



SOFIA UNIVERSITY "ST. KLIMENT OHRIDSKI"
Faculty of Geology and Geography
 Department of Mineralogy, Petrology and Economic Geology
 Department of Geology, Paleontology and Fossil Fuels

Professional Field:	Earth Sciences, Geology
Educational and Qualification Degree:	Master of Science
MSc Programme:	Applied Economic Geology
Form of Study: Regular Length of Study: Three semesters	
Professional Qualification:	Master of Applied Economic Geology

GGB27

COURSE CURRICULUM

Academic year beginning from 2020/ 2021

№	Course code	Course Title	Term	ECTS credits		
					Lectures	Practical classes / practice
1	2	3	4	5	6	7

Compulsory courses I semester

1	C	1	0	1	Economic Geology and Mineral Exploration	1	5	30	30
2	C	1	0	2	Exploration Geochemistry	1	4	30	30
3	C	1	0	3	GIS and Remote Sensing	1	5	15	45

Elective Courses I semester

1	E	2	0	1	Structural Geology of Mineral Deposits	1	5	15	45
2	E	2	0	2	Applied Petrology	1	5	30	30
3	E	2	0	3	Tectonics of Sedimentary Basins	1	5	30	30
4	E	2	0	4	XRD Analysis	1	5	15	45

Compulsory courses II semester

4	C	1	0	4	Exploration Geophysics	2	4	30	30
5	C	1	0	5	Geological Mapping in Exploration	2	4	15	45

Elective Courses II semester

4	E	2	0	5	Applied Sedimentology	2	5	30	30
5	E	2	0	6	Wall Rock Alteration	2	5	30	30
6	E	2	0	7	Stream Sediment Analysis	2	5	15	30
7	E	2	0	8	Applied Geostatistics	2	5	15	30

Compulsory courses III semester

6	C	1	0	6	Core Logging and Sampling	3	3	15	30
7	C	1	0	7	Mineral Resource and Reserves Estimation and Modelling	3	4	15	45

Elective Courses III semester

8	E	2	0	9	Environmental Mineralogy	3	4	30	15
9	E	2	0	10	Methods for Analysis of Geological Materials	3	4	30	30
10	E	2	0	11	Metallogeny	3	4	30	15

Field training and trips

№	code				Title	Semester	ECTS - credits	Number classes
1	C	3	0	1	Mineral Exploration Methods	1	6	84
2	C	3	0	2	Geological Mapping in Mineral Exploration	2	6	84
3	C	3	0	3	Individual Field Work	2	6	84
4	C	3	0	4	Field Trip in Economic Geology (in Bulgaria and Abroad)	3	4	60

Degree completion

Form of degree completion		ECTS credits	First state exam/thesis defence session	Second state exam/thesis defence session
MSc thesis				

Programme leaders: Prof. Dr Kamen Bogdanov
 Assoc. Prof. Dr Dian Vangelov