STUDIA II LEVEL, MAGISTERSKIE (3 sem)

DIRECTION: CHEMICAL TECHNOLOGY

Specialty: **Technology of fine chemicals**

Sem.	I	II	III
Godz.	24h / 30 ECTS / 3E	25h / 30 ECTS / 3E	23h / 30 ECTS
26			
25		Design and feasibility study of technological	
24	Experimental design and data analysis	process 2p (3 ECTS)	
23	2p (3 ECTS)	Polymer additives E	Sensors and biosensors in fine chemicals
22	Environmental protection in chemical	2w (2 ECTS)	manufacturing
21	technology	Data mining in chemical technology	2w +2l (2 +3 ECTS)
20	1w + 2l(2 + 2)ECTS	21 (3 ECTS)	
19	Process modeling in chemical technology	Pharmaceuticals and biopharmaceuticals E	Production control and quality management
18	1w + 2l(1 + 2)ECTS	2w + 2l (3 +2) ECTS	1w + 1p (1 + 2) ECTS
17			Process project 1w (1 ECTS)
	Chemical reaction engineering		Agrochemicals and plant health products
16	1w + 1p(2 + 2)ECTS		1w (1 ECTS)
15		Sustainable energy and fuels	
14	Fundamentals of biotechnology E	1w + 2p (1 + 2) ECTS	
13	2w (2 ECTS)		
12	Specialty surfactants and dispersed systems E	Analytical methods in fine chemicals	
11	2w + 2l (3 +3) ECTS	2w + 2l (2 + 2)ECTS	
10			
9			Graduate laboratory II
8	Surface phenomena and applied catalysis E	Specialty polymers – physicochemistry and	14l (10 ECTS)
7	2w + 21 (3 + 2) ECTS	technology E	
6		2w + 21(3 + 3) ECTS	
5			
4	Foreign language II	Graduate laboratory I	
3	3c (2 ECTS)	41 (4 ECTS)	
2			
_	Foreign language I		Graduate seminar- and thesis preparation
1	1c (1 ECTS)		1s (10 ECTS)
Sem.	I	II	III

Allowable deficit of ECTS credits after each semester 15 credits