

# 1st year

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## Applied Geology Module (AG)

Course	Hours					ECTS
	L	S	P	O	Σ	
<b>2nd semester</b>	<b>135</b>	<b>0</b>	<b>150</b>	<b>15</b>	<b>300</b>	<b>20</b>
<a href="#">Applied Engineering Geology</a>	30	0	30	15	75	5
<a href="#">Quantitative Hydrogeology</a>	45	0	30	0	75	5
<a href="#">Computer Methods in Geology</a>	30	0	45	0	75	5
<a href="#">Geology elective</a>	30	0	45	0	75	5
<b>TOTAL</b>	<b>135</b>	<b>0</b>	<b>150</b>	<b>15</b>	<b>300</b>	<b>20</b>

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

## Geoenvironment and Geomaterials Module (GGM)

Course	Hours					ECTS
	L	S	P	O	Σ	
<b>2nd semester</b>	<b>125</b>	<b>0</b>	<b>160</b>	<b>15</b>	<b>300</b>	<b>25</b>
<a href="#">Geology elective</a>	30	0	45	0	75	5
<a href="#">Technical Mineralogy</a>	30	0	45	0	75	5
<a href="#">Natural Resources Management</a>	30	0	30	15	75	5
<a href="#">Module elective</a>	35	0	40	0	75	5
<a href="#">Module elective</a>	0	0	0	0	0	5
<b>TOTAL</b>	<b>125</b>	<b>0</b>	<b>160</b>	<b>15</b>	<b>300</b>	<b>25</b>

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

## Regional Geology and Palaeontology Module (RGP)

Course	Hours					ECTS
	L	S	P	O	Σ	
<b>2nd semester</b>	<b>105</b>	<b>75</b>	<b>90</b>	<b>30</b>	<b>300</b>	<b>20</b>
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
<b>TOTAL</b>	<b>105</b>	<b>75</b>	<b>90</b>	<b>30</b>	<b>300</b>	<b>20</b>

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