



DETAILED PROPOSAL OF THE STUDY PROGRAMME

Table 3 List of required and elective courses and modules with class hours and ECTS credits

LIST OF COURSES/MODULES									
Year of study: 1									
Semester: 1									
MODULE	COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective
	Introduction to Geology	Davor Pavelić	1 to 1	30		30	2.	5	Required
	Introduction to Mineralogy	Ivan Sondi	1 to 1	45		15	1.	5	Required
	Mathematics 1	Rajna Rajić	1 to 1	45		45	2.	5	Required
	Paleontology	Karmen Fio Firi	1 to 1	30		30	1.	5	Required
	Chemistry	Gordana Bilić	1 to 1	30		30	2.	5	Required
	Basic Projection Methods	Nikolina Kovačević	1 to 1	30		30	2.	5	Required
	Physical Education 1	Josipa Antekolović	1 to 1	0		30	0	0	Required

LIST OF COURSES/MODULES									
Year of study: 1									
Semester: 2									
MODULE	COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective
	Systematic Mineralogy	Ivan Sondi	2 to 2	45		30	1.	6	Required
	Optical Mineralogy	Sibila Borojević Šošćarić	2 to 2	15		60	2.	6	Required
	Geochemistry	Vesnica Garašić	2 to 2	45		15		5	Required
	Physics	Željko Andreić	2 to 2	30		30		5	Required
	Mathematics 2	Rajna Rajić	2 to 2	45		45	2.	4	Required
	Geology Field Course 1	Davor Pavelić	2 to 2	0		40	1.	4	Required
	Physical Education 2	Josipa Antekolović	2 to 2	0		30	1.	0	Required



DETAILED PROPOSAL OF THE STUDY PROGRAMME

LIST OF COURSES/MODULES

Year of study: 2

Semester: 3

MODULE	COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective
	Sedimentary Petrology	Dunja Aljinović	3 to 3	45		45	2.	6	Required
	Petrology of Igneous and Metamorphic Rocks	Vesnica Garašić	3 to 3	45		45	1.	6	Required
	Fluid Mechanics	Krešimir Pavlić	3 to 3	15		30	2.	4	Required
	Technical Mechanics	Tanja Mališ	3 to 3	30		15		5	Required
	Physical Education 3	Josipa Antekolović	3 to 3	0		30	1.	0	Required
	Elective course 1		3 to 3					3	Elective
	Elective course 2		3 to 3					3	Elective

MODULE	ELECTIVE COURSE 1, 2	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective
	Geometric Modelling and CAD	Nikolina Kovačević	3 to 3	15		30	2.	3	Elective
	Computer Programming	Zrinka Vidović-Tisanić	3 to 3	15		30		3	Elective
	Basic of Electrical Engineering	Dalibor Kuhinek	3 to 3	30		15	2.	3	Elective
	Introduction to Petroleum Engineering	Katarina Simon	3 to 3	30	7	8	2.	3	Elective
	Mining Basics	Zlatko Briševac	3 to 3	30		15	2.	3	Elective
	Soil Mechanics Practicum	Biljana Kovačević-Zelić	3 to 3	15		30	2.	3	Elective
	Practicum in Rock Mechanics	Petar Hrženjak/Zlatko Briševac	3 to 3	15		30	2.	3	Elective



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LIST OF COURSES/MODULES									
Year of study: 2									
Semester: 4									
MODULE	COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective
	Fundamentals of Geophysical Exploration	Franjo Šumanovac	4 to 4	45		30	2.	6	Required
	Historical Geology	Davor Pavelić	4 to 4	60		30	2.	6	Required
	Structural Geology	Bruno Tomljenović	4 to 4	30		15	2.	5	Required
	Geology Field Course 2	Davor Pavelić	4 to 4	0		120	1.	6	Required
	Physical Education 4	Josipa Antekolović	4 to 4	0		30	1.	0	Required
	Hydrogeological elective course		4 do 4.					5	Elective
	Raw materials elective course		4 do 4.					5	Elective

MODULE	HYDROGEOLOGICAL ELECTIVE COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective
	Groundwater Exploitation	Zoran Kovač/Jelena Parlov	4 do 4.	30		30	2.	5	Elective
	Introduction to hydrogeological investigations	Zoran Kovač/Jelena Parlov	4 do 4.	30		30	2.	5	Elective

MODULE	RAW MATERIALS ELECTIVE COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective
	Mineral Deposits	Sibila Borojević Šoštarić	4 do 4.	30		15	2.	5	Elective
	Mineral Deposits and industrial application	Sibila Borojević Šoštarić/Duje Smirčić	4 do 4.	30		15	2.	5	Elective



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LIST OF COURSES/MODULES									
Year of study: 3									
Semester: 5									
MODULE	COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/elective
	Properties and Usage of Stone	Ana Maričić	5 to 5	30		15	2.	4	Required
	Statistics	Anja Vrbaški	5 to 5	30		30	2.	5	Required
	Geological Mapping 1	Igor Vlahović	5 to 5	30		45	2.	6	Required
	Geodesy	Ivan Medved	5 to 5	30		30	2.	4	Required
	Engineering Geological elective course		5 do 5.					5	Elective
	Geoenergy elective course		5 do 5.					5	Elective

MODULE	ENGINEERING GEOLOGICAL ELECTIVE COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/elective
	Principles of Engineering Geology	Martin Krkač	5 do 5.	30		30	2.	5	Elective
	Application of Engineering Geology	Martin Krkač	5 do 5.	30		30	2.	5	Elective

MODULE	GEOENERGY ELECTIVE COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/elective
	Geology of fossil fuels	Bruno Saftić/Iva Kolenković Močilac	5 do 5.	30		45	2.	5	Elective
	Introduction to geoenergy	Bruno Saftić/Iva Kolenković Močilac/Marko Cvetković	5 do 5.	30		45	2.	5	Elective



DETAILED PROPOSAL OF THE STUDY PROGRAMME

LIST OF COURSES/MODULES										
Year of study: 3										
Semester: 6										
MODULE	COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective	
	Geology of Croatia	Davor Pavelić/Igor Vlahović/Bruno Tomljenović	6 to 6	30		0	2.	4	Required	
	Basics of Geoinformatics	Dario Perković	6 to 6	30		30	1.	4	Required	
	Professional English Language	Dubravka Pleše	6 to 6	30		15		4	Required	
	Elective course 3		6 to 6					3	Elective	
	Environmental Geology elective courses		6 to 6					4		
	Geology Field Course 3	Igor Vlahović	6 to 6			104		6	Required	
	Bachelor Thesis		6 to 6					6	Required	

MODULE	ELECTIVE COURSE 3	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective
	Applied Chemistry	Frankica Kapor	6 to 6	15		30	2.	3	Elective
	Hydrogeological Practicum	Kristijan Posavec	6 to 6	15		30	2.	3	Elective
	Engineering Geological Practicum	Snježana Mihalić Arbanas	6 to 6	15		30	2.	3	Elective

MODULE	ENVIRONMENTAL GEOLOGY ELECTIVE COURSE	COURSE TEACHER	From n to x semester	L	S	E	e-learning	ECTS	Required/ elective
	Environmental Geology	Mileusnić\Nakić	6 do 6.	30		30	2.	4	Elective
	Environmental Pollution	Mileusnić\Nakić	6 do 6.	30		30	2.	4	Elective