

Domain CHEMICAL ENGINEERING
First Year - Sem I

Program EXPERTISE OF CHEMICAL PRODUCTS, FOOD AND MATERIALS

Crt. No.	Courses	Code	Credit units	Hours/week					Weeks	Hours			Individual Study Total hours	Evaluation
				Semester I						Course	Aplic	Total		
				C	S	L	P	Res						
Mandatory courses														
1	Quality management and product certification. Quality assurance of chemical measurements. Aesthetics and ergonomics	UPB.11.1.4.I.I.1	6	3	1	0	0	0	14	42	14	56	94	V
2	Advanced techniques applied in food and material expertise (spectral, chromatographic, electrochemical)	UPB.11.1.4.I.I.2	5	3	0	2	0	0	14	42	28	70	55	E
3	Expertise of materials I (metallic)	UPB.11.1.4.I.I.3	4	1	0	1	0	0	14	14	14	28	72	E
4	Expertise of materials II (building, composites, polymers)	UPB.11.1.4.I.I.4	5	2	0	3	0	0	14	28	42	70	55	V
5	Research	UPB.11.1.4.I.I.5	10	0	0	0	0	12	14	0	168	168	82	V
Elective courses														
1														
2														
Statistics														
	PC, hours/week/act. (C,S,L,P,PL,individual study)		30	9	1	6	0	12	14	126	266	392	358	E / V
	hours/week/semester			28										3
Optional courses (Teaching Level II+ ...)														
1	Design and management of educational programs	UPB.11.1.4.F.I.1	5	2	1	0	0	0	14	28	14	42	83	E

First Year - Sem II

Crt. No.	Courses	Code	Credit units	Hours/week					Weeks	Hours			Individual Study Total hours	Evaluation
				Semester I						Course	Aplic	Total		
				C	S	L	P	Res						
Mandatory courses														
1	Expertise of materials III (fuels, biofuels, renewable energy sources)	UPB.11.1.4.I.II.1	4	3	0	2	0	0	14	42	28	70	30	E
2	Expertise IV Materials (waste, packaging)	UPB.11.1.4.I.II.2	4	1	0	1	0	0	14	14	14	28	72	E
3	Expertise of food I (dairy, fat, meat, fish, wine)	UPB.11.1.4.I.II.3	4	3	1	1	0	0	14	42	28	70	30	E

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4	Food Expertise II (beverages, tea, coffee)	UPB.11.1.4.I.II.4	4	1	0	1	0	0	14	14	14	28	72	E
5	Research	UPB.11.1.4.I.II.5	10	0	0	0	0	12	14	0	168	168	82	V
Elective courses														
1	Expertise of biomaterials / Expertise of coated metal surfaces	UPB.11.1.4.O.II.1	4	1	0	1	0	0	14	14	14	28	72	V
2														
Statistics														
	PC, hours/week/act. (C,S,L,P,PL,individual study)		30	9	1	6	0	12	14	14	14	28	72	E / V
	hours/week/semester			28										2
Optional courses (Teaching + ...)														
1	Psychopedagogy of adolescents, young people and adults	UPB.11.1.4.F.II.1	5	2	1	0	0	0	14	28	14	42	83	E
2	Counseling and guidance / Multimedia in education	UPB.11.1.4.F.II.2	5	1	2	0	0	0	14	14	28	42	83	E

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Second Year - Semestrul I

Crt. No.	Courses	Code	Credit units	Hours/week					Weeks	Hours			Individual Study Total hours	Evaluation
				Semester I						Course	Aplic	Total		
				C	S	L	P	Res						
Mandatory courses														
1	Expertise of special materials I (art, heritage)	UPB.11.1.4.I.III.1	5	2	0	2	0	0	14	28	28	56	69	E
2	Expertise of special Materials II (forensic evidence)	UPB.11.1.4.I.III.2	5	2	1	2	0	0	14	28	42	70	55	E
3	Expertise of chemical substances and accidents - handling and transport	UPB.11.1.4.I.III.3	6	2	2	0	0	0	14	28	28	56	94	E
4	Examination of processes at extreme temperatures and pressures	UPB.11.1.4.I.III.4	4	2	0	1	0	0	14	28	14	42	58	V
5	Research	UPB.11.1.4.I.III.6	10	0	0	0	0	12	14	0	168	168	82	V
Elective courses														
1														
2														
Statistics														
	PC, hours/week/act. (C,S,L,P,PL,individual study)		30	8	3	5	0	12	14	0	0	0	0	E / V
	hours/week/semester			28										2
Optional courses (Teaching + ...)														
1	Didactics of the field and development in specialization didactics (high school, post-secondary education)	UPB.11.1.4.F.III.1	5	2	1	0	0	0	14	28	14	42	83	E
2	Sociology of Education / Intercultural Education	UPB.11.1.4.F.III.2	5	1	2	0	0	0	14	14	28	42	83	E

Anul II - Semestrul II

Crt. No.	Courses	Code	Credit units	Hours/week					Weeks	Hours			Individual Study Total hours	Evaluation
				Semester I						Course	Aplic	Total		
				C	S	L	P	Res						
Mandatory courses														
1	Research, Work for dissertation	UPB.11.1.4.I.IV.1	28	0	0	0	0	27	14	0	378	378	322	V
2	Ethics	UPB.11.1.4.I.IV.2	2	1	0	0	0	0	14	14	0	14	36	V
Elective courses														
1									14	0	0	0	0	
2									14	0	0	0	0	
Statistics														
														E / V

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	PC, hours/week/act. (C,S,L,P,PL,individual study)		30	1	0	0	0	27	14	0	0	0	0	0
	hours/week/semester			28										2
	Optional courses (Teaching ...)													
1	Pedagogical practice (high school, post-secondary)	UPB.11.1.4.F.IV.1	5					3	14	0	42	42	83	V
2	Graduation exam, Level II	UPB.11.1.4.F.IV.2	5						2					E

Summerised		Credit units	Hours/week					Weeks	Hours			Individual Study Total hours	Evaluation
			Semester I						Course	Aplic	Total		
			C	S	L	P	Res						
Mandatory courses		114	27	5	17	0	63	14	378	1120	1498	1502	16E/8V
Elective courses		4	1	0	1	0	0	14	14	0	14	86	9
Optional courses		35	8	7	0	0	3	14	112	42	154	721	9