



**University of Mining and Geology
"St. Ivan Rilski"**

THE FACULTY OF GEO-EXPLORATION

Curriculum

VOCATIONAL FIELD

4.4. EARTH SCIENCES

COURSE OF STUDIES

ECOLOGY AND ENVIRONMENTAL PROTECTION

MASTER'S DEGREE

VOCATIONAL QUALIFICATION

MASTER ECOLOGIST

FORM OF STUDY

PART-TIME

DURATION OF STUDY

A YEAR AND A HALF (THREE SEMESTERS)

Adopted at a session of the Academic Council of the University of Mining and Geology "St. Ivan Rilski"

HEAD OF DEPARTMENT OF *ENGINEERING*
GEOECOLOGY :

(Assoc. Prof. An. Angelov, Ph.D.)

DEAN:

(Assoc. Prof. B. Valchev, Ph.D.)

Sofia, 2021

CURRICULUM
EDUCATIONAL QUALIFICATION DEGREE "MASTER"
SPECIALTY "ECOLOGY AND ENVIRONMENTAL PROTECTION"
PROFESSIONAL FIELD 4.4 "EARTH SCIENCES"

FORM OF TRAINING: distance learning

DURATION OF STUDY: 1.5 YEARS

Duration of the semester: 15 weeks

Year	Semester	№	Discipline code	Full name of the course (course projects, internships)	Form of control	Weekly hours		Hours by type of exercise			Classroom employment	Credits	
						L	E	SE	LE	PE			
First	First	1	172127	Environmental chemistry	E	15	23	8	15		38	5	
		2	172128	Systems for regulation of purification processes	E	15	15	7	8		30	5	
		3	172129	Reactor technology in geoecology	E	22	23	15	8		45	5	
		4	132149	Ecological mineralogy	E	15	15	7	8		30	5	
		5	172135	Atmosphere and environment	E	15	15	7	8		30	5	
		6	142216 172231	Elective course from:		E	15	15	7	8		30	5
		Geophysical methods in ecology											
		Radioecology											
	Total for the first semester					6	97	106	51	55	0	203	30
	Second	Second	7	172132	Purification of contaminated soils	E	15	23	23			38	6
			8	172130	Industrial wastewater treatment	E	15	23	15	8		38	6
			9	172136	Management of damaged terrains and landscapes from mining activities	E	15	15	7	8		30	4
10			172133	Selective systems for hazardous waste processing	E	15	15	7	8		30	4	
11			122144	Geoecological modeling in GIS	CS	7	23	23			30	4	
12			172258 112240	Elective course from:		E	15	23	8	15		38	6
	Biosensors and bioindicators												
		Geology, prospecting and exploration of oil and gas fields											
Total for the second semester					5+1	82	122	83	39	0	204	30	
Total for the first year					11+1	179	228	134	94	0	407	60	
Second	Third			Undergraduate internship and defense of Diploma Thesis	15 days x 6 hours						45	15	
Total for the second year											45	15	
TOTAL FOR THE ENTIRE TRAINING COURSE					11+1	179	228	134	94	0	452	75	

Signs: E -exam, CS- current assessment, L - lectures, LE - laboratory exercises, SE- seminar exercises, PE - practical exercises

Parameters of the learning process:

Total hours for the training course: 452

Classroom employment: 452

Lectures: 179

Exercises: 228

- seminar 134

- laboratory 94

Extracurricular activities (study practices):

Number of exams for the training course: 11

Number of current ratings: 1