Politehnica University of Bucharest
Faculty of Applied Chemistry and Material Science

MASTER PROGRAM
LIFE SCIENCES AND ECOLOGY

1st year - 1st semester

Discipline name	Cod	Hours/week					
		C	S	L	P	cst	Type of eval (E/V/P)
Concepts and Strategies in Modern Chemistry	UPB.11.S.09.O.1301	2		1		5	E
Bioinorganic Chemistry	UPB.11.S.09.O.1302	2		1		5	E
Applied Microbiology	UPB.11.S.09.O.1303	1		1		3	V
Physical Chemistry Applied For Life Sciences And Ecology	UPB.11.S.09.O.1304	1		1		3	E
Ecology	UPB.11.S.09.O.1305	1		1		3	V
Biophysics	UPB.11.S.09.O.1306	1		1		3	V
Informatics for Life Science	UPB.11.S.09.O.1307	1		1		3	V
Research	UPB.11.T.09.O.1308	12				5	V
		9		**7**		**30**	

1st year - 2nd semester

Discipline name	Cod	Hours/week					
		C	S	L	P	cst	Type of eval (E/V/P)
Hybrid Materials	UPB.11.S.10.O.1309	2		1		3	E
Biopolymers	UPB.11.S.10.O.1310	1		1		3	E
Biosafety And Nutraceutical Products	UPB.11.S.10.O.1311	1		1		3	V
Pharmaceutical Chemistry	UPB.11.S.10.O.1312	1		1		3	E
Cellular Automata in Chemistry and Ecology	UPB.11.S.10.O.1313	1				3	V
Depollution by recovery techniques	UPB.11.S.10.O.1314	1		1		3	V
Electrochemical Phenomena in Natural Sciences	UPB.11.S.10.O.1315	1		1		3	V
Environmental Policy	UPB.11.S.10.O.1316	1	1			3	V
Research	UPB.11.T.10.O.1317	12				6	V
		9		**7**		**30**	

2nd year - 3rd semester

Discipline name	Cod	Hours/week					Type of eval (E/V/P)
		C	S	L	P	cst	
Nanostructuring and biomimetism	UPB.11.S.11.O.1301	1		2		4	E
Green Chemistry	UPB.11.S.11.O.1302	1		1		4	E
Ecotoxicology	UPB.11.S.11.O.1303	1		1		3	V
Supramolecular Chemistry	UPB.11.S.11.O.1304	1		1		3	V
Functional Compounds in Pollution Control / Techniques for Depollution and Recovery. Ion exchange **Optional 1**	UPB.11.S.11.O.1306	1		1		4	V
Introduction In Bioanalysis / Quality Control And Accreditation Of Chemical Analysis Laboratories **Optional 2**	UPB.11.S.11.O.1307	1		1		3	E
Catalysts and catalytic processes for environmental depollution and pollution prevention/Clean Energy Sources **Optional 3**	UPB.11.S.11.O.1308	1				3	V
Research	UPB.11.T.11.O.1305	14				6	V
		7		**7**		**30**	

2nd year - 4th semester

Discipline name	Cod	Hours/week					Type of eval (E/V/P)
		C	S	L	P	cst	
Research / Dissertation elaboration	UPB.11.S.12.O.1309	14				30	V
		14				**30**	
Defending of the dissertation paper						**10**	

RECTOR

Mihnea COSTOIU

DEAN

Prof.dr. ing. Cristina ORBECI