

PROGRAM OF STUDIES – YEAR I

2019-2020

UNIVERSITY	GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU-MUREȘ	SPECIALIZATION	PHARMACY: RL, HL
FACULTY	FACULTY OF PHARMACY	ABSOLVENT'S TITLE	PHARMACIST
FIELD OF STUDY	HEALTH	STUDY PERIOD	5 YEARS
REGLEMENTATION LEVEL	SECTORIAL	TOTAL ECTS CREDITS	60+2 / year I; 300+4 final

Nr.	Educational activities			Semester I 14 weeks					Semester II 14 weeks					Total educational year (28 weeks)		
	Subjects	Subject code	Subje cttype	Cs.	L.P./ Sem.	Module hour	ECTS credits	Form of assessment	Cs.	L.P./ Sem.	Module hours	ECTS credits	Form of assessment	Cs.	L.P./ Sem	CTS credit
	<i>Compulsory subjects</i>															
1.	General and inorganic chemistry	FAR101	BS	2	3	-	6	E	2	3	-	5	E	56	84	11
2.	Pharmaceutical botany	FAR102	FS	2	2	-	6	E	3	2	-	5	E	70	56	11
3.	Pharmaceutical physics	FAR103	FS	1	2	-	3	E	2	2	-	4	E	42	56	7
4.	Pharmaceutical informatics and biostatistics	FAR104	CS	2	2	-	5	E	1	1	-	2	C	42	42	7
5.	Anatomy	FAR105	BS	2	2	-	4	E	-	-	-	-	-	28	28	4
6.	Introduction to pharmaceutical terminology	FAR106	PS	-	-	-	-	-	1	1	-	2	C	14	14	2
7.	Pharmaceutical calculations	FAR107	PS	-	-/1	-	2	C	-	-	-	-	-	-	-/14	2
8.	Analytical chemistry and instrumental analysis	FAR108	FS	-	-	-	-	-	2	3	-	5	E	28	42	5
9.	Physiology	FAR109	BS	-	-	-	-	-	2	2	-	3	E	28	28	3
10.	Principles of first aid	FAR110	FS	-	-	-	-	-	1	-	-	2	C	14	-	2
11.	Foreign languages	FAR111	CS	-	-/2	-	2	-	-	-/2	-	2	C	-	-/56	4
12.	Physical education	FAR112	CS	-	2	-	1	-	-	2	-	1	C	-	56	2
13.	Summer practice (2 weeks at places of residence) 30 hours (6 hours x 5 days)/week	FAR113	PS	-	-	-	-	-	-	-	-	2	C	-	60	2
Optional subjects (one by choice)																
13.	-	OPT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14.	-	OPT	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL		3BS; 3PS, 4FS; 3CS	10	13/3	-	30+1	5 E; 2 C	13	15/2	-	30+1	5 E; 5 C	322	452/70	60+2	
TOTAL HOURS / CREDITS SEMESTER / YEAR				26		30+1	5 E; 2 C	30		30+1	5 E; 5 C	844		60+2		

Ratio of theory / practical activity- 1 : 1,62

*BS- basic subject; PS – professional subject; FS – field subject; CS – complementary subject; OPT – optional subject

E – exam; C – colloquium; Cs. – course, L.P. – laboratory practice, Sem. – seminar; ECTS – European Credit Transfer System, RL – romanian language, HL – hungarian language

PROGRAM OF STUDIES – YEAR II

2019-2020

UNIVERSITY	GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU-MUREȘ	SPECIALIZATION	PHARMACY: RL, HL
FACULTY	FACULTY OF PHARMACY	ABSOLVENT'S TITLE	PHARMACIST
FIELD OF STUDY	HEALTH	STUDY PERIOD	5 YEARS
REGLEMENTATION LEVEL	SECTORIAL	TOTAL ECTS CREDITS	60+2 / year II; 300+4 final

Nr.	Educational activities		Subject code	Subject type	Semester I 14 weeks					Semester II 14 weeks					Total educational year (28 weeks)		
	Subjects	Compulsory subjects			Cs.	L.P./ Sem.	Module hours	ECTS credits	Form of assessment	Cs.	L.P./ Sem.	Module hours	ECTS credits	Form of assessment	Cs.	L.P./ Sem	ECTS credits
1.	Analytical chemistry and instrumental analysis			FAR201	FS	2	3	-	5	E	2	3	-	6	E	56	84
2.	Organic chemistry		FAR202	BS	2	3	-	5	E	3	3	-	6	E	70	84	11
3.	Physical chemistry		FAR203	FS	2	3	-	6	E	2	3	-	5	E	56	84	11
4.	Microbiology, virology, parasitology		FAR204	BS	2	2	-	4	E	-	-	-	-	-	28	28	4
5.	Molecular and cell biology		FAR205	BS	2	2	-	4	E	-	-	-	-	-	28	28	4
6.	Communication techniques and abilities		FAR206	PS	1	1	-	2	C	-	-	-	-	-	14	14	2
7.	Genetics and techniques of molecular biology		FAR207	BS	-	-	-	-	-	2	1	-	3	E	28	14	3
8.	Physiopathology		FAR208	BS	-	-	-	-	-	2	-	-	2	E	28	-	2
9.	Pharmaceutical deontology		FAR209	PS	-	-	-	-	-	1	-/1	-	2	C	14	-/14	2
10.	Technical-medical products		FAR210	PS	-	-	-	-	-	1	-	-	2	C	14	-	2
11.	Foreign languages		FAR211	CS	-	-/2	-	2	-	-	-/2	-	2	C	-	-/56	4
12.	Physical education		FAR212	CS	-	2	-	2	-	-	2	-	2	C	-	56	4
13.	Summer practice (2 weeks at places of residence) 30 hours (6 hours x 5 days)/week		FAR213	PS	-	-	-	-	-	-	-	-	2	C	-	60	2
Optional subjects (one by choice)																	
12.	Medical psychology	OPT	FAR214	FS	1	-	-	2	C	-	-	-	-	-	14	-	2
13.	The history of art	OPT	FAR215	CS													
TOTAL			5BS; 4PS; 3FS; 3CS		12	16/2	-	30+1	5 E, 2 C	13	12/3	-	30+1	5 E; 5 C	350	452/70	60+2
TOTAL HOURS / CREDITS SEMESTER / YEAR					30			30+1	5 E, 2 C	28			30+1	5 E; 5 C	872		60+2

Ratio of theory / practical activity- 1 : 1,49

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PROGRAM OF STUDIES – YEAR III 2019-2020

UNIVERSITY	GEORGE EMIL PALADE UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU-MUREȘ	SPECIALIZATION	PHARMACY: RL, HL
FACULTY	FACULTY OF PHARMACY	ABSOLVENT'S TITLE	PHARMACIST
FIELD OF STUDY	HEALTH	STUDY PERIOD	5 YEARS
REGLEMENTATION LEVEL	SECTORIAL	TOTAL ECTS CREDITS	60 / year III; 300+4 final

Nr.	Educational activities			Semester I 14 weeks					Semester II 14 weeks					Total educational year (28 weeks)		
	Subjects	Subject code	Subject type	Cs.	L.P./Sem.	Module hours	ECTS credits	Form of assessment	Cs.	L.P./Sem.	Module hours	ECTS credits	Form of assessment	Cs.	L.P./Sem	ECTS credits
	<i>Compulsory subjects</i>															
1.	Pharmaceutical and therapeutical chemistry	FAR301	PS	2	3	-	6	E	2	3	-	5	E	56	84	11
2.	Pharmacognosy	FAR302	PS	3	3	-	7	E	3	3	-	5	E	84	84	12
3.	Pharmaceutical biochemistry	FAR303	FS	3	3	-	6	E	3	3	-	5	E	84	84	11
4.	Pharmaceutical technology	FAR304	PS	2	3	-	6	E	2	3	-	5	E	56	84	11
5.	Pathology and medical terminology	FAR305	FS	3	2	-	5	E	-	-	-	-	-	42	28	5
6.	Pharmacology	FAR306	PS	-	-	-	-	-	2	1	-	3	E	28	14	3
7.	Clinical laboratory	FAR307	PS	-	-	-	-	-	1	2	-	3	C	14	28	3
8.	Summer practice (2 weeks at places of residence) 30 hours (6 hours x 5 days)/week	FAR308	PS	-	-	-	-	-	-	-	-	2	C	-	60	2
	<i>Optional subjects (one by choice)</i>															
9.	Immunology	OPT	FAR309	PS	-	-	-	-	1	-	-	2	C	14	-	2
10.	Veterinary medicines	OPT	FAR310	PS	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL				13	14	-	30	5 E ; 0 C	14	15	-	30	5 E; 3 C	378	466	60
TOTAL HOURS / CREDITS SEMESTER / YEAR				27			30	5 E ; 0 C	29			30	5 E; 3 C	844		60

Ratio of theory / practical activity- 1 : 1,23

*BS- basic subject; PS – professional subject; FS – field subject; CS – complementary subject; OPT – optional subject

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PROGRAM OF STUDIES – YEAR IV 2019-2020

UNIVERSITY	UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY „GEORGE EMIL PALADE” OF TÂRGU-MUREȘ	SPECIALIZATION	PHARMACY. RL, HL
FACULTY	FACULTY OF PHARMACY	ABSOLVENT’S TITLE	PHARMACIST
FIELD OF STUDY	HEALTH	STUDY PERIOD	5 YEARS
REGLEMENTATION LEVEL	SECTORIAL	TOTAL ECTS CREDITS	60 / year IV; 300+4 final

Nr.	Educational activities		Subject code	Subject type	Semester I 14 weeks					Semester II 14 weeks					Total educational year (28 weeks)		
	Subjects				Cs.	L.P./ Sem.	Module hours	ECTS credits	Form of assessment	Cs.	L.P./ Sem.	Module hours	ECTS credits	Form of assessment	Cs.	L.P./ Sem	ECTS credits
	<i>Compulsory subjects</i>																
1.	Pharmaceutical technology		FAR401	PS	2	3	-	5	E	2	3	-	5	E	56	84	10
2.	Pharmacology		FAR402	PS	3	3	-	6	E	3	3	-	6	E	84	84	12
3.	Pharmaceutical and therapeutical chemistry		FAR403	PS	2	3	-	5	E	2	3	-	5	E	56	84	10
4.	Toxicology		FAR404	PS	2	3	-	5	E	2	3	-	4	E	56	84	9
5.	Pharmaceutical marketing		FAR405	PS	1	-/1	-	2	E	-	-	-	-	-	14	-/14	2
6.	Biopharmacy and pharmacokinetics		FAR406	PS	2	2	-	4	C	-	-	-	-	-	28	28	4
7.	Public health		FAR407	FS	1	-	-	1	C	-	-	-	-	-	14	-	1
8.	Environmental chemistry		FAR408	PS	-	-	-	-	-	2	2	-	3	E	28	28	3
9.	Pharmaceutical research methodology		FAR409	CS	-	-	-	-	-	1	2	-	3	C	14	28	3
10.	Dermopharmacy and cosmetology		FAR410	PS	-	-	-	-	-	1	1	-	2	C	14	14	2
11.	Summer practice (4 weeks in laboratories and industry) 30 hours (6 hours x 5 days)/week		FAR411	PS	-	-	-	-	-	-	-	-	2	C	-	120	2
<i>Optional subjects (one by choice)</i>																	
12.	Pharmacology of extreme ages and pharmacovigilance		OPT FAR412	PS	1	-	-	2	C	-	-	-	-	-	14	-	2
13.	Homeopathic medicines		OPT FAR413	PS													
TOTAL			11BS; 11PS; 1FS; 1CS		14	14/1	-			13	17	-			378	554/14	
TOTAL HOURS / CREDITS SEMESTER / YEAR					29			30	5 E; 3 C	30			30	5 E; 3 C	946		60

Ratio of theory / practical activity- 1 : 1,50

*BS- basic subject; PS – professional subject; FS – field subject; CS – complementary subject; OPT – optional subject

E – exam; C – colloquium; Cs. – course, L.P. – laboratory practice, Sem. – seminar; ECTS – European Credit Transfer System, RL – romanian language, HL – hungarian language

PROGRAM OF STUDIES – YEAR V

2019-2020

UNIVERSITY	UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY „GEORGE EMIL PALADE” OF TÂRGU-MUREȘ	SPECIALIZATION	PHARMACY: RL, HL
FACULTY	FACULTY OF PHARMACY	ABSOLVENT'S TITLE	PHARMACIST
FIELD OF STUDY	HEALTH	STUDY PERIOD	5 YEARS
REGLEMENTATION LEVEL	SECTORIAL	TOTAL ECTS CREDITS	60 / year V; 300+4 final

Nr.	Educational activities			Semester I 14 weeks					Semester II 14 weeks					Total educational year (28 weeks)			
	Subjects	Subject code	Subject type	Cs.	L.P./ Sem.	Module hours	ECTS credits	Form of assessment	Cs.	L.P./ Sem.	Module hours	ECTS credits	Form of assessment	Cs.	L.P./ Sem	ECTS credits	
	<i>Compulsory subjects</i>																
1.	Pharmaceutical industry and biotechnology	FAR501	PS	3	3	-	6	E	-	-	-	-	-	42	42	6	
2.	Clinical pharmacy	FAR502	PS	2	2	-	5	E	-	-	-	-	-	28	28	5	
3.	Pharmaceutical management, entrepreneurship and law	FAR503	PS	2	2	-	3	E	1	-/1	-	2	E	42	28/14	5	
4.	Drug analysis	FAR504	PS	3	3	-	6	E	-	-	-	-	-	42	42	6	
5.	Pharmacology and phamacotherapy	FAR505	PS	2	2	-	4	E	-	-	-	-	-	28	28	4	
6.	Phytotherapy	FAR506	PS	2	-	-	2	C	-	-	-	-	-	28	-	2	
7.	Medical emergency	FAR507	FS	2	-	-	2	C	-	-	-	-	-	28	-	2	
8.	Pharmaceutical counseling and nursing	FAR508	PS	-	-	-	-	-	2	1	-	3	C	28	14	3	
9.	Principles of nutrition. Nutraceutics	FAR509	PS	-	-	-	-	-	1	-	-	2	C	14	-	2	
10.	Probation time at a university centre, in community and hospital pharmacies	FAR510	PS	-	-	-	-	-	-	-	-	23	E	-	768**	23	
Optional subjects (one by choice)																	
11.	Pharmacogenomics	OPT	FAR511	PS	1	-	-	2	C	-	-	-	-	-	14	-	2
12.	Biological medicines	OPT	FAR512	PS													
13.	Etics and academic integrity	OPT	FAR513	CS													
TOTAL		1BS; 11PS; 1FS; 1CS			17	12	-	30	5 E; 3 C	4	1/1	-	30	2 E; 2 C	294	950/14	60
TOTAL HOURS / CREDITS SEMESTER / YEAR					29		30	5 E; 3 C		6**		30	2 E; 2 C	1258		60	

Elaboration of diploma thesis: 56 hours in Semester I and II

Ratio of theory / practical activity- 1 : 3,27 (with the probation time)

***BS-** basic subject; **PS** – professional subject; **FS** – field subject; **CS** – complementary subject; **OPT** – optional subject

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** 768 hours (14 weeks x 32 hours = 448 hours, 8 weeks x 40 hours = 320 hours) (32 hours = 4 days/week x 8 hours/day; 40 hours = 5 days/week x 8 hours/day)