

**STUDIA II STOPNIA, MAGISTERSKIE (3 sem)**

**KIERUNEK: INŻYNIERIA CHEMICZNA I PROCESOWA**

Specjalność: **Advanced Chemical Engineering  
and Nanotechnology**

**Kursy wybieralne - Electives:**

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.	25h / 30 ECTS / 2E	23h / 30 ECTS / 2E	24h / 30 ECTS
26			
25	Trends in chemical engineering development 1s (1ECTS)		
24	Nanoengineering – fundamentals and applications		Foreign language I 1c (1 ECTS)
23	4w (6ECTS)	Chemical processes project designed and management  3w (5ECTS) <b>E</b> 11 (2ECTS) 2s (2ECTS) 4p (4ECTS)	Electives II 2w (2ECTS)
22	2l (2ECTS)		Project Management 1w (2ECTS)
21	2s (2ECTS) 2p (2ECTS)		Business Management 2w (3ECTS)
20			Foreign language II 3c (2 ECTS) ECTS
19			Graduate laboratory II 14l (10 ECTS)
18			
17			
16			
15			
14	Chemical Processes Equipment and Methods		
13			
12	4w (6ECTS)		
11	4l (4ECTS)		
10	1s (1ECTS)		
9	4p (4ECTS)		
8			
7			
6			
5			
4		Graduate laboratory I 4l (4 ECTS)	
3			Graduate seminar - and thesis preparation 1s (10 ECTS)
2			
1	Statistical analysis of experimental data 1w (2 ECTS)		
Sem.	I	II	III

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