentation. Clinical activity.	Multimedia presentation	Each student makes a case presentation, according to the rules of these presentations, which is then discussed and argued in front of colleagues. Equivalent to CBL 2		2

Bibliography

1. Preti G. Prosthetic Rehabilitation. Part I, II, Quintessence Publishing Co. Ltd., 2008
2. Course notes
3. Jacobs S.H., O'Connell B.C.: Dental Implant Restoration. Principles and Procedures, Ed. Quintessence Publishing, 2011
4. Zinner I.D., Panno F.V., Small S.A., Landa L.S.: Implant Dentistry: From Failure to Success, Ed. Quintessence Publishing, 2004
5. PA notes

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The acquisition of the concepts presented and the stimulation of active, logical thinking contribute to the formation of competitive specialists on the labor market, capable of performing complex treatments.

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	Knowledge of the theoretical aspects within the course topic.	TBL average	20
- practical activities	Knowledge of the theoretical and practical aspects within the topic of practical works.	CBL average	30
Final evaluation			
- theoretical final exam	Knowledge of the theoretical aspects within the course topic.	Multiple choice test	40
- practical final exam	Knowledge of the theoretical and practical aspects within the topic of practical works.	Interpretation of paraclinical examinations in the context of a given clinical situation.	10

Minimal performance standards:

Minimal performance standards: Minimum performance standard: Obtaining a minimum grade of 5 (five) for each component of the assessment:

course:

- to know the basic notions regarding oral rehabilitation,
- to participate in the discussion groups in the TBL system, on the mentioned topics

Practical works*:

- to perform the complete and complex examination of the patient,
- present at least one CBL 1 documented case presentation,
- to interpret a CT / CBCT in order to formulate the diagnosis and the treatment plan.
- treat and document a patient's treatment plan for CBL 2 clinical activity.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Conf dr Bechir Edwin-Sever	30 de minute după fiecare curs

Head of department

Course coordinator

Practical activities coordinator(s)



Syllabus

academic year: 2023 - 2024

1. Data regarding the program

1.1 Higher education institution: 'George Emil Palade' University of Medicine, Pharmacy, Sciences and Technology of Târgu Mureș
1.2 Faculty of: Dental medicine
1.3 Department: MD1
1.4 Field of study: Health, level of regulation: sectorial
1.5 Cycle of study: licence
1.6 Program of study: Dental medicine

2. Data regarding the discipline

2.1 Name of discipline: Community dentistry			
2.2 Course coordinator: Șef I dr Tohati Adrian-Roland			
2.3 Practical activities coordinator(s): Șef I dr Tohati Adrian-Roland, Șef I dr Petcu Blanka-Timea, Șef I dr Bereșescu Liana			
2.4 Year of study: VI	2.5 Semester: 2	2.6 Type of evaluation: E	2.7 Type of discipline: Obl

3. Total estimated time (hours per semester of didactic activities)

3.1 Hours per week: 12	3.2 lecture: 4	3.3 practical activities: 8
3.4 Total hours in curriculum: 84	3.5 lectures: 28	3.6 practical activities: 56
3.7 Distribution of time pool		
- study of books, lecture materials, bibliography, notes: 22		
- supplemental documentation at the library, from specialized information portals and in the field: 22		
- preparation for seminars / laboratories, homework, reports, portfolios and essays: 21		
- tutorial activities:		
- examinations: 1		
- other activities:		
3.8 Total hours of individual study: 66		
3.9 Total hours: 150		
3.10 Credits: 6		

4. Prerequisites (where applicable)

4.1 curricular: no
4.2 competency: no

5. Conditions

5.1 for lectures: Video-projector, laptop
5.2 for practical activities: dental units, handpieces, various consumables

6. Specific competencies acquired

6.1 professional competencies: professional competencies: The student must be able to know the main methods and procedures for conducting an epidemiological investigation as well as the main techniques for developing projects for analysis and optimization of oral hygiene in different communities. The student will be competent in explaining the risks of exposure to various drugs and vices of various population groups, as well as exposing various measures to prevent the spread of these vices among the population.

6.2 transversal competencies: transversal competencies: The student will acquire the ability to detect and correlate interdisciplinary oral health issues as an integral aspect in the general system of human health and society.
6.3 related to the study program: Disease state identification and accurately diagnosing dental condition(s). Conservative treatment of dento-periodontal structures. Diagnosis and interceptive treatment of dentomaxillary anomalies. Prosthetic restoration of dental arches. Diagnosis, evolution and clinical examination of patients with maxillofacial surgical conditions. Managing the theoretical and legislative bases of the health care systems operating in Romania, as well as the managerial ones regarding the dental offices.

7. Objectives of the discipline (based on the grid of specific competencies)

7.1 General objective: Carrying out an epidemiological exploratory investigation. Design and presentation of oral prophylaxis sessions for different population categories
7.2 Specific objectives: Knowledge of different methods and techniques of elaboration and execution of the elements of the epidemiological investigation The technique of elaboration and communication of group prophylaxis sessions regarding the dental health and the extension of the different vicious habits

8.1 Content of lecture, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	History and introductory elements	Oral and multimedia presentation	nu e cazul	nu e cazul	2
2	Primary, secondary and tertiary health care	Oral and multimedia presentation	nu e cazul	nu e cazul	2
3	Family health	Oral and multimedia presentation	nu e cazul	nu e cazul	2
4	WHO indices of epidemiological surveys	Oral and multimedia presentation	nu e cazul	nu e cazul	2
5	Epidemiological inquiry: definition, aim, methodology	Oral and multimedia presentation	nu e cazul	nu e cazul	2
6	Epidemiological inquiry: training of medical staff, data collection	Oral and multimedia presentation	nu e cazul	nu e cazul	2
7	Epidemiological inquiry: interpretation and reporting of collected data	Oral and multimedia presentation	nu e cazul	nu e cazul	2
8	Compilation of statistics and verification of the feasibility of epidemiological surveys	Oral and multimedia presentation	nu e cazul	nu e cazul	2
9	Community oral health education: generalities, objectives, principles	Oral and multimedia presentation	nu e cazul	nu e cazul	2
10	Community oral health education: methods, techniques for transmitting information	Oral and multimedia presentation	nu e cazul	nu e cazul	2
11	Alcohol	Oral and multimedia presentation	nu e cazul	nu e cazul	2
12	Smoking	Oral and multimedia presentation	nu e cazul	nu e cazul	2
13	Drugs: Social issues and terminological clarifications	Oral and multimedia presentation	nu e cazul	nu e cazul	2
14	Actual Drugs	Oral and multimedia presentation	nu e cazul	nu e cazul	2
Bibliography Tohati Adrian. Elements of community dentistry Curs Lito UMF Tg.Mures 2018 Tohati Adrian, Bechir Farah. Concepts in Preventive Dentistry UMFST Tg. Mures 2019					

8.2 Content of laboratory, semester 2

No	Subject	Teaching methods	Observations	ICS correlation	Hours
1	Practical establishment of the epidemiological investigation strategy	Practical demonstrations	nu e cazul	nu e cazul	4

2	Scheduling, detailing and management of trips in preschool communities	Practical demonstrations	nu e cazul	nu e cazul	4
3	Travel in preschool communities	Practical demonstrations	nu e cazul	nu e cazul	4
4	Travel in preschool communities	Practical demonstrations	nu e cazul	nu e cazul	4
5	Scheduling, detailing and managing trips in school groups I-IV	Practical demonstrations	nu e cazul	nu e cazul	4
6	Travel in school groups grades I-IV	CBL session	nu e cazul	nu e cazul	4
7	Travel in school groups grades I-IV	Practical demonstrations	nu e cazul	nu e cazul	4
8	Scheduling, detailing and management of trips in groups of students grades V-VIII	CBL session	nu e cazul	nu e cazul	4
9	Travel in school groups V-VIII	Practical demonstrations	nu e cazul	nu e cazul	4
10	Travel in school groups V-VIII	Practical demonstrations	nu e cazul	nu e cazul	4
11	Scheduling, detailing and managing travel in college level communities	Practical demonstrations	nu e cazul	nu e cazul	4
12	Travel to community at the college level communities	Practical demonstrations	nu e cazul	nu e cazul	4
13	Scheduling, detailing and managing travel in communities with special needs	Practical demonstrations	nu e cazul	nu e cazul	4
14	Travel in communities with special needs	Practical demonstrations	nu e cazul	nu e cazul	4

Bibliography

Tohati Adrian. Elements of community dentistry Curs Lito UMF Tg.Mures 2018

Tohati Adrian, Bechir Farah. Concepts in Preventive Dentistry UMFST Tg. Mures 2019

9. Correlations between the contents of the discipline and the expectations of the community representatives, professional associations and representative employers in the domain

The student must know different methods of designing and executing the epidemiological investigations, as well as the elaboration of a group oro-dental prophylaxis session

10. Evaluation

Type of activity	Evaluation criteria	Evaluation methods	Percent of final grade
Evaluation during the semester			
- lecture	nu e cazul	nu e cazul	0
- practical activities	2 x CBL session	presentations	30
Final evaluation			
- theoretical final exam	Sumative examination	MCQ	50
- practical final exam	practical presentation	practical examination	20

Minimal performance standards:

Minimal performance standards:

Minimum performance standard: Elaboration and practical realization of an exploratory epidemiological investigation plan, realization of a presentation of oro-dental prophylaxis on different population groups.

-To validate the evaluations, the grade of each component that is included in the calculation of the final grade must be at least 5.

- the minimum conditions for admission to the final examination require the completion of a number of 2 trips in groups of preschoolers or schoolchildren grades I-IV, as well as a number of 2 trips in groups of schoolchildren grades V-VIII, high school or special needs school in order to perform oro-dental prophylaxis sessions.

-No more than 2 absences are allowed for the activity of practical works.

11. Must seen clinical situation list

-

12. Clinical / practical abilities

-

13. Appointment timetable (for students)

Şef I dr Tohati Adrian-Roland	30 de minute după fiecare curs

Head of departament

Course coordinator

Practical activities coordinator(s)