

CURRICULUM **
Year of study I

Code	Disciplines*	Type	Sem. I [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
STII-0217	General chemistry	FD	2	-	2	-	56	Ex	4	44	
STII-0752	Basics of inorganic chemistry	FD	2	-	2	-	56	Ex	6	94	
STII-0203	Basic Organic Chemistry	FD	3	-	2	-	70	Ex	6	80	
STII-0051	Mathematics I (Algebra and geometry)	CD	1	1	-	-	28	Ex	3	47	
STII-0137	Physics I (Molecular Physics and Heat)	CD	2	-	1	-	42	Ex	5	83	
STII-0266	Computer science	CD	1	-	2	-	42	Cv	4	58	
STII-0465	English I	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		11	2	9	-	308		30	442	
STII-0651	Sport I	CD	-	1	-	-	14	A/R	3	61	
	FACULTATIVE										
STII-0511	Second Foreign Language I	CD	-	-	1	-	14	Vp	2	36	

Code	Disciplines*	Type	Sem. II [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
STII-0763	Chemistry of non-metals	FD	2	-	2	-	56	Ex	4	44	
STII-0220	Organic Chemistry simple functions	FD	2	-	2	-	56	Ex	5	69	
STII-0206	Qualitative Analytical Chemistry	FD	2	-	2	-	56	Ex	5	69	
STII-0138	Physics II (Electricity and magnetism, optics)	CD	2	-	1	-	42	Ex	4	58	
STII-0052	Mathematics II (Mathematical Analysis)	CD	1	1	-	-	28	Ex	3	47	
STII-0233	Mechanisms of Reactions in Organic Chemistry	SD	2	2	-	-	56	Ex	4	44	
STII-0466	English II	CD	-	1	-	-	14	Vp	2	36	
STII-0786	Traineeship I	SD	-	-	-	-	60	Cv	3	15	
	TOTAL		11	4	7	-	368		30	382	
STII-0652	Sport II	CD	-	1	-	-	14	A/R	3	61	
	FACULTATIVE										
STII-0512	Second Foreign Language II	CD	-	-	1	-	14	Vp	2	36	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;
 GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice; DR - Disciplines relevant to the students' training in a certain field, available according to the options of the institution.
 Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
Associate Professor dr.ing. BADEA Gabriela Elena

RECTOR,
Professor Dr. BUNGĂU Constantin

DEAN,
Professor Dr. MACOCIAN Eugen-Victor

CURRICULUM **
Year of study II

Code	Disciplines*	Type	Sem. III [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
STII-0753	Metal chemistry	FD	2	-	2	-	56	Ex	6	94	
STII-0219	Organic Chemistry mix functions and heterocyclic compounds	FD	2	-	2	-	56	Ex	6	94	
STII-0207	Quantitative Analytical Chemistry	FD	2	-	2	-	56	Ex	6	94	
STII-0754	The structure and properties of molecules	FD	2	-	2	-	56	Ex	5	69	
STII-0467	English III	CD	-	1	-	-	14	Vp	2	36	
TOTAL			8	1	8	-	238		25	387	
OBLIGATORII OPȚIONALE											
STII-0671	Trace analysis techniques	SD	2	-	3	-	70	Ex	5	55	
STII-0672	Catalysis	SD	2	-	3	-	70	Ex	5	55	
TOTAL			2	-	3	-	70		5	55	
STII-0653	Sport III	CD	-	1	-	-	14	A/R	3	61	
FACULTATIVE											
STII-0513	Second Foreign Language III	CD	-	1	-	-	14	Vp	2	36	
STII-0470	History of sciences	CD	1	1	-	-	28	Cv	3	47	

Code	Disciplines*	Type	Sem. IV [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
STII-0755	Instrumental analysis	FD	2	-	2	-	56	Ex	5	69	
STII-0756	Chemical thermodynamics	FD	2	-	2	-	56	Ex	5	69	
STII-0757	Physico-chemical bases of Chemical Technology	FD	2	-	2	-	56	Ex	5	69	
STII-0391	Biochemistry I	CD	2	-	2	-	56	Ex	5	69	
STII-0468	English IV	CD	-	1	-	-	14	Vp	2	36	
STII-0787	Traineeship II	SD	-	-	-	-	90	Cv	3	0	
TOTAL			8	1	8	-	328		25	312	
OBLIGATORII OPȚIONALE											
PACHET 1											
STII-0231	Electrochemistry	SD	2	-	3	-	70	Ex	4	30	
STII-0673	Advanced techniques in instrumental analysis	SD	2	-	3	-	70	Ex	4	30	
PACHET 2											
STII-0765	Academic Ethics and Integrity	CD	1	-	-	-	14	Cv	1	11	
STII-0794	Antreprenorship in Natural Sciences Domain	CD	1	-	-	-	14	Cv	1	11	
TOTAL			3	-	3	-	84		5	41	
STII-0654	Sport IV	CD	-	1	-	-	14	A/R	3	61	
FACULTATIVE											
STII-0514	Second Foreign Language IV	CD	-	1	-	-	14	Vp	2	36	
STII-0295	Human Anatomy and physiology	CD	2	-	1	-	42	Cv	4	58	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;
 GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice; DR - Disciplines relevant to the students' training in a certain field, available according to the options of the institution.
 Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
Associate Professor dr.ing. BADEA Gabriela Elena

RECTOR,
Professor Dr. BUNGĂU Constantin

DEAN,
Professor Dr. MACOCIAN Eugen-Victor

CURRICULUM **
Year of study III

Code	Disciplines*	Type	Sem. V [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
STII-0758	Chemical kinetics	FD	2	-	2	-	56	Ex	6	94	
STII-0759	Methods of separation	FD	2	-	2	-	56	Ex	6	94	
STII-0248	Biochemistry II	CD	2	-	2	-	56	Cv	6	94	
TOTAL			6	-	6	-	168		18	282	
OBLIGATORII OPȚIONALE											
PACHET 1											
STII-0226	Natural Compounds	SD	2	-	3	-	70	Ex	6	80	
STII-0224	Biological Active Compounds	SD	2	-	3	-	70	Ex	6	80	
PACHET 2											
STII-0227	Organometallic compounds	SD	2	-	3	-	70	Ex	6	80	
STII-0213	Compounds Coordinative Chemistry	SD	2	-	3	-	70	Ex	6	80	
TOTAL			4	-	6	-	140		12	160	
FACULTATIVE											
STII-0764	Drug chemistry	SD	2	-	2	-	56	Ex	5	69	
STII-0792	Life skills	CD	1	-	-	-	14	Vp	1	11	
STII-0793	Career Coaching	CD	1	-	-	-	14	Vp	1	11	

Code	Disciplines*	Type	Sem. VI [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
OBLIGATORII IMPUSE											
STII-0204	Chemistry of materials	SD	2	-	2	-	48	Ex	5	77	
STII-0413	Elaboration of degree theses	SD	-	-	2	-	24	A/R	4	76	
TOTAL			2	-	4	-	72		9	153	
OBLIGATORII OPȚIONALE											
PACHET 1											
STII-0405	Environmental chemistry	SD	2	-	2	-	48	Ex	5	77	
STII-0760	Quality assurance and standardization	SD	2	-	2	-	48	Ex	5	77	
PACHET 2											
STII-0761	Chemical technology	SD	2	-	2	-	48	Ex	5	77	
STII-0234	Chromatographic methods of analysis	SD	2	-	2	-	48	Ex	5	77	
PACHET 3											
STII-0675	Nuclear Chemistry	SD	2	2	-	-	48	Ex	5	77	
STII-0676	The structure of inorganic compounds	SD	2	2	-	-	48	Ex	5	77	
PACHET 4											
STII-0225	Macromolecular Compounds	SD	2	-	3	-	60	Cv	6	90	
STII-0223	Colloids	SD	2	-	3	-	60	Cv	6	90	
TOTAL			8	2	7	-	204		21	321	
FACULTATIVE											
STII-0751	Clinical Biochemistry	CD	1	-	2	-	36	Cv	3	39	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;
 GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice; DR - Disciplines relevant to the students' training in a certain field, available according to the options of the institution.
 Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
 Associate Professor dr.ing. BADEA Gabriela Elena

RECTOR,
 Professor Dr. BUNGAU Constantin

DEAN,
 Professor Dr. MACOCIAN Eugen-Victor

VIII. DISTRIBUTION OF CREDITS ACCORDING TO COMPETENCES (TABLES NRQHE /ARACIS - Grid 1 *)

No.	Discipline**	Sem.	Number of credits	Professional Competences						Transversal Competences			
				C1	C2	C3	C4	C5	C6	CT1	CT2	CT3	
1.	Chimie generală	I	4	1	1	1						1	
2.	Bazele chimiei anorganice	I	6	1	1	1	1				1	1	
3.	Bazele chimiei organice	I	6	1	1	1	1				1	1	
4.	Matematică I (algebră și geometrie)	I	3			1	1					1	
5.	Fizică I (fizică moleculară și căldură)	I	5	1	1	1	1					1	
6.	Informatică	I	4				1			1		1	1
7.	Limba engleză I	I	2										2
8.	Educație fizică I	I	3							2	1		0
9.	A doua limba străină I	I	2										2
10.	Chimia metalelor	II	4	1	1	1			1				
11.	Chimie organică funcțiuni simple	II	5	1	1			1	1	1			
12.	Chimie analitică calitativă	II	5			1	1	1	1	1			
13.	Fizică II (electricitate, magnetism, optică)	II	4	1		1	1					1	
14.	Matematica II (analiză matematică)	II	3			1	1					1	
15.	Mecanisme de reacție în chimia organică	II	4	2						1			1
16.	Limba engleză II	II	2										2
17.	Practică de specialitate I	II	3					1	1	1			
18.	Educație fizică II	II	3							2	1		
19.	A doua limba străină II	II	2										2
20.	Chimia metalelor	III	6	1	1	1	1		1	1			
21.	Chimie organică funcțiuni mixte și compuși heterociclici	III	6	1	1	1	1		1	1			
22.	Chimie analitică cantitativă	III	6	1		2		1	1	1			
23.	Structura și proprietățile moleculelor	III	5	1	1	1		1				1	
24.	Limba engleză III	III	2										2
25.	Educație fizică III	III	3							2	1		
26.	Tehnici de analiză în urme	III	5	1	1			1	1	1			
27.	Cataliza	III	5			1		2	1	1			
28.	A doua limba străină III	III	2										2
29.	Istoria științei	III	3								2	1	
30.	Analiza instrumentală	IV	5	1		1		1	1	1			
31.	Termodinamica chimică	IV	5	1		1	1	1		1			
32.	Bazele fizico-chimice ale tehnologiei chimice	IV	5			1	1	1		1	1		
33.	Biochimie I	IV	5		1	1	1	1		1			
34.	Limba engleză IV	IV	2										2
35.	Practică de specialitate II	IV	3					1	1	1			
36.	Educație fizică IV	IV	3							2	1		
37.	Electrochimie	IV	4			1	1	1		1			
38.	Tehnici avansate în analiza instrumentală	IV	4			1		1	1	1			
39.	Etică și integritate academică	IV	1									1	
40.	Antreprenariat în domeniul Științe ale naturii	IV	1									1	
41.	A doua limba străină IV	IV	2										2
42.	Anatomia și fiziologia omului	IV	4							2	2		
43.	Cinetică chimică	V	6	1		2	1	1	1				
44.	Metode de separare	V	6	1		1	1	1	1	1			
45.	Biochimie II	V	6		1	1	1	1	1	1			
46.	Compuși naturali	V	6		1	1	1	1	1	1	1		
47.	Compuși biologic activi	V	6	1	1	1	1			1	1		
48.	Compuși organometalici	V	6	1	1	1	1			1	1		
49.	Chimie coordinativă	V	6	1	1	1	1			1	1		
50.	Chimia medicamentelor	V	5			1	1	1	1	1			
51.	Abilități de viață	V	1										1
52.	Coaching pentru carieră	V	1										1
53.	Chimia materialelor	VI	5	1	1				1	1	1		
54.	Elaborarea lucrării de licență	VI	4					1	1	1			1
55.	Chimie mediului	VI	5				1	1	1	1	1		
56.	Asigurarea calității și standardizare	VI	5			1	1	1	1	1	1		
57.	Tehnologie chimică	VI	5			1	1	1		1	1		
58.	Metode cromatografice de analiză	VI	5			1	1		1	1	1		
59.	Chimie nucleară	VI	5	1	1	1		1				1	
60.	Structura compușilor anorganici	VI	5	1		1	1			1	1		
61.	Compuși macromoleculari	VI	6	1	1	1	1	1		1	1		
62.	Coloizi	VI	6	1	1	1	1	1		1			
63.	Biochimie clinică	VI	3			1	1			1			

Legendă: C1 ÷ C5 sau C6 - Competențe profesionale; CT1 ÷ CT3 - Competențe transversale

* Se va utiliza Grila 1 (G1) care prezintă variantele: G1L și G1M corepunzătoare ciclurilor de studii de licență și masterat, în conformitate cu Ordinul MECS nr. 5703 / 18.10.2011.

** Se vor trece toate disciplinele din Planul de Învățământ