

Fundamental domain of study (DFI): Mathematics and Nature Sciences
Branch of science (RSI): Chemistry and Chemical Engineering
Bachelor area (DL): Chemical Engineering

Code FA	Code BS	Code LA	cycle	c1c2c3	a1a2	current year
10.30.50			L	090	17	17

EDUCATIONAL PLAN
2017 - 2021

	FIRST YEAR										SECOND YEAR																									
	1st SEMESTER					2nd SEMESTER					3rd SEMESTER					4th SEMESTER																				
1	Algebra and Geometry					Physics					Fundamentals of Electrical and Electronic Engineering					Microeconomy																				
	L090.17.0R.F1	4	E	28	28	0	0	DF	56	L090.17.0R.F1	5	E	42	14	14	0	DF	56	L090.17.0R.D1	3	D	28	0	14	0	DD	48	L090.17.0R.C1	3	D	28	14	0	0	DC	50
2	Material Sciences					Mathematical analysis					Computer Assisted Mathematics					Hydrodynamics																				
	L090.17.0R.D2	5	E	28	0	28	0	DD	28	L090.17.0R.F2	4	E	28	28	0	0	DF	56	L090.17.0R.F2	4	D	28	14	14	0	DF	56	L090.17.0R.D2	4	E	28	14	14	0	DD	44
3	Inorganic Chemistry I					Inorganic Chemistry II					Organic Chemistry I					Organic Chemistry II																				
	L090.17.0R.D3	5	E	28	28	14	0	DD	57	L090.17.0R.D3	5	E	42	14	14	0	DD	57	L090.17.0R.D3	6	E	35	14	42	0	DD	79	L090.17.0R.D3	5	E	35	0	28	0	DD	52
4	Computer programming and applications					Analytical Chemistry I					Physical Chemistry I					Biochemistry																				
	L090.17.0R.F4	5	D	28	0	42	0	DF	60	L090.17.0R.D4	5	E	28	0	28	0	DD	56	L090.17.0R.F4	4	E	28	14	0	0	DF	42	L090.17.0R.F4	2	D	14	14	0	0	DF	26
5	General Chemistry					Fundamentals of Mechanical Engineering					Analytical Chemistry II					Electrochemistry																				
	L090.17.0R.F5	5	E	28	14	14	0	DF	47	L090.17.0R.D5	3	D	28	14	0	0	DD	66	L090.17.0R.D5	5	E	28	0	28	0	DD	56	L090.17.0R.D5	4	D	28	0	28	0	DD	44
6	Culture and Civilization					Computer Assisted Technical Graphics					The structure and properties of molecules					Physical Chemistry II																				
	L090.17.0R.C6	2	D	14	14	0	0	DC	24	L090.17.0R.F6	4	D	14	0	28	0	DF	60	L090.17.0R.S6	4	E	21	0	28	0	DS	51	L090.17.0R.F6	6	E	35	14	28	0	DF	42
7	Foreign languages					Foreign languages					Design and Calculation of Chemical Equipment					Instrumental Analytical Chemistry																				
	L090.17.0R.C7	2	D	0	28	0	0	DC	56	L090.17.0R.C7	2	D	0	28	0	0	DC	56	L090.17.0R.D7	2	D	14	0	14	0	DD	22	L090.17.0R.D7	4	E	28	0	28	0	DD	56
8	Physical education					Physical education					Physical education					Physical education																				
	L090.17.0R.C8	2	D	0	14	0	0	DC		L090.17.0R.C8	2	D	0	14	0	0	DC		L090.17.0R.C8	2	D	0	14	0	0	DC		L090.17.0R.C8	2	D	0	14	0	0	DC	
9	Facultative course 1					Facultative course 2					Facultative course 3					Facultative course 4																				
	L090.17.0R.f9-ij							f		L090.17.0R.f9-ij							f		L090.17.0R.f9-ij							f		L090.17.0R.f9-ij						f		
total/ sem.	hours:	378			VPI:	328			hours:	378			VPI:	407			hours:	378			VPI:	354			hours:	392			VPI:	314						
	credits:	30			ratings:	4E, 4D			credits:	30			ratings:	4E, 4D			credits:	30			ratings:	4E, 4D			credits:	30			ratings:	4E, 4D						
total/ week	hours:	27							hours:	27							hours:	27							hours:	28										
	of which:				11	9	7	0	(c, s, l, p)	of which:				13	8	6	0	(c, s, l, p)	of which:				13	4	10	0	(c, s, l, p)	of which:				14	5	9	0	(c, s, l, p)

RECTOR,
Prof. univ. dr. ing. Viorel-Aurel ȘERBAN

DEAN,
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**FACULTATIVE COURSES
2017 - 2021**

	FIRST YEAR										SECOND YEAR																									
	1st SEMESTER					2nd SEMESTER					3rd SEMESTER					4th SEMESTER																				
01	Psychology of Education										Pedagogics I					Pedagogics II					Didactics															
	L090.17.0R.f9-01	5	E	28	28	0	0	f	70	L090.17.0R.f9-01	5	E	28	28	0	0	f	60	L090.17.0R.f9-01	5	E	28	28	0	0	f	60	L090.17.0R.f9-01	5	E	28	28	0	0	f	60
02											Volunteering										Volunteering															
										L090.17.0R.f9-02	2	C	0	0	28	0	f	40									L090.17.0R.f9-02	2	C	0	0	28	0	f	40	
03																					Social responsibility and civic activism															
																			L090.17.0R.f9-03	2	E	28	28	0	0	f	40									
total/sem.	hours:	56		VPI:					70	hours:	84		VPI:					100	hours:	56		VPI:				60	hours:	140		VPI:				140		
	credits:	5		ratings:						credits:	7		ratings:						credits:	5		ratings:					credits:	9		ratings:						
total/week	hours:	4								hours:	6								hours:	4							hours:	10								
	of which:		2	2	0	0			(c, s, l, p)	of which:		2	2	2	0				(c, s, l, p)	of which:		2	2	0	0			(c, s, l, p)	of which:	4	4	2	0		(c, s, l, p)	

Legend

Name of discipline									
Code	nc	FE	c	s	l	p	CF	VPI	

Cod = discipline code
nc = nr. of transferable credits
FE = assessment form
FE ∈ {E, D, C, P-E, P-D}
E=exam
D=distributed assessment
C=colloquy
P - E - autonomous project rated like the disciplines with exam
P - D - autonomous project rated like the disciplines with distributed assessment
c=nr. of course hours / semester

s=nr.hours seminar
l=nr.ore laboratory
p=nr.hours project
CF=formative category it belongs discipline
CF ∈ {DC, DD, DF, DS)
DC - complementary discipline
DD - discipline in the area
DF - fundamental discipline
DS - specialty discipline
VPI = volume of hours required for individual preparation
Example

Mathematical analysis									
Cod	4	E	28	28	0	0	DF	60	

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Fundamental domain of study (DFI): Mathematics and Nature Sciences
Branch of science (RSI): Chemistry and Chemical Engineering
Bachelor area (DL): Chemical Engineering
Specialisation (S): **CHEMISTRY AND ENGINEERING OF ORGANIC SUBSTANCES, PETROCHEMISTRY AND CARBOCHEMISTRY**

Code DFL	Code RS	Code DL	Code S
10.30.50.20			

cycle	c1c2c3	a1a2	current year
L	091	17	17

EDUCATIONAL PLAN
2017- 2021

		THIRD YEAR***										FOURTH YEAR***																												
		SEMESTER 5					SEMESTER 6					SEMESTER 7					SEMESTER 8																							
1	Management	L091.17.05.D1	2	D	14	14	0	0	DD	29	Marketing	L091.17.06.D1	2	D	14	14	0	0	DD	29	Optional course V	L091.17.07.S1-ij	4	D	28	0	28	0	DS	44	Optional course VIII	L091.17.08.S1-ij	3	E	28	0	14	0	DS	36
2	Heat Transfer	L091.17.05.D2	4	E	28	0	14	14	DD	60	Mass Transfer	L091.17.06.D2	4	E	28	0	14	14	DD	47	Chemical Reactors	L091.17.07.S2	5	E	35	0	14	14	DS	54	Aided Design	L091.17.08.S2	4	E	21	0	21	0	DS	47
3	Fundamentals of Chemical Technology	L091.17.05.D3	4	D	28	0	28	0	DD	56	Automation of Chemical Processes	L091.17.06.D3	4	E	35	0	21	0	DD	47	Chemical Processes Optimization	L091.17.07.D3	5	E	28	0	28	0	DD	47	Optional course IX	L091.17.08.S3-ij	3	E	28	0	14	0	DS	36
4	Chemical Kinetics	L091.17.05.S4	4	E	28	0	28	0	DS	56	Applied Physical Chemistry	L091.17.06.D4	4	E	28	0	28	0	DD	37	Communication	L091.17.07.C4	2	D	0	14	0	0	DC	14	Optional course X	L091.17.08.S4-ij	5	E	35	0	21	0	DS	60
5	The reactions of organic compounds	L091.17.05.S5	4	E	28	0	28	0	DS	56	Fundamental processes in organic synthesis	L091.17.06.S5	4	D	28	0	28	14	DS	47	Optional course VI	L091.17.07.S5-ij	5	E	35	0	21	0	DS	69	Conducting diploma project*	L091.17.08.S5	5	D	0	0	0	182	DS	98
6	Optional course I	L091.17.05.S6-ij	4	D	28	0	28	0	DS	48	Optional course III	L091.17.06.S6-ij	4	E	28	0	21	0	DS	47	Organic Chemical Technology	L091.17.07.S6	5	E	28	0	28	14	DS	47	Diploma exam**	L091.17.08.6	10	E	0	0	0	0		
7	Optional course II	L091.17.05.S7-ij	4	E	28	0	28	0	DS	44	Optional course IV	L091.17.06.S7-ij	4	D	28	0	21	0	DS	49	Optional course VII	L091.17.07.S7-ij	4	D	28	0	21	0	DS	71										
8	Practice (120 HOURS)	L091.17.05.D8	4	C	0	0	0	0	DD	2	Practice (120 HOURS)	L091.17.06.D8	4	C	0	0	0	0	DD	2																				
9	Facultative course / discipline 1	L091.17.05.f9-ij							f		Facultative course / discipline 2	L091.17.06.f9-ij							f		Facultative course / discipline 3	L091.17.07.f9-ij							f		Facultative course / discipline 4	L091.17.08.f9-ij						f		
total/sem.	hours: 364	VPI:			351	hours: 364	VPI:			305	hours: 364	VPI:			346	hours: 364	VPI:			277																				
	credits: 30	ratings: 4E,3D,1C			8	credits: 30	ratings: 4E,3D,1C			8	credits: 30	ratings: 4E,3D,1C			8	credits: 30	ratings: 5 E, 1 D			6																				
total/săpt.	hours: 26	of which:			13	hours: 26	of which:			13.5	hours: 26	of which:			13	hours: 26	of which:			8																				
		13	1	11	1	(c, s, l, p)						13.5	1	9.5	2	(c, s, l, p)						13	1	10	2	(c, s, l, p)														

* lasting 7 weeks x 26 hours of which 2 weeks x 26 hours internship; ** consists of: a. verification of the basic and specialized knowledge; b. the exposure of the diploma / Bachelor.

***Optional courses will be chosen by students from the offer presented in the table "Optional Courses".

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**OPTIONAL COURSES / MATTER - CISOPC
2017 - 2021**

		THIRD YEAR												FOURTH YEAR																							
		SEMESTER 5						SEMESTER 6						SEMESTER 7						SEMESTER 8																	
01	Optional course I Analysis and Control	L091.17.05.S6-ij	4	D	28	0	28	0	DS	48	L091.17.06.S6-ij	4	E	28	0	21	0	DS	47	L091.17.07.S1-01	4	D	28	0	28	0	DS	44	L091.17.08.S1-01	3	E	28	0	14	0	DS	36
	Optional course I Spectroscopic and chromatographic methods	L091.17.05.S6-ij	4	D	28	0	28	0	DS	48	L091.17.06.S6-ij	4	E	28	0	21	0	DS	47	L091.17.07.S1-02	4	D	28	0	28	0	DS	44	L091.17.08.S1-02	3	E	28	0	14	0	DS	36
03	Optional course II Chemistry of Natural Compounds	L091.17.05.S7-ij	4	E	28	0	28	0	DS	44	L091.17.06.S7-ij	4	D	28	0	21	0	DS	49	L091.17.07.S5-ij	5	E	35	0	21	0	DS	69	L091.17.08.S3-03	3	E	28	0	14	0	DS	36
	Optional course II Carbochemistry	L091.17.05.S7-ij	4	E	28	0	28	0	DS	44	L091.17.06.S7-ij	4	D	28	0	21	0	DS	49	L091.17.07.S5-ij	5	E	35	0	21	0	DS	69	L091.17.08.S3-04	3	E	28	0	14	0	DS	36
05																				L091.17.07.S7-ij	4	D	28	0	21	0	DS	71	L091.17.08.S4-ij	5	E	35	0	21	0	DS	60
																					L091.17.07.S7-ij	4	D	28	0	21	0	DS	71	L091.17.08.S4-ij	5	E	35	0	21	0	DS
06																																					
07																																					
08																																					
09																																					
10																																					
11																																					
12																																					

Note: For each group of optional courses activates a number of disciplines depending on: student options, number of students and financial coverage.

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**FACULTATIVE COURSES - CISOPC
2017 - 2021**

		THIRD YEAR										FOURTH YEAR																									
		SEMESTER 5					SEMESTER 6					SEMESTER 7					SEMESTER 8																				
01	Computer Assisted Training	L091.17.05.f9-01	2	D	14	14	0	0	f	24	L091.17.06.f9-01	3	E	14	14	0	0	f	40	L091.17.07.f9-01	4	E	28	0	0	0	f	28	L091.17.08.f9-01	5	D	28	0	14	0	f	56
02	Teaching practice in mandatory secondary education 1	L091.17.05.f9-02	3	D	0	0	0	42	f	0	L091.17.06.f9-02	2	D	0	0	0	36	f	0	L091.17.07.f9-02	4	E	28	0	0	0	f	28	L091.17.08.f9-02	2	C	0	0	28	0	f	40
03											L091.17.06.f9-03	5	E	0	0	0	0	f	0																		
04											L091.17.06.f9-04	2	C	0	0	28	0	f	40																		
total/sem.	hours: 70 credits: 5	VPI: 24 ratings:		hours: 64 credits: 10		VPI: 40 ratings:		hours: 56 credits: 8		VPI: 56 ratings:		hours: 70 credits: 7		VPI: 96 ratings:																							
total/săpt.	hours: 5 of which:	1	1	0	3	(c, s, l, p)	of which:	1	1	2	3	(c, s, l, p)	of which:	4	0	0	0	(c, s, l, p)	of which:	2	0	3	0	(c, s, l, p)													

Legend									
Name of discipline									
Code	nc	FE	c	s	l	p	CF	VPI	
<p>Cod = discipline code nc = nr. of transferable credits FE = assessment form FE ∈ {E, D, C, P-E, P-D} E=exam D=distributed assessment C=colloquy P - E - autonomous project rated like the disciplines with exam P - D - autonomous project rated like the disciplines with distributed assessment c=nr. of course hours / semester</p>									
<p>s=nr.hours seminar l=nr.ore laboratory p=nr.hours project CF=formative category it belongs discipline CF∈{DC, DD, DF, DS} DC - complementary discipline DD - discipline in the area DF - fundamental discipline DS - specialty discipline VPI = volume of hours required for individual preparation</p>									
Example									
Cod	4	E	28	28	0	0	DF	60	

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