

STUDY PROGRAMME CURRICULUM CHEMICAL TECHNOLOGY

Name of study programme	Chemical technology
Programme characteristics	
Type	higher professional
Cycle	bachelor
University of Ljubljana members	• Faculty of Chemistry and Chemical Technology, Večna pot 113, 1000 Ljubljana, Slovenija

Year 1

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0072019	Mathematics and Statistics	Jakob Cimprič	45		30			75	150	5	1st semester	no
2.	0072018	Physics I	Aleš Mohorič	60		15			75	150	5	1st semester	no
3.	0072027	General chemistry	Saša Petriček	45	15	15			75	150	5	1st semester	no
4.	0072022	Fundamentals of industrial chemistry	Boštjan Genorio	45	30				75	150	5	1st semester	no
5.	0072025	Practical course in general chemistry	Nives Kitanovski			75			75	150	5	1st semester	no
6.	0099249	Splošni izbirni predmet		75					75	150	5	1st semester	no
7.	0100781	Mathematics and Statistics	Karin Cvetko-Vah	45		30			75	150	5	2nd semester	no
8.	0072017	Inorganic Chemistry	Saša Petriček	60	15				75	150	5	2nd semester	no
9.	0072020	Organic Chemistry I	Franc Požgan	60	15				75	150	5	2nd semester	no

10.	0072021	Fundamentals of biochemistry with biotechnology	Polona Žnidaršič Plazl	50	10	15			75	150	5	2nd semester	no
11.	0072024	Practical course in inorganic chemistry	Franc Perdih		15	60			75	150	5	2nd semester	no
12.	0086932	Splošni izbirni predmet		75					75	150	5	2nd semester	yes
Total				560	100	240	0	0	900	1800	60		

Year 2

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0072029	Analytical Chemistry I	Mitja Kolar	45	15	15			75	150	5	1st semester	no
2.	0072035	Organic Chemistry II	Franc Požgan	45	30				75	150	5	1st semester	no
3.	0072036	Introduction to chemical engineering	Igor Plazl	45	30				75	150	5	1st semester	no
4.	0072041	Processes of industrial chemistry	Boštjan Genorio, Urška Šebenik	45	30				75	150	5	1st semester	no
5.	0072040	PRACTICAL COURSE IN ORGANIC CHEMISTRY	Janez Cerkovnik			75			75	150	5	1st semester	no
6.	0088090	Strokovni izbirni predmet		75					75	150	5	1st semester	yes
7.	0072030	Analytical Chemistry II	Mitja Kolar	30		45			75	150	5	2nd semester	no
8.	0072031	Physical chemistry I	Ksenija Kogej	40	10	25			75	150	5	2nd semester	no

9.	0072037	Unit operations in chemical engineering	Aleš Podgornik	45	30				75	150	5	2nd semester	no
10.	0072032	Environmental Chemistry	Helena Prosen	30	20	25			75	150	5	2nd semester	no
11.	0072033	Chemical and Process Safety	Barbara Novosel	45	15	15			75	150	5	2nd semester	no
12.	0086929	Strokovni izbirni predmet		75					75	150	5	2nd semester	yes
Total				520	180	200	0	0	900	1800	60		

Year 3

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0072045	Analytical Chemistry III	Nataša Gros	30	30	15			75	150	5	1st semester	no
2.	0072052	Basics in Material Science and Engineering	Marjan Marinšek	45	15	15			75	150	5	1st semester	no
3.	0072049	Mechanical operations	Marjan Marinšek	45	15	15			75	150	5	1st semester	no
4.	0072050	Measurements and fundamentals of process control	Andrej Jamnik	30	15	30			75	150	5	1st semester	no
5.	0072047	Physical Chemistry II	Ksenija Kogej	35	10	30			75	150	5	1st semester	no
6.	0072054	Practical course in chemical engineering fundamentals	Aleš Ručigaj			75			75	150	5	1st semester	no
7.	0072048	Industrial Processes and Sustainable Development	Andreja Žgajnar Gotvajn	45	10	20			75	150	5	2nd semester	no
8.	0086929	Strokovni izbirni predmet		75					75	150	5	2nd semester	yes

9.	0072053	Industrial practice	Igor Plazl						150		150	5	2nd semester	no
10.	0072046	Diploma work							225	225	450	15	2nd semester	no
Total				305	95	200	0		375	825	1800	60		

Year 1, Discipline related electives

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0088094									0	5		yes
2.	0099481	Physical education	Matej Jamnik	15		60			75	150	5		yes
Total				15	0	60	0	0	75	150	10		

Year 2, Year 3, Programme related electives

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0099482	Polymer Materials	Branko Alič	60		15			75	150	5		yes
2.	0100213	Methods of Synthesis in Inorganic Chemistry	Andrej Pevec		15	60			75	150	5		yes
3.	0099254	Organic Analysis and Spectroscopy	Janez Košmrlj	45		30			75	150	5		yes
4.	0100214	Processes and Equipment in Biotechnology	Andreja Žgajnar Gotvajn, Polona Žnidaršič Plazl	45	15	15			75	150	5		yes
5.	0100215	Principles of Polymer Engineering	Urška Šebenik	30	30	15			75	150	5		yes
6.	0099255	Synthetic techniques in organic chemistry	Janez Cerkovnik	15	15	45			75	150	5		yes

7.	0072057	Quality Assurance in Analytical Laboratory	Drago Kočar	45	15	15			75	150	5		yes
8.	0100223	Practical Course in Materials Characterisation	Boštjan Genorio			75			75	150	5		yes
9.	0072056	Coatings Technology	Branko Alič	45	15	15			75	150	5		yes
Total				285	105	285	0	0	675	1350	45		