



UNIVERSITY OF MINING AND GEOLOGY
"ST. IVAN RILSKI"

FACULTY OF GEOLOGY AND EXPLORATION

CURRICULUM

VOCATIONAL FIELD

4.4. EARTH SCIENCES

COURSE OF STUDY

MANAGEMENT AND WASTE TREATMENT

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 №/ 2016

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

DEAN:

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



Sofia, 2016

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	
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FIRST	first	1.	172127	<i>Required:</i> Environmental chemistry	E	3	3	90	5,0	
		2.	172170	Environmental Risk Assessment	E	3	3	90	5,5	
		3.	172168	Ecotoxicology	E	3	3	90	5,0	
		4.	172164	Ecological Procedures and Permits	E	3	3	90	4,5	
		5.	172171	Waste Treatment and Recycling	E	3	3	90	5,5	
			Overall for the first semester:				15	15	450	25,5
	second	6.	172172	<i>Required:</i> Management and Treatment of Industrial and Especially Hazardous Wastes	E	3	3	90	5,0	
		7.	172167	Soil Quality Management	E	3	3	90	5,5	
		8.	172166	Water Quality Management	E	3	3	90	5,0	
		9.	172158	Biosensors and bioindicators	E	3	3	90	5,0	
		10.	172136	Management of lands and landscapes damaged by mining activities	E	3	3	90	4,0	
11.		362217 27249	<i>Elective course (one of the two):</i> Modelling of geoecological processes Sustainable development	E E	3 3	3 3	90 90	5,0 5,0		
		Overall for the second semester:				18	18	540	29,5	
SECOND	third			Pre-diploma practice and Diploma Thesis defence				30	15	
				OVERALL TEACHING HOURS AND CREDITS ACCORDING TO ECTS FOR THE FULL COURSE OF STUDY		33	33	1020	70	

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), 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), Land Reclamation (teaching hours – 78, credits 6.8), 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.