



FACULTY OF MINING ELECTROMECHANICS

CURRICULUM

<u>VOCATIONAL FIELD:</u>	5.8. EXPLORATION, MINING, AND PROCESSING OF MINERALS
<u>COURSE OF STUDY:</u>	MACHINES, APPARATA, AND FACILITIES FOR INDUSTRIAL AND MUNICIPAL/DOMESTIC GASIFICATION
<u>EDUCATIONAL AND QUALIFICATION DEGREE:</u>	MASTER
<u>VOCATIONAL QUALIFICATION:</u>	ENGINEER IN GAS EQUIPMENT AND TECHNOLOGIES
<u>FORM OF STUDY:</u>	FULL-TIME
<u>DURATION OF STUDY:</u>	1 YEAR

Adopted at a session of the Academic Council at the University of Mining and Geology "St. Ivan Rilski",

Minutes № / 2021

HEAD OF DEPARTMENT OF
TECHNICAL MECHANICS AND MACHINE SCIENCES:

(Assoc. Prof. Dr. Ev. Kraychev)

DEAN:

(Assoc. Prof. Dr. K. Dzhustrov)

CURRICULUM

EDUCATIONAL AND QUALIFICATION DEGREE: MASTER

COURSE OF STUDY: Machines, Apparata, and Facilities for Industrial and Municipal/Domestic Gasification

VOCATIONAL FIELD: 5.8 EXPLORATION, MINING, AND PROCESSING OF MINERALS

FORM OF STUDY: FULL-TIME

DURATION OF STUDY: 1 YEAR

Duration of each semester: 15 weeks

Year	Semester	№	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 load per semester	Credits acc. to ECTS	
						L	S	S	Lab	P			
First	First	1	352120	Machines, Apparata, and Facilities for Industrial and Domestic Gasification	И	3	3	25	20		90	6	
		2	352121	Gas Measurement and Gas Regulation Equipment	И	3	2	30			75	5	
		3	112106	Petroleum Geology	И	3	2	15	15		75	5	
		4	352124	Elements of Installations and Apparata	И	2	2	30			60	4	
		5	322109	Electrical Equipment in Explosion-Risk Production	И	2	3		45		75	5	
		6	352119	Heat- and Mass-Exchange Processes and Apparatus	И	3	3	25	20		90	6	
	Общо за първи семестър					6+0	16	15	125	100		465	31
	Second	Second	7	312143	Hydro- and Pneumatic Components for Control and Automation	И	2	2	30			60	5
			8	162135	Design of Systems for Transport of Oil and Gas Along Main Pipelines	И	3	3	30	15		90	7
			9	322111	Renewable Sources of Energy	И	2	3	45			75	6
			10	312164	Computer Modelling of Mechanical Systems	И	2	3		45		75	5
			11	362151	Computer Methods in Engineering	И	2	3		45		75	5
Общо за втори семестър					5+0	11	14	105	105		375	28	
		12	352123	Pre-diploma production practical training	ТО						20	1	
Development and defence of the diploma paper												15	
OVERALL FOR THE FULL COURSE OF STUDY					11+1	27	29	230	205		860	75	

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

Parameters of the Curriculum:

Overall teaching hours for the full course of study:	860
Academic load:	840
lectures:	405
seminars:	435
- seminars	230
- laboratory seminars	205
Extracurricular load (practical training):	20
Number of exams:	11
Items of continuous assessment:	1