



**UNIVERSITY OF MINING AND GEOLOGY  
"ST. IVAN RILSKI"  
SOFIA**

**THE FACULTY OF GEO-EXPLORATION**

**CURRICULUM**

|                                      |  |
|--------------------------------------|--|
| VOCATIONAL FIELD:                    | <b>5.8 "EXPLORATION, MINING, AND PROCESSING OF MINERALS"</b> |
| COURSE OF STUDY:                     | <b>GASSUPLY</b>  |
| EDUCATIONAL AND QUALIFICATION DEGREE | <b>MASTER</b>  |
| PROFESIONAL QUALIFICATION            | <b>ENGINEER OF GASIFICATION</b>                              |
| FORM OF STUDY                        | <b>FULL-TIME</b>   |
| DURATION OF STUDY                    | <b>1.5 YEAR</b>  |

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

Minutes № .....

Head of Department of „DPTOG“:.....  
Assoc. Prof. Rumen Kulev

DECAN: .....  
Assoc. Prof. Boris Valchev

**Sofia, 2021**

# CURRICULUM

EDUCATIONAL AND QUALIFICATION DEGREE "MASTER"

COURSE OF STUDY: "GASSUPPLY"

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

FORM OF STUDY: FULL-TIME

DURATION OF STUDY: 1,5 YEARS

Duration of each semester: 15 weeks

| Year  | Semester                      | №      | Course unit code                         | Full name of the course units<br>(course projects, practical training)   | Form of control | Teaching hours<br>(weekly) |           | Overall teaching hours by type of seminar |            |           | Overall academic load per semester | Credits acc. to ECTS |           |
|---|-------------------------------|--------|--|--|-----------------|----------------------------|-----------|---|------------|-----------|------------------------------------|----------------------|-----------|
|   |                               |        |  |  |                 | L                          | S         | S   | Lab        | PS        |                                    |                      |           |
| First                                       | First                         | 1      | 112154                                   | Properties of Natural Gases and Gaseous Fuels  | E               | 2                          | 2         |   | 30         |           | 60                                 | 4                    |           |
|   |                               | 2      | 162142                                   | Equipment and Technology in Gas Production   | E               | 2                          | 3         | 45  |            |           | 75                                 | 6                    |           |
|   |                               | 3      | 162143                                   | Over- and Underground Gas Storage  | И               | 2                          | 3         | 45  |            |           | 75                                 | 6                    |           |
|   |                               | 4      | 162144                                   | Design and Construction of Gas Supply Systems  | E               | 3                          | 3         | 45  |            |           | 90                                 | 7                    |           |
|   |                               | 5      | 162259<br>152234                         | <i>Elective courses:</i><br>Diagnostics and Non-Destructive Control of Gas Pipeline Systems and Installations<br>Engineering Geology in the Construction of Pipeline Systems | E               | 1                          | 2         |   | 30         |           | 45                                 | 3                    |           |
|   |                               | 6      | 162145                                   | Information Management Systems in Gas Supply   | E               | 2                          | 2         | 30  |            |           | 60                                 | 4                    |           |
|   |                               | 7      | 371300                                   | Physical Education and Sports - optional   | CA              |                            | 2*        |   |            | 30*       | 30*                                | 1*                   |           |
|   | <b>Общо за първи семестър</b> |        |  |  |                 | <b>6</b>                   | <b>12</b> | <b>15</b>                                 | <b>165</b> | <b>60</b> |                                    | <b>405</b>           | <b>30</b> |
|   | Second                        | 8      |  | Economy and management of the gas company  | CA              | 1                          | 2         | 30  |            |           | 45                                 | 4                    |           |
|   |                               | 9      | 162158                                   | Heating, Ventilation, and Air-Conditioning (HVAC)  | E               | 2                          | 3         | 30  | 15         |           | 75                                 | 6                    |           |
|   |                               | 10     | 162146                                   | Operation and Repair of Gas Supply Systems   | E               | 2                          | 3         | 45  |            |           | 75                                 | 5                    |           |
|   |                               | 11     | 162136                                   | Industrial and Municipal/Domestic Gasification   | E               | 2                          | 3         | 30  | 15         |           | 75                                 | 6                    |           |
|   |                               | 12     | 162147                                   | Gas Metering and Regulating Equipment  | E               | 2                          | 3         | 45  |            |           | 75                                 | 5                    |           |
|   |                               | 13     | 162148                                   | Legislation in Gas Supply  | E               | 2                          | 2         | 30  |            |           | 60                                 | 4                    |           |
| 14  |                               | 371300 | Physical Education and Sports - OPTIONAL | CA   |                 | 2*                         |           |   | 30*        | 30*       | 1*                                 |                      |           |
| <b>Общо за втори семестър</b>               |                               |        |  |  | <b>5+1</b>      | <b>11</b>                  | <b>16</b> | <b>210</b>                                | <b>30</b>  |           | <b>405</b>                         | <b>30</b>            |           |
| <b>Общо за първата година</b>               |                               |        |  |  | <b>11+1</b>     | <b>23</b>                  | <b>31</b> | <b>375</b>                                | <b>90</b>  |           | <b>810</b>                         | <b>60</b>            |           |
| Second                                      | Third                         | 15     | 162161                                   | Pre-diploma practice - 15 days   |                 |                            |           |   |            | 90        |                                    |                      |           |
|   |                               |        |  | Development and defence of the diploma paper   |                 |                            |           |   |            |           | 15                                 |                      |           |
| <b>OVERALL FOR THE FULL COURSE OF STUDY</b> |                               |        |  |  | <b>11+1</b>     | <b>23</b>                  | <b>31</b> | <b>375</b>                                | <b>90</b>  |           | <b>900</b>                         | <b>75</b>            |           |

The credits over 75 are from the course "Sport" and they are marked with (\*)

Abbreviations: E - examination; CA -continuous assessment; L - lectures; Lab - laboratory seminars; S -seminars; P - practical seminars; CP – course project.

Parameters of the Curriculum:

|  |          |
|--|----------|
| Overall teaching hours for the full course of: | 900 часа |
| Academic load:                                 | 810 часа |
| lectures:                                      | 345 часа |
| seminars:                                      | 465 часа |
| - seminars                                     | 375 часа |
| - laboratory seminars:                         | 90 часа  |
| - practical seminars:                          | 0 часа   |
| Extracurricular load (practical training):     | 90 часа  |
| Number of exams:                               | 11       |
| Items of continuous assessment:                | 1        |