



FACULTY OF MINING ELECTROMECHANICS

CURRICULUM

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| <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> | 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
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: 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 (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 | 23 | 23 | 13 | 10 | | 46 | 6 | |
| | | 2 | 352121 | Gas Measurement and Gas Regulation Equipment | E | 23 | 15 | 15 | | | 38 | 5 | |
| | | 3 | 362132 | Computer Networks and Communications | E | 15 | 15 | | 15 | | 30 | 4 | |
| | | 4 | 332104 | Automation of Production | E | 15 | 15 | 7 | 8 | | 30 | 4 | |
| | | 5 | 322109 | Electrical Equipment in Explosion-Risk Production | E | 15 | 23 | | 23 | | 38 | 5 | |
| | | 6 | 362148 | Control Systems for Administrative and Economic Activities | E | 15 | 23 | | 23 | | 38 | 5 | |
| | Overall for the first semester | | | | | 6+0 | 106 | 114 | 35 | 79 | | 220 | 29 |
| | Second | Second | 7 | 352126 | Hydro- and Pneumodynamics | E | 23 | 23 | 15 | 8 | | 46 | 7 |
| | | | 8 | 162135 | Design of Systems for Transport of Oil and Gas Along Main Pipelines | E | 23 | 23 | 15 | 8 | | 46 | 7 |
| | | | 9 | 352128 | Management and Control of Gas, Combustion, and Purifying Equipment | E | 23 | 15 | 15 | | | 38 | 5 |
| | | | 10 | 312164 | Computer Modelling of Mechanical Systems | E | 15 | 23 | | 23 | | 38 | 5 |
| | | | 11 | 322111 | Renewable Sources of Energy | E | 15 | 23 | 23 | | | 38 | 6 |
| Overall for the second semester | | | | | 5+0 | 99 | 107 | 68 | 39 | | 206 | 30 | |
| | | 12 | 352123 | Pre-diploma production practical training | CA | | | | | | 20 | 1 | |
| Second | Third | | | Development and defence of the diploma paper | | | | | | | | 15 | |
| OVERALL FOR THE FULL COURSE OF STUDY | | | | | 11+1 | 205 | 221 | 103 | 118 | | 446 | 75 | |

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

Parameters of the Curriculum:

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| Overall teaching hours for the full course of study: | 446 |
| Academic load: | 426 |
| lectures: | 205 |
| seminars: | 221 |
| - seminars | 103 |
| - laboratory seminars | 118 |
| Extracurricular load (practical training): | 20 |
| Number of exams: | 11 |
| Items of continuous assessment: | 1 |