

University of Mining and Geology "St. Ivan Rilski"

THE FACULTY OF GEO-EXPLORATION

Curriculum

VOCATIONAL FIELD 4.4. EARTH SCIENCES

COURSE OF STUDIES WASTE MANAGEMENT AND TREATMENT

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 "WASTE MANAGEMENT AND TREATMENT" PROFESSIONAL FIELD 4.4 "EARTH SCIENCES"

FORM OF TRAINING: distance learning **DURATION OF STUDY: 1.5 YEARS** Duration of the semester: 15 weeks

Duration of the semester: 15 weeks												
Year	Semester	Ne	Discipline code	Full name of the course (course projects, internships)	Form of control	Weekly hours		Hours by type of exercise			Classroom employment	Credits
			Discip		Form	L	Е	SE	LE	PE	Clas empl	Ö
First	First	1	172127	Environmental chemistry	Е	15	23	8	15		38	5
		2	172170	Environmental risk assessment	Е	15	15	7	8		30	5
		3	172168	Ecotoxicology	Е	23	23	15	8		38	6
		4	172164	Environmental procedures and permit regimes	Е	15	15	15			30	5
		5	172171	Processing and recycling of household waste	Е	15	15	7	8		30	5
		6		Elective course from:	Е							
			142216	Geophysical methods in ecology		15	15	8	15		30	4
			132249	Ecological mineralogy								
		Total for the first semester			6	98	106	60	54	0	196	30
	Second	7	172172	Management and processing of industrial and especially hazardous waste	Е	15	23	23			38	5
		8	172167	Soil quality management	Е	15	23	15	8		38	6
		9	172166	Water quality management	Е	15	23	15	8		38	5
		10	272154	Sustainable Development	Е	15	15	15			30	5
		11	172136	Management of damaged terrains and landscapes from mining activities	Е	15	15	7	8		30	4
		12		Elective course from:	Е							
			122244	Geoecological modeling in GIS	CS	15	23	23			38	5
			172258	Biosensors and bioindicators	Е			8	15			
				Total for the second semester	5+1	90	122	83	39	0	212	30
				Total for the first year	11+1	188	228	143	93	0	408	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					188	228	143	93	0	453	75

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

Parameters of the learning process:

453 Total hours for the training course: Classroom employment: 453

Lectures: 188 228 Exercieses: 143 - seminar 93

- laboratory

Extracurricular activities (study practices): Number of exams for the training course: 11

Number of current ratings: