

STUDY PROGRAMME CURRICULUM GEOLOGY

2025/2026

Name of study programme	Geology
Programme characteristics	
Type	academic
Cycle	bachelor
University of Ljubljana members	• Faculty of Natural Sciences and Engineering, Aškerčeva cesta 12, 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.	0067457	Physics 1	Marko Žnidarič	45	0	30	0	0	75	150	5	1st semester	no
2.	0067459	GIS in Geology	prof. dr. Timotej Verbovšek	30	0	15	0	0	45	90	3	1st semester	no
3.	0067460	Chemistry 1	Urška Lavrenčič Štangar	60	0	15	0	0	75	150	5	1st semester	no
4.	0561891	Crystallography	doc. dr. Simona Jarc	15	0	30	0	0	45	90	3	1st semester	no
5.	0067462	Mathematics 1	izr. prof. dr. Janko Bračič	60	0	30	0	0	90	180	6	1st semester	no
6.	0603049	Introduction to Geology	prof. dr. Marko Vrabc	60	0	45	0	15	120	240	8	1st semester	no
7.	0067458	Soil Mechanics	izr. prof. dr. Vojkan Jovičič	30	0	15	0	0	45	90	3	2nd semester	no
8.	0067463	Mineralogy	izr. prof. dr. Mirijam Vrabc	30	0	60	0	0	90	180	6	2nd semester	no

9.	0067466	Paleontology	doc. dr. Luka Gale	45	0	45	0	15	105	210	7	2nd semester	no
10.	0590564	Pedology	Helena Grčman	25	5	15	0	0	45	90	3	2nd semester	no
11.	0561898	Instrumental Methods of Analysis	izr. prof. dr. Mirijam Vrabec, prof. dr. Matej Dolenc	30	0	15	0	0	45	90	3	2nd semester	no
12.	0067468	Statistics in Geology	Nina Zupančič	30	0	45	0	0	75	150	5	2nd semester	no
13.	0067469	Introduction Into Scientific and Research Work	izr. prof. dr. Barbara Čenčur Curk	15	30	0	0	0	45	90	3	2nd semester	no
Total				475	35	360	0	30	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.	0561901	Geochemistry	Nina Zupančič	40	35	0	0	0	75	150	5	1st semester	no
2.	0067473	Mineral Deposits	prof. dr. Matej Dolenc	45	0	30	0	15	90	180	6	1st semester	no
3.	0561904	Igneous Petrology	prof. dr. Matej Dolenc	45	10	20	0	15	90	180	6	1st semester	no
4.	0562053	Metamorphic Petrology	izr. prof. dr. Mirijam Vrabec	35	20	20	0	15	90	180	6	1st semester	no
5.	0067476	Sedimentary Petrology	prof. dr. Andrej Šmuc	45	0	30	0	30	105	210	7	1st semester	no
6.	0067471	Quaternary Geology	prof. dr. Andrej Šmuc, Tomislav Popit	30	0	0	0	15	45	90	3	2nd semester	no

7.	0067472	Geomorphology	prof. dr. Andrej Šmuc, Tomislav Popit	15	0	15	0	15	45	90	3	2nd semester	no
8.	0067477	Stratigraphy	prof. dr. Boštjan Rožič	50	15	20	0	35	120	240	8	2nd semester	no
9.	0562054	Stratigraphic tools	prof. dr. Boštjan Rožič	38	0	0	0	7	45	90	3	2nd semester	no
10.	0067478	Structural Geology	prof. dr. Marko Vrabc	45	0	30	0	30	105	210	7	2nd semester	no
11.	0561910	Optional course (1 or 2)		45	15	15	0	15	90	180	6	2nd semester	yes
Total				433	95	180	0	192	900	1800	60		

Year 2, izbirni predmeti

	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.	0089594	Physical Chemistry	Jurij Lah	45	0	0	0	0	45	90	3		yes
2.	0089595	Geodesy	doc. dr. Goran Vižintin	30	0	15	0	0	45	90	3		yes
3.	0089596	Engineering Geology for Geotechnical Constructions	izr. prof. dr. Barbara Čenčur Curk	15	30	0	0	0	45	90	3		yes
4.	0089547	Mathematics 2	izr. prof. dr. Janko Bračič	60	0	30	0	0	90	180	6	2nd semester	yes
5.	0089597	Marine Geochemistry 1	izr. prof. dr. Nastja Rogan Šmuc, prof.	30	0	0	0	15	45	90	3		yes

			dr. Matej Dolenc										
6.	0089550	Ore Microscopy Basics	prof. dr. Matej Dolenc	15	0	30	0	0	45	90	3		yes
7.	0089598	Principles of Seismology	prof. dr. Andrej Gosar	30	15	0	0	0	45	90	3	2nd semester	yes
8.	0562057	Paleontology of Vertebrata	doc. dr. Luka Gale	45	0	0	0	0	45	90	3	2nd semester	yes
9.	0089552	Volcanology	izr. prof. dr. Mirijam Vrabc, prof. dr. Matej Dolenc	25	5	10	0	50	90	180	6		yes
10.	0089601	History of Geology	Mihael Brenčič	30	15	0	0	0	45	90	3		yes
Total				325	65	85	0	65	540	1080	36		

Year 3

				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.	0067481	Geology of Slovenia	doc. dr. Luka Gale, prof. dr. Andrej Šmuc	30	0	0	0	45	75	150	5	1st semester	no
2.	0067483	Hydrogeology	Mihael Brenčič	45	0	30	0	15	90	180	6	1st semester	no
3.	0067484	Engineering Geology	prof. dr. Timotej Verbovšek	60	0	30	0	30	120	240	8	1st semester	no
4.	0067485	Environmental Geology	izr. prof. dr. Nastja Rogan Šmuc, Nina Zupančič	60	0	0	0	15	75	150	5	1st semester	no
5.	0067486	Regional Geology	prof. dr. Boštjan Rožič	45	0	0	0	0	45	90	3	1st semester	no
6.	0111828	Optional course 1		20	20	0	0	5	45	90	3	1st semester	no

7.	0067479	Geophysics	prof. dr. Andrej Gosar	30	0	30	0	0	60	120	4	2nd semester	no
8.	0067480	Karst Geology	Mihael Brenčič	30	0	15	0	15	60	120	4	2nd semester	no
9.	0160954	Field Mapping	prof. dr. Marko Vrabc	0	0	105	0	0	105	210	7	2nd semester	no
10.	0160953	Introduction to Geological Mapping	prof. dr. Marko Vrabc	30	0	15	0	0	45	90	3	2nd semester	no
11.	0111829	Optional course 1, 2, 3 or 4		90	30	30	0	30	180	360	12	2nd semester	no
Total				440	50	255	0	155	900	1800	60		

Year 3, izbirni predmeti

	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.	0562056	Biogeochemistry	izr. prof. dr. Nastja Rogan Šmuc	30	15	0	0	0	45	90	3	2nd semester	yes
2.	0067432	Diploma Thesis		0	0	0	0	45	45	90	3	2nd semester	yes
3.	0089594	Physical Chemistry	Jurij Lah	45	0	0	0	0	45	90	3		yes
4.	0089595	Geodesy	doc. dr. Goran Vižintin	30	0	15	0	0	45	90	3		yes
5.	0089606	Ore Deposit Geology	prof. dr. Matej Dolenec	30	45	0	0	15	90	180	6		yes
6.	0089607	Geomedicine	izr. prof. dr. Nastja Rogan Šmuc, Nina Zupančič	30	15	0	0	0	45	90	3		yes
7.	0089596	Engineering Geology for Geotechnical Constructions	izr. prof. dr. Barbara Čenčur Curk	15	30	0	0	0	45	90	3		yes

8.	0562055	Microscopy of Carbonates	prof. dr. Boštjan Rožič	15	0	30	0	0	45	90	3	2nd semester	yes
9.	0089597	Marine Geochemistry 1	izr. prof. dr. Nastja Rogan Šmuc, prof. dr. Matej Dolenc	30	0	0	0	15	45	90	3		yes
10.	0160956	Nanomaterials	izr. prof. dr. Mirijam Vrabc, Sašo Šturm	25	20	0	0	0	45	90	3	2nd semester	yes
11.	0089550	Ore Microscopy Basics	prof. dr. Matej Dolenc	15	0	30	0	0	45	90	3		yes
12.	0089598	Principles of Seismology	prof. dr. Andrej Gosar	30	15	0	0	0	45	90	3	2nd semester	yes
13.	0562057	Paleontology of Vertebrata	doc. dr. Luka Gale	45	0	0	0	0	45	90	3	2nd semester	yes
14.	0089614	Practice Work	doc. dr. Luka Gale	0	0	0	0	90	90	180	6		yes
15.	0643457	Project Work	izr. prof. dr. Barbara Čenčur Curk	6	27			12	45	90	3		yes
16.	0089558	Land Use and Environmental Impact Assessment	izr. prof. dr. Barbara Čenčur Curk	15	15	0	0	15	45	90	3		yes
17.	0089559	Research Paper		0	0	0	0	45	45	90	3	2nd semester	yes
18.	0644201	Research Practical Work		0	20	0	0	25	45	90	3	2nd semester	yes
19.	0089615	Practical Structural Geology	prof. dr. Marko Vrabc	15	30	0	0	0	45	90	3		yes
20.	0089552	Volcanology	izr. prof. dr. Mirijam Vrabc, prof. dr. Matej Dolenc	25	5	10	0	50	90	180	6		yes

21.	0089601	History of Geology	Mihael Brenčič	30	15	0	0	0	45	90	3		yes
		Total		431	252	85	0	312	1080	2160	72		