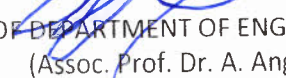


**UNIVERSITY OF MINING AND GEOLOGY  
"ST. IVAN RILSKI"  
FACULTY OF GEOLOGY AND EXPLORATION**

**CURRICULUM**

VOCATIONAL FIELD	4.4. EARTH SCIENCES
COURSE OF STUDY	ECOLOGICAL RISK ASSESSMENT AND SUSTAINABLE DEVELOPMENT
EDUCATIONAL AND QUALIFICATION DEGREE	MASTER
VOCATIONAL QUALIFICATION	ECOLOGIST
FORM OF STUDY	FULL TIME
DURATION OF STUDY	ONE AND A HALF YEARS

Adopted at a session of the Academic Council of the University of Mining and Geology "St. Ivan Rilski"  
Minutes №11/10.07.2017

  
HEAD OF DEPARTMENT OF ENGINEERING GEOECOLOGY:  
(Assoc. Prof. Dr. A. Angelov)

DEAN:

  
(Assoc. Prof. Dr. E. Zaneva-Dobranova)



Sofia, 2017

Years	Semester	No.	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Teaching hours per week		Overall teaching hours per semester	Credits	
						L	S			
FIRST	FIRST	1.	172127	<i>Required:</i> Environmental chemistry	E	3	3	90	5,0	
		2.	172164	Ecological Procedures and Permits	E	3	3	90	4,5	
		3.	172170	Environmental Risk Assessment	E	3	3	90	5,5	
		4.	172168	Ecotoxicology	E	3	3	90	5,0	
		5.	172135	Atmosphere and Environment	E	3	3	90	5,0	
		6.	362217 172231	<i>Elective course (one of the two):</i> Modelling of geoecological processes Radioecology	E E	3 3	3 3	90 90	5,0 5,0	
	<b>Overall for the first semester:</b>						18	18	540	30
	SECOND	SECOND	7.	272149	<i>Required:</i> Sustainable development	E	3	3	90	5,0
			8.	172169	Waste Management	E	3	3	90	5,5
			9.	172167	Soil Quality Management	E	3	3	90	5,5
			10.	172166	Water Quality Management	E	3	3	90	5,0
			11.	172158	Biosensors and bioindicators	E	3	3	90	5,0
12.			172136	Management of lands and landscapes damaged by mining activities	E	3	3	90	4,0	
<b>Overall for the second semester:</b>						18	18	540	30	
SECOND	THIRD			<b>Pre-diploma practice and Diploma Thesis defence</b>				30	15	
<b>OVERALL TEACHING HOURS AND CREDITS ACCORDING TO ECTS FOR THE FULL COURSE OF STUDY</b>						36	36	1110	75	

**Admission of Master's degree students from other universities:** 7 required course units within two semesters: General and Geological Microbiology (teaching hours – 84; credits 7.3), Fundamentals of Ecology (teaching hours – 91, credit 8.5), Fundamentals of Environmental Protection (teaching hours – 78, credit 5.5), Water Protection and Treatment (teaching hours – 84, credit 7.0), Soil Science (teaching hours – 70, credit 6.0), Technologies for Treatment of Solid Waste (teaching hours -84, credits 7.5), Environment Impact Assessment (teaching hours -84, credits 6.0).

**Part-time course of study:** The same course units with 50% of the teaching hours, the duration of study can be extended with one semester.

The Master's degree students from other universities have to enroll in the paid form of study.