



FACULTY OF MINING TECHNOLOGY

CURRICULUM

VOCATIONAL FIELD:	5.7 ARCHITECTURE, CONSTRUCTION AND GEODESY
COURSE OF STUDY:	Underground Construction
EDUCATIONAL AND QUALIFICATION DEGREE:	Master
VOCATIONAL QUALIFICATION:	Engineer in Underground Construction
FORM OF STUDY:	FULL - TIME
DURATION OF STUDY:	1,5 YEARS (THREE SEMESTERS)

Adopted at a session of the Academic Council of the University of
Mining and Geology "St. Ivan Rilski" :
Minutes № 15 / 02.04.2015

HEAD OF DEPARTMENT OF UNDERGROUND CONSTRUCTION: _____
(Prof. Dr. L. Totev)

DEAN: _____
(Prof.Dr. Ivan NISHKOV)

CURRICULUM

Educational-qualification degree "Master of Science"
Course of Study: "Underground Construction"
Professional field: 5.7 "Architecture, construction and geodesy"

Form of education: FULL - TIME

Period of education 1,5 YEARS

Duration of the educational semester: first and second - 15 weeks, third - 13 weeks

Year	Semester	№	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Teaching hours (weekly)		Overall teaching hours per semester	Credits	
						L	S			
First	First	1	232132	Finite Element Method in Construction Work	Exam	3	3	90	7	
		2	232111	Soils and rocks for constructions	Exam	2	3	75	6	
		3	232112	Course project: Soils and rocks for constructions	CA		1	15	2	
		4	232135	Geotechnics	Exam	3	1	60	5	
		5	232133	Dynamics and Resistance of Underground Facilities	Exam	3	2	75	6	
		6	232136	Engineering Software	Exam	1	2	45	4	
	First semester:					5+1	12	12	360	30
	Second	7	232137	Technology for Constructing Underground Facilities	Exam	3	1	60	5	
		8	232138	Constructions for Underground Facilities	Exam	4	3	105	8	
		9	232139	Special Methods for Underground Construction	Exam	3	1	60	5	
		10	232140	Blasting Production Processes	Exam	3	3	90	7	
11		232134	Hydro-Insulating Materials for Underground Facilities	Exam	2	2	60	5		
Second semester:					5+1	15	10	375	30	
Overall for the first year:					10+1	27	22	735	60	
Second	Third - 13 weeks	12	232150	Underground Urban Construction	Exam	4	4	104	8	
		13	232151	Course Project: Underground Urban Construction	CA		1	13	2	
		14	232141	Waste Disposal Sites and Soil Remediation	Exam	3	3	78	6	
		15	232142	Conservation, Closing Down, and Recultivation of Mines and Underground Facilities	Exam	3	3	78	6	
		16	232152	Pre-Diploma Practice	CA			60	2	
		Third semester:					3+2	10	11	333
					Preparation and evaluation of graduation thesis					15
Overall for the second year:					3+2	10	11	333	39	
OVERALL FOR THE FULL COURSE OF STUDY					13+3	37	33	1068	99	

Abbreviations:

CA - Continuous Assessment, L - Lectures, Lab - Laboratory Seminars, S - Seminars, P - Practical Seminars

Parameters of the educational course :

Total workload for the education course : 1068 teach. hrs.

Academic load : 1008 teach. hrs.

Lectures : 535 teach. hrs.

Exercises : 473 teach. hrs.

Extracurricular employment (educational practices) : 60 teach. hrs.

Number of exams for the educational course : 13

Number of the ongoing evaluations : 3