



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

**THE FACULTY OF GEO-EXPLORATION**

**C U R R I C U L U M**

VOCATIONAL FIELD:	<b>5.8 "EXPLORATION, MINING, AND PROCESSING OF MINERALS"</b>
COURSE OF STUDY:	<b>MANAGEMENT OF THE GAS INFRASTRUCTURE</b>
EDUCATIONAL AND QUALIFICATION DEGREE	<b>MASTER</b>
PROFESIONAL QUALIFICATION	<b>ENGINEER OF GAS INFRASTRUCTURE</b>
FORM OF STUDY	<b>PART-TIME</b>
DURATION OF STUDY	<b>2 YEARS</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: "MANAGEMENT OF THE GAS INFRASTRUCTURE"

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

FORM OF STUDY: PART-TIME

DURATION OF STUDY: 2 YEAR

Duration of each semester: 30 days

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	PS		
First	First	1	162149	Fundamentals in Gas Exploration and Production	E	15	15	15			30	5
		2	162142	Properties of Natural Gases and Gaseous Fuels	E	8	15		15		23	3
		3	162150	Equipment and Technology for the Transport and Distribution of Natural Gas	E	15	23	23			38	6
		4	162151	Design of Gas Supply Systems	E	22	23	23			45	8
		5	162152	Course project in Design of Gas Supply Systems			8	8			8	
	<b>Overall for the first semester</b>					<b>4</b>	<b>60</b>	<b>84</b>	<b>69</b>	<b>15</b>	<b>144</b>	<b>22</b>
	Second	6	162153	Use of Gaseous Fuels	E	15	15		15		30	4
		7	162145	Information Management Systems in Gas Supply	E	15	15	15			30	4
		8	162154	Reservation of Gas Consumption	E	15	23	15	8		38	6
		9	162155	Technical Diagnostics and Maintenance of Gas Pipelines and Distribution Systems	E	22	23	15	8		45	7
<b>Overall for the second semester</b>					<b>4</b>	<b>67</b>	<b>76</b>	<b>45</b>	<b>31</b>	<b>143</b>	<b>21</b>	
<b>Overall for the first year</b>					<b>8</b>	<b>127</b>	<b>160</b>	<b>114</b>	<b>46</b>	<b>287</b>	<b>43</b>	
Second	Third	10	162156	Risk Management in Gas Supply	E	15	15	15			30	4
		11	162157	Rules, Standards, and Codes for the Management of Gas Infrastructure	E	15	23	23			38	6
		12		Economy and management of the gas company	CA	8	15	15			23	3
		13	172149	Ecological and Technological Safety and Environmental Impact	CA	15	15	15			30	4
	<b>Overall for the third semester</b>					<b>2+2</b>	<b>53</b>	<b>68</b>	<b>68</b>		<b>121</b>	<b>17</b>
	Fourth	14	162161	Pre-diploma practice - 9 days							45	
				Development and defence of the diploma paper								15
<b>Overall for the second year</b>					<b>2+2</b>	<b>53</b>	<b>68</b>	<b>68</b>		<b>166</b>	<b>32</b>	
<b>OVERALL FOR THE FULL COURSE OF STUDY</b>					<b>10+2</b>	<b>180</b>	<b>228</b>	<b>182</b>	<b>46</b>	<b>453</b>	<b>75</b>	

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:	453 h
Academic load:	408 h
lectures:	180 h
seminars:	228 h
- seminars	182 h
- laboratory seminars	46 h
- practical seminars	0 h
Extracurricular load (practical training):	45 h
Number of exams:	10
Items of continuous assessment:	2