

STUDIA II LEVEL, MAGISTERSKIE (4 sem)**DIRECTION: CHEMISTRY**Specialty: **Medicinal Chemistry** (Prof. R. Gancarz)**Electives II:**

Selected reactions in organic chemistry 2 w (2 ECTS)

Principles of physiological chemistry 2w (2ECTS)

Self-organization in chemistry 2w (2ECTS)

Combinatorial chemistry 2w (2 ECTS)

Sem.	complementary engineering	I	II	III
Godz.	26h / 30 ECTS / 2E	25h/ 30 ECTS / 3E	24h / 30 ECTS / 3E	23h / 30 ECTS
26	Electives I 2w(2 ECTS)	Electives II 2w (2 ECTS)	Principles of business 2w (3 ECTS)	Quality management systems 1w (1 ECTS)
25				
24	Chemical informatics 2l (2 ECTS)	Physical organic chemistry 1w (2 ECTS)	Retrieval scientific information 1l (1 ECTS)	Polymers in medicine 1w (2 ECTS)
23	Environment protection 2w (2 ECTS)	Introductory statistics 1c (1 ECTS)		Rational drug design 2w (3 ECTS)
22	Introduction to materials science and engineering 2w (2 ECTS)	Crystallography 2w +1c (3 +2) ECTS	Molecular modeling 1w +2l (2 +2) ECTS	Inorganic drugs 2w (2 ECTS)
21				
20	Technical safety 1w (3 ECTS)	Spectroscopy 2w +2l (2 +2) ECTS	Instrumental drug analysis 1w +2l (2 +2) ECTS	Philosophy of science and technology 1w (2ECTS)
19	Technical drawing 2l (2 ECTS)			Analytical methods in drug design and technology 1w +4l (2 +4) ECTS
18	Recycling of materials 2w (2 ECTS)	Theoretical chemistry 2w +1c+ 2l (4 +1+ 2) ECTS	Synthetic organic drugs 2w +4l (3 +4) ECTS	
17	Biotechnology with introduction to industrial microbiology 2w + 1p (2 + 1 ECTS)			Foreign language II 3c (2 ECTS)
16				
15	Fundamentals of chemical technology 2w +2p (2+2 ECTS)	Foreign language I 1c (1 ECTS)		
14	Measurements in chemical equipment 1w + 2l (2 + 2 ECTS)			
13	Introduction to chemical engineering 2w + 1c (2 + 2 ECTS)			
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Sem.	complementary engineering	I	II	III

Allowable deficit of ECTS credits after each semester 15 credits

Electives I: CHC020054w Fundamentals of physical chemistry 2w 2ECTS,**BTC020013w Molecular biology 2w 2ECTS****TCC020024w Basic unit processes in chemical technology 2w 2ECTS**