CURRICULUM

EDUCATIONAL AND QUALIFICATION DEGREE: MASTER
COURSE OF STUDY: APPLIED 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		*Elective courses:*					
			142126	Applied mathematics	E	2	3	75	6
			142140	Radio-wave methods and appliances in geophysics					
		3	142125	Engineering geophysics	E	3	3	90	7
		4	272148	Information seeking systems	E	2	3	75	6
			431100	Physical education and sports - *Optional course*			2	30	
			421110	Foreign language - *Optional course*			2	30	
				Overall for the 1st semester:		***10***	***12***	***330***	***26***
	Second	5	142124	Statistical methods for analysis, processing and interpretation of geophysical data	E	2	3	75	6
		6	142228	Gravimetry	E	3	3	90	7
		7	142129	Earth magnetism and geoelectric fields	E	2	3	75	6
		8		*Elective courses:*					
			142127	Analysis and automated processing of geophysical signals	E	3	3	90	7
			142232	Digital processing of images					
			431100	Physical education and sports - *Optional course*			2	30	
			421110	Foreign language - *Optional course*			2	30	
				Overall for the 2nd semester:		***10***	***12***	***330***	***26***
SECOND	Third	9	142139	Exploration geophysics	E	3	3	90	7
		10		*Elective courses:*					
			142231	Seismology and fundamentals of seismic hazard mapping	E	3	3	90	7
			142236	Geothermics					
			142230	Seismotectonics					
			431100	Physical education and sports - *Optional course*			2	30	
			421110	Foreign language - *Optional course*			2	30	
				Overall for the 3rd semester:		***6***	***6***	***180***	***14***
				OVERALL FOR THE FULL COURSE OF STUDY :		***26***	***30***	***840***	***66***
				WRITING AND DEFENDING MASTER'S THESIS					***15***
				OVERALL CREDITS ACCORDING TO ECTS FOR THE FULL COURSE OF STUDY :					***81***