

STUDIA II STOPNIA, MAGISTERSKIE (3 sem)

KIERUNEK: CHEMIA I INŻYNIERIA MATERIAŁÓW

Specjalność: **Advanced Nano and Bio- materials-Monabiphot****Elective courses II:**

Biomaterials 2w (2ECTS)

Nonlinear Optics for Chemists 2w(2ECTS)

Sem.	I	II	III
Godz.	24h / 30ECTS / 3E	24h / 30ECTS / 3E	24h / 30ECTS
26			
25			
24	Fluorescence spectroscopy and bioimaging 2w + 1c (3 + 1 ECTS)	Laser and microscopic techniques in materials analysis 2w (2 ECTS)	Advanced functional materials 6l (6 ECTS)
23			
22		Nanoscale physics	
21	Modern spectroscopy 2w (3 ECTS)	2w + 1l (2+2 ECTS)	
20			
19	Biophotonics 1w + 2s (2 + 2 ECTS)	Nanomaterials 2w + 1s (3 +1 ECTS)	Nonlinear Optics for Chemists 1l (2 ECTS)
18			Elective courses II 2w (2 ECTS)
17			
16	Bioorganic chemistry 2w (3 ECTS)	Organic electronics 1w + 1s (2+1 ECTS)	Graduate laboratory II 14l (10 ECTS)
15			
14	Modern polymers 2w (2 ECTS)	Advanced diffraction methods 2w + 1c + 1l (3 + 1 + 2 ECTS)	
13			
12	Liquid crystals for photonics 2w + 1l (3 + 1 ECTS)		
11			
10		Advanced functional materials 2w + 2s (3 + 2 ECTS)	
9	Mathematical methods in planning and analysis of experiment 2l (2 ECTS)		
8			
7	Managerial course 2w (3ECTS)	Elective courses II 2w (2 ECTS)	
6			
5	Managerial course 1w (2ECTS)		
4	Foreign language II 3c (2 ECTS)	Graduate laboratory I 4l (4 ECTS)	Graduation seminar 1s and thesis preparation (10 ECTS)
3			
2			
1	Foreign language I 1c (1 ECTS)		
Sem.	I	II	III

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