

Chemical Engineering
Year: I Semester: I

Programme of study

Quality Control and Security of Food Products

Nr. crt.	Discipline	Cod	ECTS	No. of hours/week					No. week	Total hrs.			Indiv study. total	Evaluation	
				Semester I						Cour	LP	Total			
				C	S	LP	P	Res							
Compulsory Disciplines															
1	Using of spectral methods (NMR,UV-VIS,IR,MS) for study of structure and composition of food products	UPB 11.1.12.I.01.01	4	2		3			14	28	42	70	30	E	
2	Using of chromatografic methods for studing of structure and composition of food products	UPB 11.1.12.I.01.02	4	2		2			14	28	28	56	44	E	
3	Modern methods of food processing	UPB 11.1.12.I.01.03	4	2		1			14	28	14	42	58	E	
4	Colloidal systems with applications in food processing technology	UPB 11.1.12.I.01.04	4	2					14	28	0	28	72	E	
5	Scientific research	UPB 11.1.12.I.01.05	10					12	14	0	168	168	82	V	
Optional Disciplines															
1	Elements of metabolic engineering- Organic pollutants and special decontamination techniques	UPB 11.1.12.O.01.06	4	2					14	28	0	28	72	E	
2									14	0	0	0	0		
Statistics hours compulsory															
ECTS, No.hrs./week/act. (C,S,LP,P, indiv. study)			30	10	0	6	0	12	14	112	252	364	286	E / V	
No.of hours/week/semester				28											1
Facultative Disciplines															
1	Design and management of educational programs	UPB 11.1.12.F.01.07	5	2	1				14	28	14	42	83	E	

Year: I Semester: II

Nr. crt.	Discipline	Cod	ECTS	No. of hours/week					No. week	Total hrs.			Indiv study. total	Evaluation
				Semester II						C	LP	Total		
				C	S	L	P	Res.						
Compulsory Disciplines														
1	Analysis of the mineral compounds in food products	UPB 11.1.12.I.02.01	4	1		1			14	14	14	28	72	V
2	Food Standards	UPB 11.1.12.I.02.02	4	1		1			14	14	14	28	72	V
3	Natural and synthetic food dyes	UPB 11.1.12.I.02.03	4	2		2			14	28	28	56	44	E
4	Biological control of food products	UPB 11.1.12.I.02.04	4	2					14	28	0	28	72	E
5	Disinfectants,emulsifiers and detergents with applications in food industry	UPB 11.1.12.I.02.05	4	2		2			14	28	28	56	44	E
6	Scientific research	UPB 11.1.12.I.02.06	10					12	14	0	168	168	82	V
Optional Disciplines														
1									14	0	0	0	0	
2									14	0	0	0	0	
Statistics compulsory disciplines														
PC, hours/week/act. (C, S, L, P, PL, indiv. study)			30	8	0	6	0	12	14	0	0	0	0	E / V
hours/week/semester				26										3
Facultative Disciplines														
1	Psichopedagogy of adolescents, youth and adults	UPB 11.1.12.F.02.07	5	2	1				14	28	14	42	83	E
2	Counseling and orientation/Multimedia in education (Optional 1)	UPB 11.1.12.F.02.08	5	1	2				14	14	28	42	83	E

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Year: II Semester: I

Nr. crt.	Discipline	Cod	ECTS	No. of hours/week					No. week	Total hrs.			Indiv study. total	Evaluation
				Semester III						C	LP	Total		
				C	S	L	P	Res.						
Compulsory Disciplines														
1	Quality management systems. Validation and uncertainty	UPB 11.1.12.I.03.01	4	2		1	1		14	28	28	56	44	E
2	Food security.Rules for labeling and promoting foods	UPB 11.1.12.I.03.02	4	2	2				14	28	28	56	44	E
3	Synthesis of intermediates with applications in food industry		4			3			14	0	42	42	58	V
4	Chemometric methods of analysis in food chemistry	UPB 11.1.12.I.03.03	4	2					14	28	0	28	72	E
5	Methods of isolation of natural compounds with applications in food industry	UPB 11.1.12.I.03.04	4			3			14	0	42	42	58	V
6	Scientific research	UPB 11.1.12.I.03.05	10					12	14	0	168	168	82	V
Optional Disciplines														
1									14	0	0	0	0	
2									14	0	0	0	0	
Statistics compulsory disciplines														
	PC, hours/week/act. (C, S, L, P, PL, indiv. study)		30	6	2	7	1	12	14	0	0	0	0	E / V
	hours/week/semester			28										3
Facultative disciplines														
1	Didacts of the field and developments in the field of didactics of speciality (highschool, postsecondary education)	UPB 11.1.12.F.03.06	5	2	1				14	28	14	42	83	E
2	Sociology of education/Intercultural education (Optional 2)	UPB 11.1.12.F.03.07	5	1	2				14	14	28	42	83	E

Year: II Semester: II

Nr. crt.	Discipline	Cod	ECTS	No. of hours/week					No. week	Total hrs.			Indiv study. total	Evaluation
				Semester IV						C	LP	Total		
				C	S	L	P	Res.						
Compulsory Disciplines														
1	Scientific research	UPB 11.1.12.I.04.01	28					27	14	0	378	378	322	V
1	Ethics and academic integrity	UPB 11.1.12.I.04.02	2	1					14	14	0	14	36	V
Optional Disciplines														
1									14	0	0	0	0	
2									14	0	0	0	0	
Statistics compulsory disciplines														
	PC, hours/week/act. (C, S, L, P, PL, indiv. study)		30	1	0	0	0	27	14	0	0	0	0	E / V
	hours/week/semester			28										2
Facultative Disciplines														
1	Pedagogic practice (highschool, postsecondary education)	UPB 11.1.12.F.03.03	5					3	14	0	42	42	83	V
2	Graduation examination, Level II	UPB 11.1.12.F.03.04	5						2					E

	ECTS	No. of hours/week					No. week	Total hrs.			Indiv study. total	Evaluation
		C	S	L	P	Res.		C	LP	Total		
Compulsory Disciplines	114	25	2	19	1	63	14	350	1162	1512	1488	16E/8V
Optional Disciplines	4	2	0	0	0	0	14	28	0	28	72	
Facultative Disciplines	35	8	7	0	0	3	14	112	42	154	721	

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