

**STUDIA II LEVEL, MAGISTERSKIE (3 sem)****DIRECTION: CHEMICAL TECHNOLOGY**Specialty: **Technology of fine chemicals** (Prof. K. A. Wilk)

Sem.	I	II	III
Godz.	24h / 30 ECTS / 3E	25h / 30 ECTS / 3E	23h / 30 ECTS / 1E
26			
25		Principles of business 2w (3 ECTS)	
24	Philosophy of science and technology 1w (2 ECTS)		
23	Mathematical methods in design and analysis of experiment 1w (1 ECTS)	Polymer additives 2w (2 ECTS)	E Green chemistry 2w (2 ECTS)
22	Environmental protection in chemical technology	Data mining in chemical technology 2l (3 ECTS)	Production control and quality management E 1w + 1p (2 + 1) ECTS
21	1w + 2l (2 + 2) ECTS		
20	Process modeling in chemical technology 1w + 2l (1 + 2) ECTS	Pharmaceuticals and biopharmaceuticals 2w + 2l (3 + 2) ECTS	E Process project 1w (1 ECTS)
19			Design and feasibility study of technological process 2p (3 ECTS)
18			Sustainable development 1w (1 ECTS)
17			
16	Chemical reaction engineering 1w + 1p (2 + 2) ECTS	Agrochemicals and plant health products 1w + 2l (1 + 2) ECTS	Graduate laboratory II 14l (10 ECTS)
15	Fundamentals of biotechnology E 2w (2 ECTS)		
14	Disperse systems – physicochemistry and technology E 2w + 2l (3 + 3) ECTS	Analytical methods in fine chemicals 2w + 2l (2 + 2) ECTS	
13			
12			
11			
10			
9			
8	Surface phenomena and applied catalysis E 2w + 2l (3 + 2) ECTS	Specialty polymers – physicochemistry and technology E 2w + 2l (3 + 3) ECTS	
7			
6			
5			
4	Foreign language II	Graduate laboratory I	
3	3c (2 ECTS)	4l (4 ECTS)	
2			
1	Foreign language I 1c (1 ECTS)		Graduate seminar- and thesis preparation 1s (10 ECTS)
Sem.	I	II	III

Allowable deficit of ECTS credits after each semester **15** credits