

Curriculum

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Applied Geology Module (AG)

Course	Hours					ECTS
	L	S	P	O	Σ	
1st semester	210	45	150	45	450	30
Applied Geology	75	0	60	15	150	10
Analysis of Sedimentary Environments	60	30	30	30	150	10
Geoenvironment and Geomaterials	75	15	60	0	150	10
2nd semester	205	0	230	15	450	30
Applied Engineering Geology	30	0	30	15	75	5
Quantitative Hydrogeology	45	0	30	0	75	5
Computer Methods in Geology	30	0	45	0	75	5
Module elective	35	0	40	0	75	5
Module elective	35	0	40	0	75	5
Geology elective	30	0	45	0	75	5
TOTAL	415	45	380	60	900	60

Optional courses	Hours					ECTS
	L	S	P	O	Σ	
Geohazard and Protection From Natural Disasters	30	30	15	0	75	5
Hydrogeochemistry	45	0	30	0	75	5
Geomodeling	45	0	30	0	75	5
Protection and Management of Groundwater Resources	30	15	30	0	75	5
Individual Field Work Project	0	0	0	75	75	5
Global Geophysics	45	15	15	0	75	5
Engineering Geology for Geotechnical Structures	30	0	45	0	75	5
Contaminant Hydrogeology	30	15	30	0	75	5

Geoenvironment and Geomaterials Module (GGM)

Course	Hours					ECTS
	L	S	P	O	Σ	
1st semester	210	45	150	45	450	30
Applied Geology	75	0	60	15	150	10
Analysis of Sedimentary Environments	60	30	30	30	150	10
Geoenvironment and Geomaterials	75	15	60	0	150	10
2nd semester	195	0	240	15	450	35
Module elective	35	0	40	0	75	5
Module elective	35	0	40	0	75	5
Geology elective	30	0	45	0	75	5
Technical Mineralogy	30	0	45	0	75	5
Natural Resources Management	30	0	30	15	75	5
Module elective	35	0	40	0	75	5
Module elective	0	0	0	0	0	5
TOTAL	405	45	390	60	900	65

Optional courses	Hours					ECTS
	L	S	P	O	Σ	
Hydrogeochemistry	45	0	30	0	75	5
Ore Microscopy	30	0	45	0	75	5
Clay Mineralogy	45	0	30	0	75	5
Petrogenesis of Igneous and Metamorphic Rocks	30	0	45	0	75	5
Computer Methods in Geology	30	0	45	0	75	5
X-ray Diffraction Crystallography	45	0	30	0	75	5
Advanced Mineralogy	45	0	30	0	75	5
Application of Geology in Archaeology	45	0	30	0	75	5

Regional Geology and Palaeontology Module (RGP)

Course	Hours					ECTS
	L	S	P	O	Σ	
1st semester	210	45	150	45	450	30
Applied Geology	75	0	60	15	150	10
Analysis of Sedimentary Environments	60	30	30	30	150	10
Geoenvironment and Geomaterials	75	15	60	0	150	10
2nd semester	175	75	170	30	450	30
Module elective	35	0	40	0	75	5
Module elective	35	0	40	0	75	5
Geology elective	30	0	45	0	75	5
Tectonics	45	0	15	15	75	5
Micropalaeontology	30	0	30	15	75	5
Historical Geology and Global Tectonics	0	75	0	0	75	5
TOTAL	385	120	320	75	900	60

Optional courses	Hours					ECTS
	L	S	P	O	Σ	
Geomodeling	45	0	30	0	75	5
Individual Field Work Project	0	0	0	75	75	5
Application of Geology in Archaeology	45	0	30	0	75	5
Active Tectonics	45	0	15	15	75	5
Anthropogene and Recent Sedimentary Environments	30	15	0	30	75	5
Quantitative Structural Geology	30	15	30	0	75	5
Paleontology of Vertebrata	45	0	30	0	75	5
Sedimentology of Carbonates and Clastic Sedimentary Rocks	45	0	30	0	75	5
Stratigraphic Tools	45	15	15	0	75	5
History of Life	45	30	0	0	75	5

Abbreviations used for the syllabus:

L – lectures

S – seminar

P – practice

O – other forms of educational activities (mainly project work)

ECTS – European Credits Transfer System (1 credit point equals a 30-hour student workload)

Grey – Grey written courses are not carried out in this academic year