



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

THE FACULTY OF GEO-EXPLORATION

Curriculum

VOCATIONAL FIELD

4.4. EARTH SCIENCES

COURSE OF STUDIES

WATER QUALITY MANAGEMENT

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 "WATER QUALITY MANAGEMENT"
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	172164	Environmental procedures and permit regimes	E	15	15	15			30	5	
		5	152111	Protection of groundwater	E	15	15	15			30	5	
		6		Elective course from:	E	15	15	7	8		30	5	
		172168	Ecotoxicology										
		172231	Radioecology										
	Total for the first semester					6	97	106	67	39	0	203	30
	Second	7	292114	Chemical and physico-chemical methods for water purification	E	15	15	15			30	4	
		8	172130	Industrial wastewater treatment	E	15	23	15	8		38	6	
		9	172165	Biological methods for water purification	E	15	15	8	15		38	5	
		10	282111	Modern methods for structural and quantitative analysis	E	15	15	7	8		30	5	
		11	172158	Biosensors and bioindicators	E	15	23	8	15		38	5	
		12		Elective course from:	E	15	15	7	8		30	5	
			172269	Waste Management									
		172236	Management of damaged terrains and landscapes from mining activities										
	Total for the second semester					6	90	106	60	54	0	204	30
Total for the first year					12	187	212	127	93	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					12	187	212	127	93	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: 232
Exercises: 220
- seminar 127
- laboratory 93

Extracurricular activities (study practices):
Number of exams for the training course: 12