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

Specialization: "Applied Environmental Geology and Geophysics"

This course is designed to equip students with an advanced, interdisciplinary knowledge of applied geology (engineering geology, hydrogeology and geophysics) with special emphasis ontechniques related to environmental protection and management (land and water pollution, urban planning and regional sustainable development, natural hazard mitigation)addressed with the use of remote sensing and GIS.

FIRST YEAR

SEMESTER I (1st)

No.	AREA	AREA Code Number MODULES		COMPULSORY (C) or ELECTIVE (E)	ECTS CREDITS
1.	Applied Environmental Geology and Geophysics	GEO_AGG01 Geology of ground-water occurrence		C	6
2.		GEO_AGG02 Applications of Engineering Geology in infrastructure projects		C	6
3.		GEO_AGG03	Natural hazards and the environment	C	6
4.		GEO_AGG04	Applications of Remote Sensing and GIS in Applied Environmental Geology	С	6
5.		GEO_AGG05	Geophysics in Civil Engineering and Water resources	С	6

SEMESTER II (2nd)

No.	AREA Code Number		MODULES	COMPULSORY (C) or ELECTIVE (E)*	ECTS CREDITS
1.		GEO_THE1	M.Sc Thesis I	C	16
	Applied			ELECTIVE (selection of two)	
2.	Geology and	GEO_AGG06	Hydrogeochemical processes-Water Quality	E	7
3.		82		E	7
4.		GEO_AGG08	Advanced Seismological Applications	E	7
5.		GEO_AGG09	Fieldwork using mobile GIS, GNSS (GPS) and UAV-USV	E	7

^{* (}selection of two)

SECOND YEAR

SEMESTER III (3rd)

No.	AREA Code Numi		MODULES	COMPULSORY	ECTS CREDITS
1.	Applied Environmental Geology and Geophysics	GEO_THE2	M.Sc. Thesis II	С	30