

CURRICULUM

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

MASTER STUDIES: CHIMIE

SPECIALIZATION: ENVIRONMENT CHEMISTRY AND FOOD SAFETY

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	Coordination compounds in natural systems and environment protection	2		2	6					E	
2	Enzymatic kinetics	2		2	6					E	
3	Optional 1	2		2	6					E	
4	Advanced topics in organic chemistry	2		2	6					E	
5	Chemical energetics applied in natural systems	2		2	6					E	
6	Natural compounds					2		2	6		E
7	Enzymology					2		2	6		E
8	Optional 2					2		2	6		E
9	Enzymatic processes in environment and food					2		2	6		E
10	Pollutants					2		2	6		E
Hours per week / ECTS credits		10		10	30	10		10	30		
		20		30		20		30			

IInd YEAR

No.	Course name	I st Semester				II nd Semester				Evaluation form	
		C	S	L	ECTS credits	C	S	L	ECTS credits		
1	Fragrances, aromatization compounds and food additives	2		2	6					E	
2	Green chemistry	2		2	6					E	
3	Phase transitions in natural systems	2		2	6					E	
4	Optional 3	2		2	6					E	
5	Water and soil chemistry	2		2	6					E	
6	Bioactive natural products					2		2	6		E
7	Chain reactions in environmental chemistry					2		2	6		E
8	Quality management in scientific research. ISO regulations.					2		1	6		E
9	Educational environmental strategies					2		2	6		E
10	Optional 4					2		2	6		E
Hours per week / ECTS credits		10		10	30	10		9	30		
		20		30		19		30			

Optional courses

No.	Course name					Evaluation form
		Sem	C	L	ECTS credits	
1	<i>Food chemistry</i>	1	2	2	6	E
2	<i>Analytical toxicology</i> <i>Speciation analysis</i>	2	2	2	6	E
3	<i>Food analytical control</i>	3	2	2	6	E
4	<i>Radioisotopes and radioactive methods in analysis of natural systems</i> <i>Inorganic structural analysis</i>	4	2	2	6	E

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