



1 Pasteura Str., 02-093 Warsaw, Poland

MASTER PROGRAM, Chemistry - 2016/2017 First Semester (1M)

A. Basic Courses

Mandatory Classes									
Nº	Course Title	No. of Hours	Lecture	Laboratory	ECTS credits	Form of competion			
1.	Theoretical Chemistry A	75	30	45	7.5	Exam			
2.	Instrumental Analysis	75	30	45	7.5	Exam			
3.	Molecular Spectroscopy A	60	30	30	6	Exam			
4.	Crystallography A	30	10	20	3	Exam			
5.	Directional Course (PK)	60	0/30	60	6	Completion with a grade			
	Total (mandatory)	300/330			30				

B. Elective Courses

Electives									
N°	Course Title	No. of Hours	Lecture	Laboratory	ECTS credits	Form of competion			
6.	Organic Chemistry	30	30		3	Exam			
7.	Inorganic Chemistry	30	30		3	Exam			
8.	Physical Chemistry	30	30		3	Exam			
9.	Nuclear Chemistry	30	30		3	Exam			
10.	Laboratory of Physical Chemistry	120		120	10	Completion with a grade			
11.	PK1: Physics and Chemistry of New Materials – laboratory	60		60	6	Completion with a grade			
12.	PK2: Theoretical Chemistry - laboratory	60		60	6	Completion with a grade			
13.	PK3: Organic Synthesis - laboratory	60		60	6	Completion with a grade			
14.	PK4: Environmental Analysis	90	30	60	6	Completion with a grade			
15.	PK5: Crystallography – laboratory	60		60	6	Completion with a grade			
16.	PK6: Polymers and Biomaterials – laboratory	60		60	6	Completion with a grade			

Note: During the second degree chemistry studies student is obliged to obtained: (a) at least 6 ECTS and not more than 8 ECTS for subjects that are not related to the field of studies (general courses), including general university subjects from the areas of humanities and social sciences minimum 5 ECTS, and (b) during the first three semesters - 1 ECTS in the context of physical exercises course.

Each year a student is expected to accumulate 60 ECTS credits (however, minimum 30 ECTS credits per a semester). Therefore, for M.Sc. a student has to obtain 120 ECTS credits (2 years x 60 points).

Total number of hours: 300 / 330 Total number of ECTS credits: 30

Other classes of the semester 1M needed to obtain the required number of credits must be selected from a list of dedicated subject to second-degree students majoring in chemistry (implemented in the fall semester.)

Note: During the second cycle student of the Chemistry Department is required to include subjects unrelated to their field of study (general university) in an amount not less than 6 credits and not more than 8 ETSC.

Supervisor: dr hab. Beata Krasnodębska-Ostręga



UNIVERSITY OF WARSAW

Faculty of Ehemistry

1 Pasteura Str., 02-093 Warsaw, Poland

MASTER PROGRAM, Chemistry - 2016/2017 Second Semester (2M)

	Mandatory Classes								
N°	Course Title	N° of Hours	Lectures	Prosem.	Laborat.	ECTS credits	Form of completion		
1.	Lecture of specialization No. 1 selected from the list of specialization lectures	30	30			3	Exam		
2.	Lecture of specialization No. 2 selected from the list of specialization lectures	30	30			3	Exam		
3.	Monographic lecture No. 1 selected from the list of monographic lectures	15	15			1.5	Exam		
4.	Monographic lecture No. 2 selected from the list of monographic lectures	15	15			1.5	Exam		
5.	Laboratory of specialization I	120			120	10	Completion with a grade		
	Total (mandatory)	210				19			

Note: During the second degree chemistry studies student is obliged to obtained: (a) at least 6 ECTS and not more than 8 ECTS for subjects that are not related to the field of studies (general courses), including general university subjects from the areas of humanities and social sciences minimum 5 ECTS, and (b) during the first three semesters - 1 ECTS in the context of physical exercises course.

Each year a student is expected to accumulate 60 ECTS credits (however, minimum 30 ECTS credits per a semester). Therefore, for M.Sc. a student has to obtain 120 ECTS credits (2 years x 60 points).

Supervisor: <u>dr hab. Beata Krasnodębska-Ostręga</u>



UNIVERSITY OF WARSAW

Faculty of Ehemistry

1 Pasteura Str., 02-093 Warsaw, Poland

MASTER PROGRAM, Chemistry - 2016/2017 Third Semester (3M)

	Mandatory Classes									
N°	Course Title	N° of Hours	Lectures	Prosem.	Laborat.	ECTS credits	Form of completion			
1.	Master seminar I	30		30		2	Completion with a grade			
2.	Laboratory of specialization II (preparation of M. Sc. Project)	250			250	18	Completion with a grade			
	Total (mandatory)	280				20				

Note: During the second degree chemistry studies student is obliged to obtained: (a) at least 6 ECTS and not more than 8 ECTS for subjects that are not related to the field of studies (general courses), including general university subjects from the areas of humanities and social sciences minimum 5 ECTS, and (b) during the first three semesters - 1 ECTS in the context of physical exercises course.

Each year a student is expected to accumulate 60 ECTS credits (however, minimum 27 ECTS credits per a semester). Therefore, for M.Sc. a student has to obtain 120 ECTS credits (2 years x 60 points).

Supervisor: <u>dr hab. Beata Krasnodębska-Ostręga</u>



UNIVERSITY OF WARSAW

Faculty of Ehemistry

1 Pasteura Str., 02-093 Warsaw, Poland

MASTER PROGRAM, Chemistry - 2016/2017 Fourth Semester (4M)

	Mandatory Classes									
N°	Course Title	N° of Hours	Lectures	Prosem.	Laborat.	ECTS credits	Form of completion			
1.	Master seminar II	30		30		4	Completion with a grade			
2.	Laboratory of specialization II (preparation of M. Sc. thesis and graduation exam)	200			200	20	Completion with a grade			
	Total (mandatory)	230				24				

Note: During the second degree chemistry studies student is obliged to obtained: (a) at least 6 ECTS and not more than 8 ECTS for subjects that are not related to the field of studies (general courses), including general university subjects from the areas of humanities and social sciences minimum 5 ECTS, and (b) during the first three semesters - 1 ECTS in the context of physical exercises course.

Each year a student is expected to accumulate 60 ECTS credits (however, minimum 27 ECTS credits per a semester). Therefore, for M.Sc. a student has to obtain 120 ECTS credits (2 years x 60 points).

Supervisor: dr hab. Beata Krasnodebska-Ostrega