

# CURRICULUM

EDUCATIONAL AND QUALIFICATION DEGREE: MASTER  
 COURSE OF STUDY: PETROLEUM GEOPHYSICS  
 VOCATIONAL FIELD: 4.4. EARTH SCIENCES

FORM OF STUDY: FULL TIME  
 DURATION OF STUDY: 1.5 YEARS  
 Duration of the semester: 15 weeks

Year	Semester	N	Course unit code	Full name of the course unit (course projects, practical trainings)	Form of control	Teaching hours		Overall teaching hours per semester	Credits according to ECTS	
						L	S			
FIRST	First	1	142123	Methods for solving ill-posed problems in geophysics	E	3	3	90	7	
		2	142126 142140	<i>Elective courses:</i> Applied mathematics Radio-wave methods and appliances in geophysics	E	2	3	75	6	
				3	142125	Engineering geophysics	E	3	3	90
		4	272148	Information seeking systems	E	2	3	75	6	
			431100	Physical education and sports - <i>Optional course</i>			2	30		
			421110	Foreign language - <i>Optional course</i>			2	30		
	<b>Overall for the 1st semester:</b>						<b>10</b>	<b>12</b>	<b>330</b>	<b>26</b>
	Second	5	142124	Statistical methods for analysis, processing and interpretation of geophysical data	E	2	3	75	6	
		6	112114	Petroleum geology	E	3	3	90	7	
		7	162133	Production, transport and preservation of oil and gas	E	2	3	75	6	
		8	142127 142232	<i>Elective courses:</i> Analysis and automated processing of geophysical signals Digital processing of images	E	3	3	90	7	
				431100	Physical education and sports - <i>Optional course</i>			2	30	
			421110	Foreign language - <i>Optional course</i>			2	30		
	<b>Overall for the 2nd semester:</b>						<b>10</b>	<b>12</b>	<b>330</b>	<b>26</b>
SECOND	Third	9	142133	Petroleum geophysics	E	3	3	90	7	
		10	142231 142236 142230	<i>Elective courses:</i> Seismology and fundamentals of seismic hazard mapping Geothermics Seismotectonics	E	3	3	90	7	
				431100	Physical education and sports - <i>Optional course</i>			2	30	
				421110	Foreign language - <i>Optional course</i>			2	30	
	<b>Overall for the 3rd semester:</b>						<b>6</b>	<b>6</b>	<b>180</b>	<b>14</b>
	<b>OVERALL FOR THE FULL COURSE OF STUDY :</b>						<b>26</b>	<b>30</b>	<b>840</b>	<b>66</b>
<b>WRITING AND DEFENDING MASTER'S THESIS</b>									<b>15</b>	
<b>OVERALL CREDITS ACCORDING TO ECTS FOR THE FULL COURSE OF STUDY :</b>									<b>81</b>	