

**STUDIA II STOPNIA, MAGISTERSKIE (3 sem)****KIERUNEK: CHEMIA**Specjalność: **Medicinal Chemistry****Kursy wybieralne – Elective course II:**

Selected reactions in organic chemistry 2 w (2 ECTS)

Combinatorial chemistry 2w (2 ECTS)

Advanced polymers for chemical and medical applications 2w (2ECTS)

Chemistry of amino acids peptides and proteins 2w (2ECTS)

Heterocyclic chemistry in drug synthesis 2w (2ECTS)

Sem.	I	II	III
Godz.	25h/ 30 ECTS / 2E	24h / 30 ECTS / 3E	24h / 30 ECTS
26			
25	Elective course II 2w (2 ECTS)		
24		Managerial course 2w (3 ECTS)	Production control and quality management 1w (1 ECTS)
23	Physical organic chemistry 1w (2 ECTS)		Polymers in medicine 1w (2 ECTS)
22	Introductory statistics 1c (2 ECTS)	Retrieval of scientific and technical information 1l (1 ECTS)	Multistep organic synthesis 4l (3 ECTS)
21	<b>Crystallography and structure of solids</b>	Rational drug design 2w (3 ECTS)	
20	2w +1c		
19	(2+1) ECTS	Molecular modeling <b>E</b>	
18	<b>Spectroscopic methods in medicinal chemistry</b> 2w +2l <b>E</b>	1w +2l (2 +2) ECTS	Inorganic drugs 1w (1 ECTS)
17	(2 +2) ECTS		Managerial course 1w (2ECTS)
16		Instrumental drug analysis 1w +2l	Mathematical methods in design and analysis of experiment 1w (1 ECTS)
15		(2 +2) ECTS	Graduate laboratory II 14l (10 ECTS)
14	Analytical methods in drug design and technology		
13	1w +4l	Medicinal natural products <b>E</b>	
12	(2 +4) ECTS	1w +2l (2 +2) ECTS	
11			
10		Synthetic organic drugs <b>E</b>	
9	Theoretical chemistry <b>E</b>	1w +4l + 1s	
8	2w +1c+ 2l	(2 +4+1) ECTS	
7	(4 +2+ 2) ECTS		
6			
5			
4	Foreign language II	Graduate laboratory I	
3	3c (2 ECTS)	4l (4 ECTS)	
2			
1	Foreign language I 1c (1 ECTS)		Graduation seminar and thesis preparation 1s (10 ECTS)
Sem.	<b>I</b>	<b>II</b>	<b>III</b>

Dopuszczalny deficyt punktów ECTS po każdym semestrze: **15ECTS**