

STUDY PROGRAMME CURRICULUM CHEMICAL ENGINEERING

2023/2024

Name of study programme	Chemical engineering
Programme characteristics	
Type	academic
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.	0072101	Mathematics	Jaka Smrekar, Petar Pavešič	45		30			75	150	5	1st semester	no
2.	0072099	Physics	Igor Muševič, Janez Bonča, Svjetlana Fajfer	45		30			75	150	5	1st semester	no
3.	0072107	General chemistry	Anton Meden, Iztok Turel	45	30				75	150	5	1st semester	no
4.	0072102	Molecular fundamentals of life sciences	Marko Novinec	45	15	15			75	150	5	1st semester	no
5.	0072103	Fundamentals of engineering	Matevž Dular	45	30				75	150	5	1st semester	no
6.	0071971	Introduction to programming	Miha Moškon	45		30			75	150	5	1st semester	no
7.	0100779	Mathematics	Jaka Smrekar, Petar Pavešič	45		30			75	150	5	2nd semester	no

8.	0100780	Physics	Igor Muševič, Janez Bonča, Svjetlana Fajfer	45		30			75	150	5	2nd semester	no
9.	0072105	Practical Course in Physics	Aleš Mohorič			75			75	150	5	2nd semester	no
10.	0072098	Inorganic Chemistry	Anton Meden	45	30				75	150	5	2nd semester	no
11.	0072106	Practical Course in General and Inorganic Chemistry	Andrej Pevec			75			75	150	5	2nd semester	no
12.	0072100	Chemical engineering I	Matjaž Krajnc	30	45				75	150	5	2nd semester	no
Total				435	150	315	0	0	900	1800	60		

Year 2

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study	Individual student work	Total hours	ECTS	Semesters	Elective
1.	0072114	Mathematics II	Pavle Saksida	45		30			75	150	5	1st semester	no
2.	0072117	Organic chemistry	Bogdan Štefane	60	15				75	150	5	1st semester	no
3.	0072111	Chemical Thermodynamics	Jurij Lah	60	15				75	150	5	1st semester	no
4.	0072109	Instrumental methods of analysis	Matevž Pompe	75					75	150	5	1st semester	no
5.	0072120	Practical Course in Instrumental Methods of Analysis	Matevž Pompe			75			75	150	5	1st semester	no
6.	0086930	Splošni izbirni predmet		75					75	150	5	1st semester	yes
7.	0072112	Chemical engineering II	Matjaž Krajnc	30	45				75	150	5	2nd semester	no

8.	0072116	Fluid Mechanics	Igor Plazl	40	35				75	150	5	2nd semester	no
9.	0072115	Materials for Engineers	Marjan Marinšek	45	15	15			75	150	5	2nd semester	no
10.	0072113	Quantum Mechanics	Barbara Hribar Lee	45	30				75	150	5	2nd semester	no
11.	0072110	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				595	170	135	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.	0072137	Heat and Mass Transfer	Matjaž Krajnc	60	15				75	150	5	1st semester	no
2.	0072130	Chemical Reactor Engineering	Aleš Ručigaj	60	15				75	150	5	1st semester	no
3.	0072128	Chemical Engineering Thermodynamics	Aleš Podgornik	60	15				75	150	5	1st semester	no
4.	0072129	Chemical Product Engineering	Urška Šebenik	30	45				75	150	5	1st semester	no
5.	0086930	Splošni izbirni predmet		75					75	150	5	1st semester	yes
6.	0088090	Strokovni izbirni predmet		75					75	150	5	1st semester	yes
7.	0072139	Separation Processes	Aleš Podgornik	60	15				75	150	5	2nd semester	no
8.	0072136	Chemical Course in Chemical Engineering	Andreja Žgajnar Gotvajn			150			150	300	10	2nd semester	no
9.	0072127	Diploma work						225	225	450	15	2nd semester	no

	Total	420	105	150	0	225	900	1800	60	
--	-------	-----	-----	-----	---	-----	-----	------	----	--

Year 2, Year 3, Discipline related electives

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study	Individual student work	Total hours	ECTS	Semesters	Elective
1.	0088094									0	5		yes
Total				0	0	0	0	0	0	0	5		

Year 2, Year 3, Programme related electives

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study	Individual student work	Total hours	ECTS	Semesters	Elective
1.	0100298	Principles of Polymer Engineering	Urška Šebenik	30	30	15			75	150	5		yes
2.	0072122	Modern Methods of Materials Characterisation	Boštjan Genorio	45	15	15			75	150	5		yes
3.	0100300	Practical Course in Materiačs Characterization	Marjan Marinšek			75			75	150	5		yes
4.	0100306	Mechanical and Hydrodynamic Operations	Igor Plazl	45	15	15			75	150	5		yes
5.	0072126	Biotechnology	Polona Žnidaršič Plazl	45	15	15			75	150	5		yes
6.	0072118	Introduction to Environmental Engineering	Gabriela Kalčíkova	45	15	15			75	150	5		yes
7.	0100311	Polymer Materials	Urška Šebenik	60		15			75	150	5		yes
8.	0072119	Industrial practice	Urška Šebenik					150		150	5		yes
Total				270	90	165	0	150	525	1200	40		