Plan of II level studies CHEMICAL TECHNOLOGY

II LEVEL STUDY, MASTER PROGRAMME

FIELD OF STUDY : CHEMICAL TECHNOLOGY

Technology of Fine Chemicals

Hours	24 h / 30 ECTS / 3E	24 h / 30 ECTS / 3E	24 h / 30 ECTS / 1E
24	Philosophy of science and technology 1w (2ECTS)	Principles of business 2w (3 ECTS)	Green chemistry 2w (2 ECTS)
23	Mathematical methods in design and analysis of experiment 1w (1 ECTS)		
22	Environmental protection in chemical technology 1w + 2l (2 + 2)ECTS	Polymer additives **E** 2w (2 ECTS)	Production control and quality management **E** 1w + 1p (2 + 1) ECTS
21			
20		Data mining in chemical technology 2l (3 ECTS)	Sustainable development 1w (1 ECTS)
19	Process modeling in chemical technology 1w + 2l (1 + 2)ECTS		Process project 1w (1 ECTS)
18		Pharmaceuticals and biopharmaceuticals **E** 2w + 2l (3 +2) ECTS	Design and feasibility study of technological process 2p (3 ECTS)
17			
16	Chemical reaction engineering 1w + 1p (2 + 2)ECTS		Sports 1h (1 ECTS)
15			Graduate laboratory II 14l (9 ECTS)
14	Fundamentals of biotechnology **E** 2w (2 ECTS)	Agrochemicals and plant health products 1w + 2l (1 + 2)ECTS	
13			
12	Disperse systems – physicochemistry and technology **E** 2w + 2l (3 +3) ECTS		
11		Analytical methods in fine chemicals 1w + 2l (2 + 2)ECTS	
10			
9			
8	Surface phenomena and applied catalysis **E** 2w + 2l (3 +2) ECTS	Specialty polymers – physicochemistry and technology **E** 2w + 2l (3 + 3) ECTS	
7			
6			
5			
4	Foreign language II 3c (2 ECTS)	Graduate laboratory I 4l (4 ECTS)	
3			
2			
1	Foreign language I 1c (1 ECTS)		Graduate seminar- and thesis preparation 1s (10 ECTS)
Sem.	**I**	**II**	**III**

Allowable deficit of ECTS credits after each semester **15** credits