



FACULTY OF MINING ELECTROMECHANICS

CURRICULUM

<u>VOCATIONAL FIELD:</u>	5.2. ELECTRICAL ENGINEERING, ELECTRONICS, AND AUTOMATION
<u>COURSE OF STUDY:</u>	AUTOMATION, INFORMATION, AND CONTROL ENGINEERING
<u>EDUCATIONAL AND QUALIFICATION DEGREE:</u>	MASTER
<u>VOCATIONAL QUALIFICATION:</u>	ENGINEER IN AUTOMATION
<u>FORM OF STUDY:</u>	PART-TIME
<u>DURATION OF STUDY:</u>	1,5 YEARS

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

Minutes № / 2021

HEAD OF DEPARTMENT OF
AUTOMATION OF MINE PRODUCTION:

(Assoc. Prof. Dr. R. Alexandrov)

DEAN:

(Assoc. Prof. Dr. K. Dzhustrov)

CURRICULUM

EDUCATIONAL AND QUALIFICATION DEGREE: MASTER

COURSE OF STUDY: AUTOMATION, INFORMATION, AND CONTROL ENGINEERING

VOCATIONAL FIELD: 5.2 ELECTRICAL ENGINEERING, ELECTRONICS, AND AUTOMATION

FORM OF STUDY: PART-TIME

DURATION OF STUDY: 1.5 YEARS

Duration of each semester: 3 weeks

Year	Semester	№	Course unit code	Full name of the course units (course projects, practical training)	Form of control	Teaching hours		Overall teaching hours by type of seminar			Overall academic load per semester	Credits acc. to ECTS	
						L	S	S	Lab	P			
First	First	1	362132	Computer Networks and Communications	E	15	15		15		30	5	
		2	332119	Microcontrollers	E	23	30		30		53	8	
		3	332115	Computer Simulation and Design	E	15	30		30		45	7	
		4	362148	Control Systems for Administrative and Economic Activities	E	15	23		23		38	5	
		5	332130	Control of Technological Systems	E	15	23		23		38	5	
	Overall for the first semester					5	83	121		121		204	30
	Second	6	332132	Intelligent Control Systems	E	15	23		23		38	6	
		7	332140	Control of Electro-Mechanical Systems	E	15	30		30		45	7	
		8	332133	Mechatronics	E	15	30		30		45	7	
		9	362138	Applied Software Development	E	15	23		23		38	5	
10		332144	Information and Measuring Technologies and Diagnostic Systems	E	15	23		23		38	5		
Overall for the second semester					5	75	129		129		204	30	
Second	Third	Development and defence of the diploma thesis										15	
OVERALL FOR THE FULL COURSE OF STUDY					10	158	250		250		408	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: **408**

Academic load: **408**

lectures: **158**

seminars: **250**

- seminars

- laboratory seminars **250**

- practical seminars

Extracurricular load (practical training):

Number of exams: **10**

Items of continuous assessment: