

Chemistry / 1st cycle studies (Bachelor)

No.	Course	Semester	Hours	ECTS credits
1	Foreign language course	winter	30	2
2	Foreign language course	summer	30	2
3	Electrochemistry of materials	winter	15	1
4	Inorganic chemistry	winter	90	6
5	Theoretical chemistry	winter	30	3
6	Basics of crystallography	winter	30	3
7	Physical chemistry II	winter	105	7
8	Organic chemistry II	winter	150	9
9	Chemistry of materials	winter	45	3
10	Spectroscopic methods in chemical analysis	winter/summer	30	3
11	Physical chemistry I	summer	120	7
12	Organic chemistry I	summer	105	6
13	Instrumental methods in chemical analysis	summer	75	5
14	Chemical metrology	summer	30	2
15	Nanotechnology	summer	15	1
16	Statistical methods	summer	30	2
17	Microscopic methods in chemical analysis	summer	30	3
18	Identification methods in forensic sciences	summer	30	3

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	Bioanalysis	winter	30	2
5	Advanced inorganic chemistry	winter	55	4
6	Advanced analytical chemistry	winter	55	4
7	Electrochemistry	winter	55	4
8	Environmental photochemical processes	winter	30	2
9	Chromatographic analysis	winter	30	3
10	MSc seminar	winter	30	7
11	MSc laboratory	winter	130	11
12	MSc seminar	summer	30	11
13	MSc laboratory	summer	135	15
14	Statistical thermodynamics	summer	15	2
15	Physicochemical methods of analysis	summer	75	8
16	Chemistry of fullerenes and carbon nanomaterials	summer	15	2
17	Conducting polymers	summer	30	2
18	The use of biosensors in contemporary medical diagnosis	summer	15	2
19	Modern methods used in chemical analysis	summer	30	2
20	Nanomaterials in advanced materials	summer	30	2
21	NMR, IR and MS in chemical analysis**	summer	30	2
22	Chromatographic and electrophoretic methods in chemical analysis	summer	40	3
23	Ecological Chemistry	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