

CURRICULUM

**“AL. I. CUZA” UNIVERSITY OF IASI
FACULTY OF CHEMISTRY**

**MASTER STUDIES: CHIMIE
SPECIALIZATION: CHEMISTRY OF COSMETICS AND PHARMACEUTICAL
PRODUCTS**

DURATION: 2 years

Structure of the academic year (in weeks)

	Didactic activities		Examinations		Holidays		
	I st sem.	II nd sem	I st sem.	I st sem.	Dec-Jan	Feb.	Summer
I st year	14	14	2	2	3	2	12
II nd year	14	14	2	2	3	2	-

The disciplines contained in the curriculum

Ist YEAR

No.	Course name	I st Semester				II nd Semester				Evaluation form	
		C	S	L	ECTS credits	C	S	L	ECTS credits		
1	Advanced organic chemistry	2		2	6					E	
2	Therapeutical inorganic chemistry	2		2	6					E	
3	Special chapters of biochemistry	2		2	6					E	
4	Medicines of bio and semisynthesis	2		2	6					E	
5	Optional lecture 1	2		2	6					E	
6	Electrochemical processes involved in drug activity					2		2	6		E
7	Advanced bioinorganic chemistry					2		2	6		E
8	Synthetic medicines					2		2	6		E
9	Chromatographical techniques in the analysis of medicines and cosmetics					1		3	6		E
10	Optional lecture 2					2		2	6		E
Hours per week / ECTS credits		10		10	30	9		11	30		
		20				20					

IInd YEAR

No.	Course name	I st Semester				II nd Semester				Evaluation form	
		C	S	L	ECTS credits	C	S	L	ECTS credits		
1	Colloid chemistry	2		2	6					E	
2	Biocompatible inorganic materials	2		2	6					E	
3	Analytic control of medicines and cosmetics	1		3	6					E	
4	Cosmetic chemistry	2		2	6					E	
5	Optional lecture 3	2		2	6					E	
6	Drug design					2		2	6		E
7	Molecular modeling					2		2	6		E
8	Quality management in scientific research. ISO regulations.					2		1	6		E
9	Pharmacology					2		2	6		E
10	Optional lecture 4					2		2	6		E
Hours per week / ECTS credits		9		11	30	10		9	30		
		20				19					

Optional courses

No	Course name	Sem	C	L	ECTS credits	Evaluation form
	<i>Advanced physical chemistry</i>					
2	<i>Biocompatible nanomaterials</i>	2	2	2	6	E
	<i>Biotechnological processes in pharmaceutical industry</i>					
3	<i>Strategies in organic synthesis</i>	3	2	2	6	E
	<i>Synthesis and retrosynthesis</i>					
4	<i>Radiopharmaceutic compounds</i>	4	2	2	6	E
	<i>Inorganic compounds used in formulation and conditioning of cosmetic and pharmaceutical products</i>					

Elective courses within the Department of Didactic Personnel Training

No.	Name of the discipline				Hours per week					Ev. form	ECTS credits
		Year	Sem	Weeks	C	A	C	A	Total		
1	<i>Psychopedagogy of teenagers, youngs and adults</i>	I	1	14	2	1	28	14	42	E	5
2	<i>Design and management of educational programmes</i>	I	2	14	2	1	28	14	42	E	5
3	<i>Didactics and recent advances in didactics of the field</i>	II	1	14	2	1	28	14	42	E	5
4	<i>Pedagogical traineeship</i>	II	1	14	-	3	-	42	42	C	5
5	<i>Optional package 1</i> - Counseling and orientation - Educational communication - Methodology of the educational research - Integrated education	I	1	14	1	2	14	28	42	E	5
6	<i>Optional package 2</i> - Fundamentals of special psychopedagogy - Management of school organization - Intercultural education - Contemporary pedagogical doctrines	I	2	14	1	2	14	28	42	E	5
TOTAL – Level II		-	-	-	-	-	112	140	252	5E+1C	30
<i>Graduation examination: Level II</i>		II	4	2	-	-	-	-	-	E	5