

Chemistry / 1st cycle studies (Bachelor)

No.	Course unit	Semester	Hrs	ECTS credits
1	General chemistry I	winter	105	8
2	Foreign language course	winter	30	2
3	General chemistry II	summer	105	8
4	Analytical chemistry I	summer	75	4
5	Statistical methods	summer	30	2
6	Foreign language course	summer	30	2
7	Analytical chemistry II	winter	105	7
8	Inorganic chemistry	winter	90	6
9	Theoretical chemistry	winter	30	3
10	Basics of crystallography	winter	30	3
11	Applied chemistry and chemicals management	winter	45	3
12	Publication and presentation of chemical results	winter	15	2
13	Physical chemistry I	summer	120	6
14	Organic chemistry I	summer	105	6
15	Instrumental methods in chemical analysis	summer	75	4
16	Chemical metrology	summer	30	2
17	Physical chemistry II	winter	105	7
18	Organic chemistry II	winter	150	9
19	Chemistry of materials	winter	45	3
20	Chemical technology	summer	60	5
21	Biochemistry	summer	45	4
22	Nanotechnology	summer	15	1 or 2*
23	Electrochemistry of materials	summer	15	1 or 2*
24	Microscopic methods in chemical analysis	summer	15	1 or 2*
25	Separation and preconcentration methods	summer	15	1 or 2*
26	Chemical methods in medical diagnostic	summer	15	1 or 2*

* Examination (E) ECTS=2 , credit without examination (Z) ECTS=1

Chemistry / 2nd cycle studies (Master)

No.	Course title	Semester	Hrs	ECTS credits
1	Theoretical chemistry	winter	45	3
2	Instrumental analysis	winter	75	6
3	Molecular modelling	winter	15	2
4	Instrumental laboratory	winter	90	6
5	Molecular spectroscopy	winter	60	5
6	Advanced inorganic chemistry	winter	60	5
7	Advanced organic chemistry	winter	135	8
8	Chemical electroanalysis	winter	90	8
9	Theoretical chemistry II	winter	60	5
10	Programming languages	winter	45	3
11	Statistical thermodynamics	summer	15	2
12	Crystallography	summer	30	2
13	Chemistry of polymers	summer	30	3
14	Advanced analytical chemistry	summer	90	5
15	Current problems in analytical and inorganic chemistry	summer	90	8
16	Current problems in organic chemistry	summer	90	8
17	Current problems in physical chemistry	summer	90	8
18	Electrochemistry	summer	105	5
19	Statistical thermodynamics II	summer	60	5
20	Current problems in theoretical chemistry	summer	120	8
21	Spectacular chemistry	summer	30	2
22	MSc seminar	winter	30	7
23	MSc laboratory	winter	135	12
24	The use of biosensors in contemporary medical diagnosis	winter	15	1 or 3*
25	Theoretical modelling of chemical processes	winter	15	1 or 3*
26	MSc seminar	summer	30	11
27	MSc laboratory	summer	120	14
28	Electrochemistry of nanoparticles	summer	15	1 or 3*
29	Chemistry of fullerenes	summer	15	1 or 3*

* Examination (E) ECTS=3 , credit without examination (Z) ECTS=1