



FACULTY OF MINING ELECTROMECHANICS

CURRICULUM

VOCATIONAL FIELD:

**5.2. ELECTRICAL ENGINEERING,
ELECTRONICS, AND AUTOMATION**

COURSE OF STUDY:

**AUTOMATION, INFORMATION, AND CONTROL
ENGINEERING**

EDUCATIONAL AND QUALIFICATION DEGREE:

MASTER

VOCATIONAL QUALIFICATION:

ENGINEER IN AUTOMATION

FORM OF STUDY:

FULL-TIME

DURATION OF STUDY:

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
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: 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	362132	Computer Networks and Communications	E	2	2		30		60	5	
		2	332119	Microcontrollers	E	3	4		60		105	8	
		3	332115	Computer Simulation and Design	E	2	4		60		90	7	
		4	362148	Control Systems for Administrative and Economic Activities	E	2	3		45		75	5	
		5	332130	Control of Technological Systems	E	2	3		45		75	5	
	Overall for the first semester					5	11	16		240		405	30
	Second	6	332132	Intelligent Control Systems	E	2	3		45		75	6	
		7	332140	Control of Electro-Mechanical Systems	E	2	4		60		90	7	
		8	332133	Mechatronics	E	2	4		60		90	7	
		9	362138	Applied Software Development	E	2	3		45		75	5	
10		332144	Information and Measuring Technologies and Diagnostic Systems	E	2	3		45		75	5		
Overall for the second semester					5	10	17		255		405	30	
Development and defence of the diploma thesis												15	
OVERALL FOR THE FULL COURSE OF STUDY					10	21	33		495		810	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: **810**

Academic load: **810**

lectures: **315**

seminars: **495**

- seminars

- laboratory seminars **495**

- practical seminars

Extracurricular load (practical training):

Number of exams: **10**

Items of continuous assessment: