



UNIVERSITY OF MINING AND GEOLOGY
"ST. IVAN RILSKI"

FACULTY OF GEOLOGY AND EXPLORATION

CURRICULUM

VOCATIONAL FIELD

4.4. EARTH SCIENCES

COURSE OF STUDY

WATER QUALITY MANAGEMENT

EDUCATIONAL AND QUALIFICATION DEGREE

MASTER

VOCATIONAL QUALIFICATION

ECOLOGIS

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.	172134	Systems for regulation of the treatment processes	E	3	3	90	5,0	
		3.	172129	Reactor equipment in the geocology	E	3	3	90	5,0	
		4.	172164	Ecological procedures and permits	E	3	3	90	4,5	
		5.	172268	<i>Elective course (one of the two):</i> Ecotoxycology	E	3	3	90	5,0	
			2322	Hydrology and climatology	E	3	3	90	5,0	
				Overall for the first semester:		15	15	450	24.5	
	SECOND	SECOND	6.	2921	<i>Required:</i> Chemical and physical and chemical methods for water treatment	E	3	3	90	5,0
			7.	172165	Biological methods for water treatment	E	3	3	90	5,0
			8.	172130	Treatment of industrial waste waters	E	3	3	90	5,0
			9.	1511	Protection of ground waters	E	3	3	90	5,5
			10.	172258	Biosensors and bioindicators	E	3	3	90	5,0
11.			172269	Waste management	E	3	3	90	5,5	
12.			172136	Management of lands and landscapes damaged by mining activities	E	3	3	90	4,0	
			Overall for the second semester:		21	21	630	35		
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		36	36	1110	74.5	

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), Hydrochemistry (teaching hours – 56, credits 5.5), Processes and Equipment in Geocology (teaching hours – 78, credits 6.0), Hydrogeology and Engineering Geology (teaching hours – 70, credits 6.2), Water Protection and Treatment (teaching hours – 84, credit 7.0), 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.