

Domain Chemical Engineering
Year 1 - Semester I

Study program

Advanced composite materials for special destinations

Nr. crt.	Discipline name	Code	C.s.t.	Hours/week					Weeks	Total hours			Individual study hours
				1st semester						Course	Application	Total	
				C	S	L	P	Res					
MANDATORY disciplines													
1	Matrices and reinforcement materials for high-performance composites	UPB.11.1.6.I.01.01	4	2		2	1		14	28	42	70	30
2	Usage functions derived from the composition-structure-properties correlation	UPB.11.1.6.I.01.02	4	2					14	28	0	28	72
3	Polymer matrix composite materials	UPB.11.1.6.I.01.03	4	1		2			14	14	28	42	58
4	Polymeric nanocomposites	UPB.11.1.6.I.01.04	4	2					14	28	0	28	72
5	Ceramic nanocomposites with applications in chemical industry	UPB.11.1.6.I.01.05	4	2			2		14	28	28	56	44
6	Scientific and practical research	UPB.11.1.6.I.01.06	10					12	14	0	168	168	82
OPTIONAL disciplines													
1									0	0	0	0	0
2									0	0	0	0	0
Hours statistics													
	PC, hour numbers/week/act. (C,S,L,P,PL,indiv. study)		30	9	0	4	3	12	14	126	266	392	358
	Hours / week / semester			28									
FACULTATIVE disciplines (Pedagogical Module Level II+ ...)													
1	Design and management of educational programs	UPB.11.1.6.F.01.07	5	2	1				14	28	14	42	83

Year I - Semester II

Nr. crt.	Discipline name	Code	C.s.t.	Hours/week					Weeks	Total hours			Individual study hours
				2nd semester						Course	Application	Total	
				C	S	L	P	Res					
MANDATORY disciplines													
1	Design of polymeric composite materials with recovery of polymeric materials	UPB.11.1.6.I.02.01	4	2			2		14	28	28	56	44
2	High-performance concrete composites	UPB.11.1.6.I.02.02	4	2		1			14	28	14	42	58
3	Materiale și nanomateriale compozite cu proprietăți electrice și magnetice pentru mic	UPB.11.1.6.I.02.03	4	2		1			14	28	14	42	58
4	Composite materials and nanomaterials with electrical and magnetic properties for n	UPB.11.1.6.I.02.04	4	1		1	1		14	14	28	42	58
5	Ceramic materials for the production and storage of electricity	UPB.11.1.6.I.02.05	4	2		1			14	28	14	42	58
7	Scientific and practical research	UPB.11.1.6.I.02.06	10					12	14	0	168	168	82
OPTIONAL disciplines													
1									14	0	0	0	0
2									14	0	0	0	0
Hours statistics													
	PC, hour numbers/week/act. (C,S,L,P,PL,indiv. study)		30	9	0	4	3	12	14	0	0	0	0
	Hours / week / semester			28									
FACULTATIVE disciplines (Pedagogical Module Level II+ ...)													
1	Psychopedagogy of adolescents, young people and adults	UPB.11.1.6.F.02.07	5	2	1				14	28	14	42	83
2	Counseling and guidance / Multimedia in education (Optional 1)	UPB.11.1.6.F.02.08	5	1	2				14	14	28	42	83

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Year II - Semester I

Nr. crt.	Discipline name	Code	C.s.t.	Hours/week					Weeks	Total hours			Individual study hours
				3rd semester						Course	Application	Total	
				C	S	L	P	Res					
MANDATORY disciplines													
1	Composite materials for medicine	UPB.11.1.6.I.03.01	4	2		2			14	28	28	56	44
	Procedures for immobilization / inertization of toxic waste	UPB.11.1.6.I.03.02	4	2		2			14	28	28	56	44
2	Recovery of waste in oxide materials	UPB.11.1.6.I.03.03	4	3		1			14	42	14	56	44
3	Scientific documentation, writing and presentation of a paper / scientific report and m	UPB.11.1.6.I.03.04	4				2		14	0	28	28	72
4	Project with industry and business environment for the realization of materials	UPB.11.1.6.I.03.05	4				2		14	0	28	28	72
6	Scientific and practical research	UPB.11.1.6.I.03.06	10					12	14	0	168	168	82
OPTIONAL disciplines													
1									14	0	0	0	0
2									14	0	0	0	0
Hours statistics													
	PC, hour numbers/week/act. (C,S,L,P,PL,indiv. study)		30	7	0	5	4	12	14	0	0	0	0
	Hours / week / semester			28									
FACULTATIVE disciplines (Pedagogical Module Level II+ ...)													
1	Didactics of the field and developments in the didactics of specialization (high school, post-high school education)	UPB.11.1.6.F.03.07	5	2	1				14	28	14	42	83
2	Sociology of Education / Intercultural Education (Optional 2)	UPB.11.1.6.F.03.08	5	1	2				14	14	28	42	83

Year II - Semester II

Nr. crt.	Discipline name	Code	C.s.t.	Hours/week					Weeks	Total hours			Individual study hours
				4th semester						Course	Application	Total	
				C	S	L	P	Res					
MANDATORY disciplines													
1	Scientific research, research practice and dissertation elaboration	UPB.11.1.6.I.04.01	28					27	14	0	378	378	322
1	Ethics	UPB.11.1.6.I.04.02	2	1					14	14	0	14	36
OPTIONAL disciplines													
1									14	0	0	0	0
2									14	0	0	0	0
Hours statistics													
	PC, hour numbers/week/act. (C,S,L,P,PL,indiv. study)		30	1	0	0	0	27	14	0	0	0	0
	Hours / week / semester			28									
FACULTATIVE disciplines (Pedagogical Module Level II+ ...)													
1	Pedagogical practice (high school, post-high school education)	UPB.11.1.6.F.04.03	5					3	14	0	42	42	83
2	Graduation exam, Level II	UPB.11.1.6.F.04.04	5						2				

Plan centralizer	C.s.t.	Hours/week					Weeks	Total hours			Individual study hours
		C	S	L	P	Res		Course	Application	Total	
MANDATORY disciplines	118	26	0	13	10	63	14	364	1204	1568	1432
OPTIONAL disciplines	0	0	0	0	0	0	14	0	0	0	0
FACULTATIVE disciplines	35	8	7	0	0	3	14	112	42	154	721

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