

STUDY PROGRAMME CURRICULUM

GEOTECHNOLOGY

2024/2025

Name of study programme	Geotechnology
Programme characteristics	
Type	master's
Cycle	master
University of Ljubljana members	Faculty of Natural Sciences and Engineering, Aškerčeva cesta 12, 1000 Ljubljana, Slovenija

Year 1

				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.	0067878	Data processing in geosciences	Damjan Hann, Goran Vižintin	45	0	45	0	0	90	180	6	1st semester	no
2.	0067881	Mineral Resource Processing	Jože Kortnik	45	0	45	0	0	90	180	6	1st semester	no
3.	0067882	Machines and Equipment in Geotechnology	Željko Vukelić	45	0	45	0	0	90	180	6	1st semester	no
4.	0067883	Extraction of Mineral Resources	Damjan Hann, Janez Rošer, Željko Vukelić	45	15	30	0	0	90	180	6	1st semester	no
5.	0069217	Special Blasting and Drilling Works	Jože Kortnik	30	15	30	0	15	90	180	6	1st semester	no
6.	0067876	Geothermal Energy	Željko Vukelić	45	0	45	0	0	90	180	6	2nd semester	no
7.	0067877	Tunnel Construction and Risk Assessment	Janez Rošer, Vojkan Jovičić,	45	15	45	0	15	120	240	8	2nd semester	no

			Željko Vukelić										
8.	0067879	Environmental Engineering	Jože Kortnik	60	15	30	0	15	120	240	8	2nd semester	no
9.	0067880	Practical Work	Jože Kortnik	0	0	0	0	60	60	120	4	2nd semester	no
10.	0086882	Optional Courses		30	0	30	0	0	60	120	4	2nd semester	yes
Total				390	60	345	0	105	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.	0067885	Engineering Geophysics	Goran Vižintin	30	0	30	0	0	60	120	4	1st semester	no
2.	0067887	Model Analysis	Goran Vižintin	30	0	30	0	0	60	120	4	1st semester	no
3.	0069221	Risk assessment in geotechnology	Goran Vižintin, Željko Vukelić	45	0	45	0	0	90	180	6	1st semester	no
4.	0067889	Planning, Organization and Management of Geotechnological Companies	Janez Rošer, Jurij Šporin, Željko Vukelić	30	0	30	0	0	60	120	4	1st semester	no
5.	0067890	Waste Treatment	Jože Kortnik	30	15	0	0	15	60	120	4	1st semester	no
6.	0086883	Optional courses		60	0	60	0	0	120	240	8	1st semester	yes
7.	0067886	Master Thesis		0	0	0	0	450	450	900	30	2nd semester	no
Total				225	15	195	0	465	900	1800	60		

Izbirni strokovni predmeti

				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.	0069207	Clean Technologies	Jože Kortnik	30	15	15	0	0	60	120	4		yes

2.	0069208	Selected Chapters from Engineering Geophysics	Goran Vižintin	30	0	30	0	0	60	120	4		yes
3.	0075676	Reinforced Concrete Constructions	Vojkan Jovičić	30	15	15	0	0	60	120	4		yes
4.	0075680	Security and Management of Underground Structures	Janez Rošer, Vojkan Jovičić, Željko Vukelić	30	0	30	0	0	60	120	4		yes
5.	0075682	Landfill Areas	Jože Kortnik	30	0	30	0	0	60	120	4		yes
6.	0075685	Energy Politics	Željko Vukelić	30	15	15	0	0	60	120	4		yes
7.	0075693	Deformational Monitoring Networks	Goran Vižintin	30	0	15	0	15	60	120	4		yes
8.	0075695	Geostatistics	Goran Vižintin	30	0	30	0	0	60	120	4		yes
9.	0075713	Geothermal Research and Underground Fluid Modelling	Goran Vižintin	30	0	30	0	0	60	120	4		yes
10.	0075716	Least-Squares Method	Goran Vižintin	30	0	30	0	0	60	120	4		yes
11.	0075720	Geomodelling and GIS	Goran Vižintin	30	0	30	0	0	60	120	4		yes
12.	0075721	Geophysical Methods of Potential Fields	Goran Vižintin	30	0	30	0	0	60	120	4		yes
13.	0075724	Mineral Resources and Law	Senko Pličanič	30	0	30	0	0	60	120	4		yes
Total				390	45	330	0	15	780	1560	52		