



FACULTY OF MINING ELECTROMECHANICS

CURRICULUM

<u>VOCATIONAL FIELD:</u>	5.8. EXPLORATION, MINING, AND PROCESSING OF MINERALS
<u>COURSE OF STUDY:</u>	GAS, COMBUSTION, AND PURIFYING EQUIPMENT AND TECHNOLOGIES
<u>EDUCATIONAL AND QUALIFICATION DEGREE:</u>	MASTER
<u>VOCATIONAL QUALIFICATION:</u>	ENGINEER IN GAS, COMBUSTION, AND PURIFYING 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: GAS, COMBUSTION, AND PURIFYING EQUIPMENT AND TECHNOLOGIES

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	352119	Heat- and Mass-Exchange Processes and Apparatus	E	3	3	25	20		90	6	
		2	352121	Gas Measurement and Gas Regulation Equipment	E	3	2	30			75	5	
		3	362132	Computer Networks and Communications	E	2	2		30		60	4	
		4	332104	Automation of Production	E	2	2	15	15		60	4	
		5	322109	Electrical Equipment in Explosion-Risk Production	E	2	3		45		75	5	
		6	362148	Control Systems for Administrative and Economic Activities	E	2	3		45		75	5	
	Overall for the first semester					6+0	14	15	70	155		435	29
	Second	7	352126	Hydro- and Pneumodynamics	E	3	3	30	15		90	7	
		8	162135	Design of Systems for Transport of Oil and Gas Along Main Pipelines	E	3	3	30	15		90	7	
		9	352128	Management and Control of Gas, Combustion, and Purifying Equipment	E	3	2	30			75	5	
		10	312164	Computer Modelling of Mechanical Systems	E	2	3		45		75	5	
		11	322111	Renewable Sources of Energy	E	2	3	45			75	6	
Overall for the second semester					5+0	13	14	135	75		405	30	
		12	352123	Pre-diploma production practical training	CA						20	1	
				Development and defence of the diploma paper								15	
OVERALL FOR THE FULL COURSE OF STUDY					11+1	27	29	205	230		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	205
- laboratory seminars	230
Extracurricular load (practical training):	20
Number of exams:	11
Items of continuous assessment:	1