Postgraduate Program of Studies in EARTH SCIENCES AND THE ENVIRONMENT (M.Sc.) 2019-2021

FIRST YEAR

SEMESTER $I(f^t)$

α/α	AREAS	Code Number	LESSONS	COMPULSORY	ECTS CREDITS
1.	GEO_AGG01		Geology of ground-water occurrence	С	6
2.	ione 1970:	GEO_AGG02	Applications of Engineering Geology in infrastructure projects	С	6
3.	Viro	GEO_AGG03	Natural hazards and the environment	С	6
4.	Applied Environmental Geology and Geophysics	GEO_AGG04	Applications of Remote Sensing and GIS in Applied Environmental Geology	С	6
5.	Appli Geolo	GEO_AGG05	Geophysics in Civil Engineering and Water resources	С	6
1.	sing s in ces	GEO_CAD01	Lithosphere tectonics and mechanics	С	8
2.	oces. alysi cien	GEO_CAD02	Sedimentary Environments and Geochemical Processes	С	8
3.	Data processing and analysis in Earth Sciences	GEO_CAD03	Geological processes in coastal and deep sea environments	С	7
4.	Dat am Ea	GEO_CAD04	Natural Hazards	С	7
1.	ţ	GEO_OME01	Environmental impacts from exploitation of earth materials – Rehabilitation of landscape and the environment	С	8
2.	Earth Materials - Environment	GEO_OME02	Earth materials and environmental applications	С	8
	s - Em			ELECTIVE (selection of two)	
3.	erial	GEO_OME03	Advanced topics in Mineralogy/Petrology/Ore Geology	Ε	7
4.	h Mate	GEO_OME04	Earth Materials and Sustainable Development	E	7
5.	Earti	GEO_OME05	Instrumental methods for the analysis of earth materials	Ε	7
6.	r	GEO_OME06	Volcanic Hazards	Ε	7

SEMESTER II (2nd)

α/α	AREAS	Code Number	LESSONS	COMPULSORY	ECTS CREDITS
1.	n tal sics	GEO_THE1	M.Sc Thesis I	С	16
	Environmental and Geophysics			ELECTIVE (selection of two)	
2.	Envii und C	GEO_AGG06	Hydrogeochemical processes-Water Quality	E	7
З.	ied . ogy c	GEO_AGG07	Geotechnical surveys and studies - Instrument and monitoring	E	7
4.	Applied . Geology c	GEO_AGG08	Advanced Seismological Applications	E	7
5.		GEO_AGG09	Fieldwork using mobile GIS, GNSS (GPS) and UAV-USV	E	7
	is in			COMPULSORY	
1.	ocessing and analysis in Earth Sciences	GEO_THE1	MSc Thesis I	С	16
	g and an Sciences			ELECTIVE (selection of two)	
2.	cessing Earth S	GEO_CAD05	Processing and analysis of structural geology data	E	7
З.		GEO_CAD06	Analysis of sedimentary basins - Stratigraphy	E	7
4.	Data pr	GEO_CAD07	Analysis and interpretation of marine geophysical data	Ε	7

5.		GEO_CAD08	Collection and processing of Paleontological and Stratigraphic data	Ε	7
				COMPULSORY	
1.	ent	GEO_THE1	M.Sc Thesis I	С	16
	ironm			ELECTIVE (selection of two)	
2.	Env	GEO_OME07	Preservation and Promotion of the Geologic and Cultural Heritage	E	7
З.		GEO_OME08	Clays and the Environment	Ε	7
4.	Materials	GEO_OME09	Gemstones	E	7
5.	Mat	GEO_OME10	Geochemical processes in soil protection systems	E	7
6.	Earth	GEO_OME11	Archaeometric approaches for the study of ancient ceramic and stone artefacts	E	7
7.		GEO_0ME12	Geological, Industrial and Environmental Applications of Organic Petrology	E	7

SECOND YEAR

SEMESTER III (3rd)

α/α	AREAS	Code Number	LESSONS	COMPULSORY	ECTS CREDITS
1.	Applied Environmental Geology and Geophysics	GEO_THE2	M.Sc. Thesis II	С	30
1.	Data processing and analysis in Earth Sciences	GEO_THE2	M.Sc. Thesis II	С	30
1.	Earth Materials - Environment	GEO_THE2	M.Sc. Thesis II	С	30