

University of Mining and Geology "St. Ivan Rilski"

THE FACULTY OF GEO-EXPLORATION

Curriculum

VOCATIONAL FIELD 4.4. EARTH SCIENCES

COURSE OF STUDIES ECOTECHNOLOGIES AND ENVIRONMENTAL PROTECTION

MASTER'S DEGREE

VOCATIONAL QUALIFICATION MASTER ECOLOGIST

FORM OF STUDY **FULL-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 AND QUALIFICATION DEGREE "MASTER"

COURSE OF STUDY: ECOTECHNOLOGY AND ENVIRONMENTAL PROTECTION

VOCATIONAL FIELD: 4.4 EARTH SCIENCES

FORM OF TRAINING: FULL-TIME DURATION OF STUDY: 1.5 YEARS Duration of the semester: 15 weeks

Duration of the semester. To weeks												
Year	Semester	윙	Course unit code	Full name of the course units (course projects, practical training)	Form of control	Teaching hours (weekly)		Overall teaching hours by type of seminar			Overall academic	Credits acc. to ECTS
\vdash				Envisor and the branches		L	S	S	Lab	Р		
First	First	1	172127	Environmental chemistry	Е	3	3	45			90	6
		2	292114	Impact of mining and mineral processing on natural water bodies	E	3	3	15	30		90	6
		3	122148	Environmental Geology	Е	2	2	30			60	6
		4	142148	Environmental Geophysics	Е	3	3	15	30		90	6
				Elective (one of the two):	Е	2	2	15	15		60	6
		5		Management of environmental impacts								
			272253	Economic assessment of environmental impacts								
		Total for the first semester		6	13	13	120	75		390	30	
		6	172169	Waste Management	Е	2	3	45			75	7
	Second	7	172148	Biotechnological systems for environmental protection	Е	2	3	30	15		75	7
		8	112161	Environmental Geochemistry	Е	2	2	15	15		60	5
		9	122144	Geoecological modeling in GIS	Е	1	3	45			60	5
				Elective (one of the two):	Е	2	3	15	30		75	6
		10	172258	Biosensors and bioindicators								
			172268	Ecotoxicology								
				Total for the second semester	5+1	9	14	150	60	0	345	30
Total for the first year					9+1	22	27	270	135	0	735	60
Second	Third			Development and defence of the diploma paper	15 days x 6 hours						90	15
	Total for the second year										90	15
TOTAL FOR THE ENTIRE TRAINING COURSE				9+1	22	27	270	135	0	825	75	

Abbreviations: E - examination; CA -continuous assessment; L - lectures; Lab - laboratory seminars; S -seminars; P - practical seminars

Parameters of the learning process:

Total hours for the training course: 825

Classroom employment: 825

Lectures: 420

Exercieses: 405

- seminar 270

- laboratory 135

- practical -

Number of exams for the training course: 11

Number of current ratings: 1