

**CURRICULUM – 1st year
2024-2025**

UNIVERSITY	GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU MUREȘ	SPECIALISATION	PHARMACY, LR, LM
FACULTY	FACULTY OF PHARMACY	TITLE	PHARMACIST
FIELD OF STUDY	HEALTH	DURATION	5 YEARS
LEVEL OF REGULATION	SECTORIAL	ECTS	60+2 / YEAR - 300+4 / COMPLETION OF STUDIES

No	Educational activities Subjects	Code/ Type of subjects*	I st Semester								II nd Semester								Total per academic year			
			1 st Module (7 weeks)				2 nd Module (7 weeks)				3 rd Module (7 weeks)				4 th Module (7 weeks)							
			Lect.	PA/ Sem.	ECTS	Type of Assessm ent	Lect.	PA/ Sem.	ECTS	Type of Assessm ent	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assessm ent	Lect.	PA/ Sem.	Indiv. study	ECTS
1.	General and Inorganic Chemistry	FAR101-114/FS	4	4	5	E	4	6	5	E	-	-	-	-	-	-	-	-	56	70	124	10
2.	Informatics and Biostatistics Applied in Pharmacy	FAR116-117/CS	4	4	3	E	2	2	2	V	-	-	-	-	-	-	-	-	42	42	41	5
3.	Introduction to Pharmaceutical Terminology	FAR122/DS	2	-	2	V	-	-	-	-	-	-	-	-	-	-	-	-	14	-	36	2
4.	Pharmaceutical Calculations	FAR107/SS	2	-/2	3	V	-	-	-	-	-	-	-	-	-	-	-	-	14	-/14	47	3
5.	Pharmaceutical Physics	FAR103-115/FS	-	-	-	-	3	4	4	E	2	3	3	E	-	-	-	-	35	49	91	7
6.	Foreign Languages	FAR111/CS	-	-/4	2	-	-	-/4	2	V	-	-	-	-	-	-	-	-	-	-/56	44	4
7.	First aid. Medical Emergencies	FAR123/DS	-	-	-	-	2	-	2	V	-	-	-	-	-	-	-	-	14	-	36	2
8.	General Organic Chemistry	FAR118-119/FS	-	-	-	-	-	-	-	-	4	6	5	E	4	6	5	E	56	84	110	10
9.	Physical Chemistry	FAR120-121/FS	-	-	-	-	-	-	-	-	4	6	5	E	4	6	5	E	56	84	110	10
10.	Physical Education	FAR112/CS	-	4	1	-	-	-	-	-	-	4	1	V	-	-	-	-	-	56	(6)	2
11.	Analytical Chemistry and Instrumental Analysis	FAR108/DS	-	-	-	-	-	-	-	-	-	-	-	-	4	6	5	E	28	42	55	5
12.	Specialty Practice (2 weeks in the localities of residence) 30 hours (6 hours x 5 days)/week	FAR113/SS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	V	-	60	(10)	2
13.	Optional Subject**	FAR125/OPT	-	-	-	-	-	-	-	-	2	2	2	V	-	-	-	-	14	14	22	2
GRAND TOTAL			12	12/6	15+1+0	2E;2V	11	12/4	15	2E;3V	12	21	13+1+2	3E;2V	12	18	17	3E;1V	329	501/70	700	60+2+2
TOTAL HOURS/CREDITS			28,5 hours/week ; 30+1+0 ECTS								31,5 hours/ week; 30+1+2 ECTS								900			
** Optional subject / one subject of choice from:																						
History of Pharmacy – cod FAR125.1/ CS					Ethics and Non-Discrimination – cod FAR125.2/ CS										Latin Language – cod FAR125.3/ CS							

Ratio theory / practical activities – 1 : 1,73

* **FS**– fundamental subject; **SS** – specialty subject; **DS** – domain subject; **CS** – complementary subject; **OPT** – optional subject / **4 FS + 2 SS + 3 DS + 3 CS + 1 OPT= 13**

E – exam; **V** – verification; **PA** – practical activities, **Sem.** – seminar, **Indiv. study** – individual study, **ECTS** – Transferable European Credits

RECTOR,
Prof. Leonard Azamfirei, MD, PhD

VICERECTOR,
Prof. Anca Negovan, MD, PhD

DEAN,
Prof. Daniela-Lucia Muntean, PharmD

CHIEF SECRETARY,
Ec. Simona Biriș

**CURRICULUM – 2nd year
2024-2025**

UNIVERSITY		GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU MUREȘ									SPECIALISATION				PHARMACY, LR, LM									
FACULTY		FACULTY OF PHARMACY									TITLE				PHARMACIST									
FIELD OF STUDY		HEALTH									DURATION				5 YEARS									
LEVEL OF REGULATION		SECTORIAL									ECTS				60+2 / YEAR - 300+4 / COMPLETION OF STUDIES									
No	Educational activities Subjects	Code/ Type of subjects *	I st Semester								II nd Semester								Total per academic year					
			1 st Module (7 weeks)				2 nd Module (7 weeks)				3 rd Module (7 weeks)				4 th Module (7 weeks)									
			Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	Indiv. study	ECTS		
1.	Cell and Molecular Biology. Genetics	FAR230/ FS	4+2	4+2	5	E	-	-	-	-	-	-	-	-	-	-	-	-	42	42	41	5		
2.	Chemistry of Environmental Factors	FAR219/ SS	4	4	3	E	-	-	-	-	-	-	-	-	-	-	-	-	28	28	19	3		
3.	Public Health	FAR220/ DS	2	-	2	V	-	-	-	-	-	-	-	-	-	-	-	-	14	-	36	2		
4.	Descriptive Biochemistry	FAR221/ DS	-	-	-	-	4	4	4	E	-	-	-	-	-	-	-	-	28	28	44	4		
5.	Analytical Chemistry and Instrumental Analysis	FAR201- 217/DS	-	-	-	-	4	6	6	E	4	6	6	E	-	-	-	-	56	84	160	12		
6.	Anatomy	FAR222/ FS	-	-	-	-	4	4	4	E	-	-	-	-	-	-	-	-	28	28	44	4		
7.	Behavioral Sciences. Medical Psychology	FAR228/ CS	-	-	-	-	2	-	2	V	-	-	-	-	-	-	-	-	14	-	36	2		
8.	Physiology și Pathophysiology	FAR224- 225/FS	-	-	-	-	-	-	-	-	4	4	4	E	2	2	2	E	42	42	66	6		
9.	Pharmaceutical Botany	FAR226- 227/DS	-	-	-	-	-	-	-	-	4	4	4	E	4	4	4	E	56	56	88	8		
10.	Communication Techniques and Abilities	FAR206/ SS	-	-	-	-	-	-	-	-	2	2	2	V	-	-	-	-	14	14	22	2		
11.	Medical Technical Products	FAR210/ SS	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	V	14	-	36	2		
12.	Pharmaceutical Deontology	FAR209/ CS	-	-	-	-	-	-	-	-	-	-	-	-	2	-/2	2	V	14	-/14	22	2		
13.	Foreign Languages	FAR211/ CS	-	-/4	2	-	-	-	-	-	-	-	-	-	-	-/4	2	V	-	-/56	44	4		
14.	Physical Education	FAR212/ CS	-	4	1	-	-	-	-	-	-	-	-	-	-	4	1	V	-	56	(6)	2		
15.	Specialty Practice (2 weeks in the localities of residence) 30 hours (6 hours x 5 days)/week	FAR213/ SS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	V	-	60	(10)	2		
16.	Optional Subject**	FAR229/ OPT	2	-	2	V	-	-	-	-	-	-	-	-	-	-	-	-	14	-	36	2		
GRAND TOTAL			14	14/4	14+1	2E;2V	14	14	16	3E;1V	14	16	16	3E;1V	10	10/6	14+1	2E;5V	364	438/70	678	60+2		
TOTAL HOURS/CREDITS			30 hours / week; 30+1 ECTS								28 hours / week; 30+1 ECTS								872					
** Optional subject / one subject of choice from:																								
Advanced Digital Skills – cod FAR229.1/ CS						Social Media in Healthcare and Consumer Health – cod FAR229.2/ CS						Artificial Intelligence in Pharmacy – cod FAR229.3/ CS												

Ratio theory / practical activities – 1 : 1,39

**** FS– fundamental subject; SS – specialty subject; DS – domain subject; CS – complementary subject; OPT – optional subject / 3 FS + 4 SS + 4 DS + 4 CS + 1 OPT = 16**

E – exam; V – verification; PA – practical activities, Sem. – seminar, Indiv. study – individual study, ECTS – Transferable European Credits

RECTOR,
Prof. Leonard Azamfirei, MD, PhD

VICERECTOR,
Prof. Anca Negovan, MD, PhD

DEAN,
Prof. Daniela-Lucia Muntean, PharmD

CHIEF SECRETARY,
Ec. Simona Biriș

**CURRICULUM – 3rd year
2024-2025**

UNIVERSITY	GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU MUREȘ	SPECIALISATION	PHARMACY, LR, LM
FACULTY	FACULTY OF PHARMACY	TITLE	PHARMACIST
FIELD OF STUDY	HEALTH	DURATION	5 YEARS
LEVEL OF REGULATION	SECTORIAL	ECTS	60+2 / YEAR - 300+4 / COMPLETION OF STUDIES

No	Educational activities Subjects	Code/ Type of subjects*	I st Semester								II nd Semester								Total per academic year				
			1 st Module (7 weeks)				2 nd Module (7 weeks)				3 rd Module (7 weeks)				4 th Module (7 weeks)								
			Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	Indiv. study	ECTS	
1.	Pharmaceutical Technology	FAR304-312-315/SS	4	6	5	E	4	6	5	E	-	-	-	-	4	6	4	E	84	126	140	14	
2.	Pharmacognosy and Phytochemistry	FAR316-317-318/SS	4	-	3	E	4	6	4	E	-	-	-	-	4	6	5	E	84	84	132	12	
3.	Biopharmacy and Pharmacokinetics	FAR319/SS	4	4	4	C	-	-	-	-	-	-	-	-	-	-	-	-	28	28	44	4	
4.	Plant Microscopy	FAR320/DS	2	2	3	C	-	-	-	-	-	-	-	-	-	-	-	-	14	14	47	3	
5.	Biochemistry	FAR321/DS	-	-	-	-	4	4	4	E	-	-	-	-	-	-	-	-	28	28	44	4	
6.	Ethics and Academic Integrity	FAR326/CS	-	-	-	-	2	-	2	C	-	-	-	-	-	-	-	-	14	-	36	2	
7.	Medical Semiology	FAR322/DS	-	-	-	-	-	-	-	-	2	2	2	E	-	-	-	-	14	14	22	2	
8.	Pharmacology	FAR306/SS	-	-	-	-	-	-	-	-	4	2	3	E	-	-	-	-	28	14	33	3	
9.	General and Clinical Microbiology	FAR327/DS	-	-	-	-	-	-	-	-	4	4	4	E	-	-	-	-	28	28	44	4	
10.	Applied Organic Chemistry	FAR324/FS	-	-	-	-	-	-	-	-	2	-	2	C	-	-	-	-	14	-	36	2	
11.	Pharmaceutical and Therapeutic Chemistry	FAR301/DS	-	-	-	-	-	-	-	-	-	-	-	-	4	6	4	E	28	42	30	4	
12.	Immunology	FAR309/DS	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	C	14	-	36	2	
13.	Specialty Practice (2 weeks in the localities of residence) 30 hours (6 hours x 5 days)/week)	FAR308/DS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	C	-	60	(10)	2	
14.	Optional Subject**	FAR328/OPT	-	-	-	-	-	-	-	-	2	-	2	C	-	-	-	-	14	-	36	2	
GRAND TOTAL			14	12	15	2E;2C	14	16	15	3E;1C	14	8	13	3E;2C	14	18	17	3E;2C	392	438	670	60	
TOTAL HOURS/CREDITS			28 hours/ week; 30 ECTS								27 hours/ week; 30 ECTS								830				
** Optional subject / one subject of choice from:																							
Clinical Laboratory – cod FAR328.1/ DS		Veterinary Drugs – cod FAR328.2/ DS						Homeopathic Preparations – cod FAR328.3/ CS						The Pharmacist's Role in Nutritional Counseling for Target Populations (Athletes, Pregnant Women, Children, Elderly)– cod FAR328.4/ DS									

Ratio theory / practical activities – 1 : 1,11

**** FS– fundamental subject; SS – specialty subject; DS – domain subject; CS – complementary subject; OPT – optional subject / 3 FS + 4 SS + 4 DS + 4 CS + 1 OPT = 16**

E – exam; V – verification; PA – practical activities, Sem. – seminar, Indiv. study – individual study, ECTS – Transferable European Credits

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**CURRICULUM – 4th year
2024-2025**

UNIVERSITY	GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU MUREȘ	SPECIALISATION	PHARMACY, LR, LM
FACULTY	FACULTY OF PHARMACY	TITLE	PHARMACIST
FIELD OF STUDY	HEALTH	DURATION	5 YEARS
LEVEL OF REGULATION	SECTORIAL	ECTS	60+2 / YEAR - 300+4 / COMPLETION OF STUDIES

No	Educational activities Subjects	Code/ Type of subjects*	I st Semester								II nd Semester								Total per academic year			
			1 st Module (7 weeks)				2 nd Module (7 weeks)				3 rd Module (7 weeks)				4 th Module (7 weeks)							
			Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	Indiv. study	ECTS
1.	Pharmaceutical Technology	FAR401/ SS	4	6	6	E	-	-	-	-	-	-	-	-	-	-	-	-	28	42	80	6
2.	Pharmaceutical and Therapeutic Chemistry	FAR403- 415-418/ SS	4	6	5	E	4	6	5	E	4	6	5	E	-	-	-	-	84	126	165	15
3.	Management and Entrepreneurship	FAR420/ CS	-	-	-	-	4	4	5	E	-	-	-	-	-	-	-	-	28	28	69	5
4.	Marketing and Pharmaceutical legislation	FAR421/ DS	-	-	-	-	4	-/4	4	V	-	-	-	-	-	-	-	-	28	-/28	44	4
5.	Methodology of Pharmaceutical Scientific Research	FAR409/ CS	-	-	-	-	2	4	3	V	-	-	-	-	-	-	-	-	14	28	33	3
6.	General and Clinical Microbiology	FAR422/ FS	-	-	-	-	-	-	-	-	4	4	4	E	-	-	-	-	28	28	44	4
7.	Pharmacology and Pharmacotherapy	FAR423- 424/SS	-	-	-	-	-	-	-	-	4+2	6	6	E	4+2	-/6	5	E	84	42/42	107	11
8.	Clinical Pathology	FAR425/ DS	-	-	-	-	-	-	-	-	-	-	-	-	4	2	3	E	28	14	33	3
9.	Toxicology	FAR417/ SS	-	-	-	-	-	-	-	-	-	-	-	-	4	6	5	E	28	42	55	5
10.	Specialty Practice (2 weeks in the localities of residence) 30 hours (6 hours x 5 days)/week)	FAR411/ SS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	V	-	120	(70)	2
11.	Optional Subject**	FAR412/ OPT	2	-	2	V	-	-	-	-	-	-	-	-	-	-	-	-	14	-	36	2
GRAND TOTAL			10	12	13	2E; 1V	14	14/4	17	2E;2V	14	16	15	3E; - V	14	8/6	15	3E;1V	364	470/70	596	60
TOTAL HOURS/CREDITS			27 hours/ week; 30 ECTS								29 hours/ week; 30 ECTS								904			
** Optional subject / one subject of choice from:																						
"Pharmacology of Extreme Ages and Pharmacovigilance – cod FAR412.1/ SS			"Nanotechnologies and Nanomaterials with Biomedical Applications – cod FAR412.2/ SS							Pharmacoeconomics – cod FAR312.3/ CS							Career Guidance – cod FAR412.4/ CS					

Ratio theory / practical activities – 1 : 1,48

* **FS**– fundamental subject; **SS** – specialty subject; **DS** – domain subject; **CS** – complementary subject; **OPT** – optional subject / **1 FS + 6 SS + 1 DS + 2 CS + 1 OPT = 11**

E – exam; **V** – verification; **PA** – practical activities, **Sem.** – seminar, **Indiv. study** – individual study, **ECTS** – Transferable European Credits

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**CURRICULUM – 5th year
2024-2025**

UNIVERSITY	GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU MUREȘ	SPECIALISATION	PHARMACY, LR, LM
FACULTY	FACULTY OF PHARMACY	TITLE	PHARMACIST
FIELD OF STUDY	HEALTH	DURATION	5 YEARS
LEVEL OF REGULATION	SECTORIAL	ECTS	60+2 / YEAR - 300+4 / COMPLETION OF STUDIES + 10 ECTS BACHELOR'S DEGREE

No	Educational activities Subjects	Code/ Type of subjects*	I st Semester								II nd Semester								Total per academic year				
			1 st Module (7 weeks)				2 nd Module (7 weeks)				3 rd Module (7 weeks)				4 th Module (7 weeks)								
			Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	ECTS	Type of Assess ment	Lect.	PA/ Sem.	Indiv. study	ECTS	
1.	Pharmacology (Pharmacotherapy, Clinical Studies, and Pharmacovigilance)	FAR520/ SS	4	4	4	E	-	-	-	-	-	-	-	-	-	-	-	28	28	44	4		
2.	Drug Analysis and Bioanalytical Techniques	FAR518/ SS	4+2	6	5	E	-	-	-	-	-	-	-	-	-	-	-	42	42	41	5		
3.	Dermopharmacy and Cosmetology	FAR519/ SS	2	2	3	V	-	-	-	-	-	-	-	-	-	-	-	14	14	47	3		
4.	Industry and Biotechnology of Drug	FAR501/ SS	-	-	-	-	4+2	6	5	E	-	-	-	-	-	-	-	42	42	41	5		
5.	Clinical Pharmacy	FAR502/ SS	-	-	-	-	4	4	4	E	-	-	-	-	-	-	-	28	28	44	4		
6.	Counseling and Pharmaceutical Care	FAR508/ CS	-	-	-	-	4	2	3	E	-	-	-	-	-	-	-	28	14	33	3		
7.	Phytotherapy	FAR506/ SS	-	-	-	-	4	-	2	V	-	-	-	-	-	-	-	28	-	22	2		
8.	Medical Emergencies	FAR507/ DS	-	-	-	-	4	-	2	V	-	-	-	-	-	-	-	28	-	22	2		
9.	Online Pharmacy	FAR516/ SS	-	-	-	-	-	-	-	-	1	-	2	V	-	-	-	7	-	43	2		
10.	Professional traineeship	FAR517/ SS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	E	-	784	(84)	28	
11.	Optional Subject**	FAR511/ OPT	2	-	2	V	-	-	-	-	-	-	-	-	-	-	-	14	-	36	2		
GRAND TOTAL			14	12	14	2E;2V	22	12	16	3E;2V	1	-	2	-E;1V	-	-	28	1E;-V	259	952	289	60	
TOTAL HOURS/CREDITS			30 hours/ week; 30 ECTS								0,5 hours/ week; 30 ECTS								1211				
** Optional subject / one subject of choice from:																							
Pharmacogenomics – cod FAR511.1/ SS			Biological Drugs – cod FAR511.2/ SS																				

Elaboration of the bachelor thesis: 56 hours in first and second semester

Ratio theory / practical activities – 1 : 3,67

* **FS**– fundamental subject; **SS** – specialty subject; **DS** – domain subject; **CS** – complementary subject; **OPT** – optional subject / **0 FS + 8 DS + 1 DS + 1 CS + 1 OPT = 11**

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RECTOR,
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