

Full-time studies timetable
Master's degree studies – Geology: Applied Geoscience

Subject	ECTS	Form of assessment E: exam T: test P/R: project/report OP: oral presentation	Hours together	Lectures	Classes / Laboratory classes*	Field trips	Seminar
I Semester (Mandatory classes)							
Methods in mineralogy, petrology and geochemistry	4	T, P/R	100	14	24	6	-
Groundwater resource assessment	3	E, R	75	20	10	-	-
Methods of environmental samples collecting	3	T, R	75	10	20	-	-
Methods in structural geology	3	E, R	98	14	24	-	-
English for geologists	1	T	26	14	-	-	-
I Semester (Elective classes)							
Current problems in mineralogical sciences	2	OP, abstract, discussion	50	-	-	-	20
Current problems in petrological sciences	2	OP	50	-	-	-	20
New trends in stratigraphy	2	OP	50	-	-	-	20
Informatics and geostatistics in geological sciences	4	T, P/R	100	14	24	-	-
Applied geophysics	5	E, R	122	24	24	-	-
Trace fossils	3	T, OP, R	75	14	14	-	-
II Semester (Mandatory classes)							
Applications of mineral sciences	4	E, R	100	14	24	-	-
Methods and application in stratigraphy	4	T, R	105	24	14	-	-
Groundwater quality	3	T, P	75	14	16	-	-
Prospecting and evaluation of mineral reserves	4	E, R	100	24	24	-	-
MSc seminar I	2	OP	50	-	-	-	20
II Semester (Elective classes)							
Natural stone in architecture	3	T, P	75	14	14	6	-
New trends in tectonics and structural geology	2	OP	50	-	-	-	20
New trends in economic geology	2	OP	50	-	-	-	20
Groundwater exploitation	4	T, P	100	14	24	-	-

Environmentally sound technologies and renewable energy sources	3	E, R	75	14	14	-	-
Applications of mineral sciences (field course)	3	R	75	-	-	-	36
Regional and economic geology (field course)	3	R	75	-	-	-	36
Hydrogeological mapping (field course)	3	R	75	-	-	-	36
III Semester (Mandatory classes)							
Environmental pollution	5	E, R	125	24	12	12	-
Isotope geology and geochemistry	4	T, R	100	28	14	-	-
Microtectonics and microstructural analysis	4	E, R	109	24	20	-	-
Groundwater Modelling	4	T, R	88	16	28	-	-
III Semester (Elective classes)							
Geochemical Evolution of the Earth	4	T, R	100	14	24	-	-
Limnology	2	T	50	14	-	-	-
Methods in recultivation and remediation	2	T	50	14	-	-	-
Stable isotopes forensics and food authenticity	2	T	50	14	-	-	-
Environmental geohazards	3	T	75	24	-	-	-
Mineral resources, economics and the environment	3	T	75	24	-	-	-
Environmental geochemistry in practice	5	E, T, R	125	14	14*	14	-
Petroleum Geology	4	T, OP	78	20	18*		
IV Semester (Mandatory classes)							
Legal Aspects in geology and Environmental Management	5	E, R	125	24	24	-	-
MSc seminar II	2	OP	50	-	-	-	20
IV Semester (Elective classes)							
Volcanology	3	T	75	24	-	-	-
Applications of Ground Penetrating Radar (GPR)	3	P/R	76	8	8	8	-
Biogeochemistry and geomicrobiology	3	T, R	75	10	14*	-	-