

Chemistry / 2nd cycle studies (Master)

No.	Course	Semester	Hours	ECTS credits
1	Instrumental methods for materials analysis	winter	45	2
2	Spectroscopy	winter	80	5
3	Advanced organic chemistry*	winter	55	4
4	Advanced inorganic chemistry	winter	55	3
5	Bioanalysis	winter	30	2
6	Advanced analytical chemistry	winter	55	4
7	Bioanalysis and ecoanalysis	winter/summer	45	4
8	Separation and hyphenated techniques in chemical analysis	summer	30	2
9	Information technology and statistics in forensic research	summer	30	2
10	Electrochemistry	winter	55	4
11	Environmental photochemical processes	winter	30	2
12	Chromatographic analysis	winter	45	3
13	MSc laboratory	winter	130	11
14	MSc laboratory	summer	135	15
15	Polymer chemistry	summer	30	3
16	Statistical thermodynamics	summer	15	2
17	Physicochemical methods of analysis	summer	75	8
18	Chemistry of fullerenes and carbon nanomaterials	summer	15	2
19	Conducting polymers	summer	30	2
20	The use of biosensors in contemporary medical diagnosis	summer	15	2
21	Current methods used in chemical analysis	summer	90	9
22	NMR, IR and MS in chemical analysis**	summer	30	2
23	Practical aspects of nanotechnology	summer	30	2

* This course needs already passed courses of Organic chemistry I and Organic chemistry II

** This course needs already passed courses of Organic chemistry I, Organic chemistry II and Spectroscopic methods