

**Pharmaceutical products and cosmetics**

**Year I - Semester I**

Nr. crt.	Discipline	Cod	ECTS	hrs/week					Weeks	Total hours			Indiv. Study	Evaluation	
				Semester I						Cour	Appl	Total			
				C	S	L	P	Res							
<b>Compulsory disciplines (O)</b>															
1	Reactions types in fine organic synthesis	UPB.11.1.I.01.01	4	1	2		1		14	14	42	56	44	E	
2	Applications of structural analysis by physical methods for pharmaceutical and cosmetic products	UPB.11.1.I.01.02	4	1	2	2			14	14	56	70	30	E	
3	Odorants and dyes for pharmaceutical and cosmetic products	UPB.11.1.I.01.03	4	2		1			14	28	14	42	58	E / V	
4	Advanced biochemistry	UPB.11.1.I.01.04	4	2					14	28	0	28	72	E	
5	Scientific research	UPB.11.1.O.01.05	10					12	14	0	168	168	82	V	
<b>Optional disciplines (A)</b>															
1	Optional: 1) Molecular design 2) Organometallic chemistry	UPB.11.1.O.01.06	4	1			1		14	14	14	28	72	V	
2															
<b>Statistics compulsory disciplines</b>															
	PC, hours/week/act. (C, S, L, P, PL, indiv. study)		30	7	4	3	2	12	14	98	294	392	358	4	
	hours/week/semester			28											3
<b>Facultative disciplines (L)</b>															
1	Design and management of educational programs		5	2	1				14	28	14	42	83	E	

**Year I - Semester II**

Nr. crt.	Discipline	Cod	ECTS	hrs/week					Weeks	Total hours			Indiv. Study	Evaluation	
				Semester II						Cour	Appl	Total			
				C	S	L	P	Res							
<b>Compulsory disciplines (O)</b>															
1	Synthetic drugs and fine organic syntheses	UPB.11.1.I.02.07	4	2		4			14	28	56	84	16	E / V	
2	Toxicity of pharmaceutical and cosmetic products	UPB.11.1.I.02.08	4	2					14	28	0	28	72	E	
3	Modern methods of synthesis and experimental design in drug synthesis	UPB.11.1.I.02.09	4	3	1	0			14	42	14	56	44	E / V	
4	Applications of stereochemistry in the synthesis of pharmaceutical compounds	UPB.11.1.I.02.10	4	1	1	0			14	14	14	28	72	V	
5	Scientific research	UPB.11.1.O.02.11	10					12	14	0	168	168	82	V	
<b>Optional disciplines (A)</b>															
1	Optional: 1) Marketing of pharmaceutical and cosmetic products, 2) Project management	UPB.11.1.O.02.12	4	2		0			14	28	0	28	72	V	
2															
<b>Statistics compulsory disciplines</b>															
	PC, hours/week/act. (C, S, L, P, PL, indiv. study)		30	10	2	4	0	12	14	140	252	392	358	3	
	hours/week/semester			28											5
<b>Facultative disciplines (L)</b>															
1	Psichopedagogy of adolescents, youth and adults		5	2	1				14	28	14	42	83	E	
2	Counseling and orientation/Multimedia in education (Optional 1)		5	1	2				14	14	28	42	83	E Decan,	

Rector,  
Mihnea COSTOIU

## Year II - Semester I

Nr. crt.	Discipline	Cod	ECTS	hrs/week					Weeks	Total hours			Indiv. Study	Evaluation
				Semester III						Cour	Appl	Total		
				C	S	L	P	Cerc						
<b>Compulsory disciplines (O)</b>														
1	Pharmacology	UPB.11.1.II.03.01	4	2	1				14	28	14	42	58	E
2	Pharmaceutical techniques	UPB.11.1.II.03.02	4	2		0			14	28	0	28	72	E
3	Natural products - methods of extraction and applications for pharmaceuticals and cosmetics	UPB.11.1.II.03.03	4	1		3			14	14	42	56	44	E
4	Ingredients/formulations and rules of good manufacturing practice in the production, analysis, conditioning and marketing of pharmaceuticals and cosmetics	UPB.11.1.II.03.04	4	3			1		14	42	14	56	44	E / V
5	Chromatographic separation methods and compositional control of pharmaceutical and cosmetic products	UPB.11.1.II.03.05	4	1		2			14	14	28	42	58	E
6	Scientific research	UPB.11.1.II.03.06	10					12	14	0	168	168	82	V
<b>Optional disciplines (A)</b>														
1														
2														
<b>Statistics compulsory disciplines</b>														
	PC, hours/week/act. (C, S, L, P, PL, indiv. study)		30	9	1	5	1	12	14	126	266	392	358	5
	hours/week/semester			28										2
<b>Facultative disciplines (L)</b>														
1	Didacts of the field and developments in the field of didactics of speciality (highschool, postsecondary education)		5	2	1				14	28	14	42	83	E
2	Sociology of education/Intercultural education (Optional 2)		5	1	2				14	14	28	42	83	E

## Year II - Semester II

Nr. crt.	Discipline	Cod	ECTS	hrs/week					Weeks	Total hours			Indiv. Study	Evaluation
				Semester IV						Cour	Appl	Total		
				C	S	L	P	Cerc						
<b>Compulsory disciplines (O)</b>														
1	Scientific research	UPB.11.1.II.04.07	28					27	14	0	378	378	322	V
1	Ethics and academic integrity	UPB.11.1.II.04.08	2	1					14	14	0	14	36	V
<b>Optional disciplines (A)</b>														
1									14	0	0	0	0	
2									14	0	0	0	0	
<b>Statistics compulsory disciplines</b>														
	PC, hours/week/act. (C, S, L, P, PL, indiv. study)		30	1	0	0	0	27	14	14	378	392	358	0
	hours/week/semester			28										2
<b>Facultative disciplines (L)</b>														
1	Pedagogic practice (highschool, postsecondary education)		5					3	14	0	42	42	83	V
2	Graduation examination		5						2					E

Decan,

Rector,  
Mihnea COSTOIU