



FACULTY OF MINING TECHNOLOGY

CURRICULUM

VOCATIONAL FIELD:	5.7 ARCHITECTURE, CONSTRUCTION AND GEODESY
COURSE OF STUDY:	Geotechnics
EDUCATIONAL AND QUALIFICATION DEGREE:	Master
VOCATIONAL QUALIFICATION:	Engineer in Geotechnics
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: "Geotechnics"

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	232158	Fundamentals of Geotechnics	Exam	2	1	45	4	
		2	232160	Construction Soils and Rocks	Exam	3	3	90	7	
		3	152135	Groundwater	Exam	2	1	45	4	
		4	232162	Mechanics of Construction Soils and Rocks	Exam	3	2	75	6	
		5	152136	Geodynamic phenomena	Exam	3	3	90	7	
		6	152137	Course Project: Geodynamic phenomena	CA		1	15	2	
	First semester:					5+1	13	11	360	30
	Second	7	232164	Measurement and Control in Geotechnics	Exam	2	2	60	5	
		8	232165	Foundation	Exam	3	2	75	6	
		9	232166	Course Project: Foundation	CA		1	15	2	
		10	232163	Mining Geotechnics	Exam	3	2	75	6	
		11	232148	Geomaterials	Exam	2	2	60	5	
12		232167	Technology, Mechanization and Organization in Geotechnics	Exam	3	2	75	6		
Second semester:					5+1	13	11	360	30	
Overall for the first year:					10+2	26	22	720	60	
Second	Third - 13 weeks	13	232168	Underground Construction in Populated Areas	Exam	3	2	65	5	
		14	232159	Geotechnical Facilities	Exam	4	2	78	6	
		15	142143	Seismic processes	Exam	3	3	78	6	
		16	232161	Ecology and Recultivation	Exam	2	1	39	4	
		17	222161	Investment Process and Assessment Methods for Investment	Exam	2	1	39	4	
		18	232152	Pre-Diploma Practice	CA			60	2	
	Third semester:					5+1	14	9	359	27
				Preparation and evaluation of graduation thesis					15	
Overall for the second year:					3+2	14	9	359	42	
OVERALL FOR THE FULL COURSE OF STUDY					15+3	40	31	1079	102	

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 : 1079 teach. hrs.

Academic load : 1019 teach. hrs.

Lectures : 572 teach. hrs.

Exercises : 447 teach. hrs.

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

Number of exams for the educational course : 15

Number of the ongoing evaluations : 3