

**CURRICULUM – 1st year
2022-2023**

UNIVERSITY	„GEORGE EMIL PALADE” UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU MUREȘ	SPECIALISATION	MEDICAL CHEMISTRY
FACULTY	FACULTY OF PHARMACY	TITLE	MEDICINAL CHEMIST
FIELD OF STUDY	CHEMISTRY	DURATION	3 YEARS
LEVEL OF REGULATION	GENERAL	ECTS	60+5 / YEAR - 180+5 / COMPLETION OF STUDIES

No.	Educational activities Disciplines	Code/ Type of disciplines */**	1 st Semester								2 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.	Ind. study	ECTS
			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				
1.	General chemistry	CHM101/ FD	4	4	6	E	-	-	-	-	-	-	-	-	-	-	-	-	28	28	94	6
2.	General physics	CHM102/ CD	4	4	4	V	-	-	-	-	-	-	-	-	-	-	-	-	28	28	44	4
3.	Mathematics and informatics	CHM103/ CD	6	4	5	V	-	-	-	-	-	-	-	-	-	-	-	-	42	28	55	5
4.	Inorganic chemistry	CHM104/ FD	-	-	-	-	4	4	6	E	-	-	-	-	-	-	-	-	28	28	94	6
5.	Structure and properties of molecules	CHM105/ FD	-	-	-	-	4	4	4	E	-	-	-	-	-	-	-	-	28	28	44	4
6.	Fundamentals of organic chemistry	CHM106/ FD	-	-	-	-	4	2	3	V	-	-	-	-	-	-	-	-	28	14	33	3
7.	Organic chemistry I - compounds with simple functions	CHM107/ FD	-	-	-	-	-	-	-	-	4	4	6	E	-	-	-	-	28	28	94	6
8.	Thermodynamics and electrochemistry	CHM108/ FD	-	-	-	-	-	-	-	-	4	4	5	E	-	-	-	-	28	28	69	5
9.	Chemical kinetics	CHM109/ FD	-	-	-	-	-	-	-	-	4	4	4	E	-	-	-	-	28	28	44	4
10.	Organic Chemistry II - multifunctional and heterocyclic organic compounds	CHM110/ FD	-	-	-	-	-	-	-	-	-	-	-	-	4	4	6	E	28	28	94	6
11.	Qualitative analytical chemistry	CHM111/ FD	-	-	-	-	-	-	-	-	-	-	-	-	4	4	6	E	28	28	94	6
12.	Physical education	CHM112/ CD	-	4	2	-	-	-	-	-	-	-	-	-	-	4	3	V	-	56	69	5
13.	Modern languages	CHM113/ CD	-	-	-	-	-	-/4	2	-	-	-/4	3	V	-	-	-	-	-	56	69	5
GRAND TOTAL			14	16	17	1E; 2V	12	10/4	15	2E; 1V	12	12/4	18	3E; 1V	8	12	15	2E; 1V	322	350/56	897	60+5
TOTAL HOURS/CREDITS			28 hours/ week; 30+2 ECTS								24 hours/ week; 30+3 ECTS								728			

Ratio theory / practical activity – 1 : 1,26

*FD– fundamental discipline; SD – specialty discipline; DD – domain discipline; CD – complementary discipline - 9 FD + 4 CD

E – exam; V – verification; Lect.- Lecture; P – project presentation; PA – practical activities, Sem. – seminar, Ind. study – independent study, ECTS – Transferable European Credits

RECTOR,
Prof. univ. dr. Leonard Azamfirei

VICERECTOR,
Prof. univ. dr. Klara Brînzaniuc

DEAN,
Prof. univ. dr. Daniela-Lucia Muntean

CHIEF SECRETARY,
Ec. Simona Biriș

Prof. univ. dr. Cristina-Oana Mărginean

**CURRICULUM – 2nd year
2022-2023**

UNIVERSITY	„GEORGE EMIL PALADE” UNIVERSITY OF MEDICINE, PHARMACY, SCIENCE AND TECHNOLOGY OF TÂRGU MUREŞ	SPECIALISATION	MEDICAL CHEMISTRY
FACULTY	FACULTY OF PHARMACY	TITLE	MEDICINAL CHEMIST
FIELD OF STUDY	CHEMISTRY	DURATION	3 YEARS
LEVEL OF REGULATION	GENERAL	ECTS	60/ YEAR - 180+5 / COMPLETION OF STUDIES

No	Educational activities Disciplines	Code/ Type of disciplines */**	1 st Semester								2 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.	Ind. study	ECTS
			Lect.	PA/ Sem.	ECTS	Type of Assessment	Lect.	PA/ Sem.	ECTS	Type of Assessment	Lect.	PA/ Sem.	ECTS	Type of Assessment	Lect.	PA/ Sem.	ECTS	Type of Assessment				
1.	Physico-chemical bases of chemical technology	CHM201/ FD	4	4	6	E	-	-	-	-	-	-	-	-	-	-	-	-	28	28	94	6
2.	Fundamentals of cell biology	CHM202/ SD	4	4	6	E	-	-	-	-	-	-	-	-	-	-	-	-	28	28	94	6
3.	Biochemistry	CHM203/ CD	-	-	-	-	6	4	7	E	-	-	-	-	-	-	-	-	42	28	105	7
4.	Quantitative analytical chemistry	CHM204/ FD	-	-	-	-	4	6	7	E	-	-	-	-	-	-	-	-	28	42	105	7
5.	Instrumental analysis	CHM205/ FD	-	-	-	-	-	-	-	-	4	4	5	E	-	-	-	-	28	28	69	5
6.	The human anatomy and physiology	CHM206/ SD	-	-	-	-	-	-	-	-	4	4	4	E	-	-	-	-	28	28	44	4
7.	Drug chemistry - relationship structure - biological activity	CHM207/ SD	-	-	-	-	-	-	-	-	-	-	-	-	6	6	7	E	42	42	91	7
8.	Pharmacology	CHM208/ SD	-	-	-	-	-	-	-	-	-	-	-	-	4	4	6	E	28	28	94	6
9.	Optional pack 1	CHM209.1/ SD	4	4	4	V	-	-	-	-	-	-	-	-	-	-	-	-	28	28	44	4
10.	Optional pack 2	CHM209.2/ SD	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	V	28	28	44	4
11.	Integrated professional practice (4 weeks) 30 hours (6 hours x 5 days)/week	CHM 210/ SD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	V	-	120	(20)	4
GRAND TOTAL			12	12	16	2E; 1V	10	10	14	2E; -V	8	8	9	2E; -V	14	14	21	2E; 2V	308	428	764	60
TOTAL HOURS/CREDITS			22 hours/ week; 30 ECTS								22 hours/ week.; 30 ECTS								736			

Ratio theory / practical activity – 1 : 1 (calculated without specialized practice)

***FD**– fundamental discipline; **SD** – specialty discipline; **DD** – domain discipline; **CD** – complementary discipline - **3 FD + 7 SD + 1 CD**

E – exam; **V** – verification; **Lect.**- Lecture; **P** – project presentation; **PA** – practical activities, **Sem.** – seminar, **Ind. study** – independent study, **ECTS** – Transferable European Credits

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OPTIONAL DISCIPLINES PACKAGES

2nd year of study, Academic year 2022-2023
Pack 1 – Code: CHM209.1
1. Microbiology – Code: CHM209.1.1
2. Biotechnology – Code: CHM209.1.2
Pack 2 – Code: CHM209.2
1. Analysis laboratory management – Code: CHM209.2.1
2. Quality assurance and quality control – Code: CHM209.2.2

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