STUDIA II LEVEL, MAGISTERSKIE (3 sem)

DIRECTION: CHEMICAL AND PROCESS ENGINEERING

Specialty: APPLIED CHEMICAL ENGINEERING

(Prof. A. Trusek)

Electives II:

Statistical thermodynamics in molecular modeling -2w (2 ECTS)

Materials used in chemical unit operation

2w (2 ECTS)

Microwaves and other advanced thermal technologies in chemical engineering - 2w (2 ECTS) New concepts and solutions in chemical engineering

2w (2 ECTS)

Sem.	I	II	III
Godz.	23h / 30 ECTS / 3E	26h / 30 ECTS / 1E	23h / 30 ECTS / 1E
26		Principles of business	
25		2w (3 ECTS)	
24		Multiphase systems in chemical processes	
23	Chemical nanoengineering E	2w (2 ECTS)	Electives II
22	2w + 1s (3 + 1) ECTS	Biotechnology process engineering	2w (2 ECTS)
21		1w + 2l (2 + 2) ECTS	Management of quality in chemical enterprise E
20	Modern methods of liquid separation		2w (3 ECTS)
19	1w + 1s (2 + 2) ECTS	Project of chemical processes	Economics of production processes
18	Software for simulation and design of chemical	21 (2 ECTS)	1w + 2l (1 + 2) ECTS
17	systems	Polymeric materials	
16	21 (2 ECTS) Projects in CAD	2w + 2l (2 +2 ECTS)	Philosophy of science and technology
10	21 (3 ECTS)		1w (2 ECTS)
15	[21(3 LC13)		Graduate laboratory II
14	Process equipment E		141 (10 ECTS)
13	2w + 2l (3 + 2) ECTS	CFD - computer modeling of processes	111 (10 2018)
12		1w + 2l (2 + 2) ECTS	
11			
10	Transport phenomena in chemical processes E	Computer simulations in designing materials	
9	2w (3 ECTS)	for chemical processes	
8	Renewable energy sources	1w + 2l (2 + 2) ECTS	
	1w + 1s (2 + 1) ECTS		
7		Industrial waste management E	
6	Mathematical and statistical methods in chemical	2w (2 ECTS)	
_	engineering		
5	1w + 2l (2 + 2) ECTS	Foreign language I	
4		1c (1 ECTS)	
3	Foreign language II	Graduate laboratory I 41 (4 ECTS)	
2	3c (2 ECTS)	TI (T LC 15)	
1	(2 LC 15)		Graduate seminar - and thesis preparation
1			1s (10 ECTS)
Sem.	I	II	III

Allowable deficit of ECTS credits after each semester 15 credits