PhD teaching program in Earthquake and Environmental Hazard (EEH)

The teaching program of the PhD course in EEH is organized in two main training mandatory modules (50 hours per module) provided at Ud'A for a total of 100 hours (10 credits). The students are required to take additional courses and/or seminars at Ud'A or elsewhere, chosen in agreement with their supervisors, for a total of 50 hours (5 credits).

Considering the restriction caused by the pandemic situation, the lectures will be held in telematic mode via Microsoft Teams platform, Team "Didattica Dottorato EEH" organized in the following 5 channels.

1- First year XXXVI cycle - Common *Lexicum* -
2- Second and Third years – *ARCHEO* – Specific topic
3- Second and Third years – *GEO* – Specific topic
4- Second and Third years – *PSI* – Specific topic
5- Seminars

The channels are made visible to all PhD students and lecturers with the aim to encourage users to participate and attend the provided courses and promote the inter-disciplinary teaching and research activities.

1° Year EEH Teaching activity: Building a common "LEXICUM" (XXXVII cycle)				
Hours	**Lectures**	**Teachers**	**SSD**	***Title***
4h	Basics of Environmental Hazard	Gialuigi Rosatelli	GEO/08	*Introduction to water pollution: overview of effects and prevention*
4h		Paolo Cristofanelli/ Giacomo Alessandro Gerosa	FIS/06	*Introduction to air quality and Climate change research*
2h	Basics of Geology and Seismology of Earthquakes for Seismic Hazard Assessment	Giusy Lavecchia	GEO/03	*Introduction to Seismotectonics: geology and seismology synergy*
4h		Paolo Boncio	GEO/03	*Geological Earthquakes effects*
4h		Rita de Nardis	GEO/10	*Common lexicon in Earthquake Seismology*
10h	Interdisciplinary field trip	Francesco Brozzetti	GEO/03	*Active faults natural laboratory*
4h	Basics of Geoarchaeology and Archaeometry	Silvano Agostini	L-ANT/07	*Case studies of paleoseismology and archeoseismology*
3h	Role of Science in Legal systems	Francesco Stoppa	GEO/07	*The science needs to be communicated: three Italian cases studies*
3h 20''	The role of psychological variables in the definition and evaluation of risk	Michela Cortini	M-PSI/06	*From qualitative to quantitative methods in psychology*
3h 20''		Cristina Verrochio	M-PSI/08	*Environmental hazards, physical and mental health*
3h 20''		Beth Fairfield	M-PSI/01	*Cognition-emotion interactions and risk perception*
5h		Chiara Berti	M-PSI/05	*Psychosocial processes in risk perception*

Total amount: 50 hours

*** To be defined according to the weather forecast and condition.*

EVERY TWO YEARS

2° Year Teaching activity for EEH students in "Psycho-sociological analysis of hazard perception and risk communication"					
Hours		**Courses**	**Teacher**	**SSD**	
10h		From qualitative to quantitative methods in psychology	**Michela Cortini & Stefania Fantinelli**	M-PSI/06	
20h		Basics of SPSS	**Daniela Marchetti & Lilybeth Fontanesi**	M-PSI/08	
10h		Environmental Hazard, Earthquakes and mental health	**Milena Mancini**	M-PSI/08	
10h		Heuristics and risk evaluation "An experimental software-based approach to the study of psychological variables in emergency contexts"	**Adolfo Di Crosta**	M-PSI/01	

Total amount: 50 hours

EVERY TWO YEARS

2° Year Teaching activity for EEH students in "Archaeology, Geoarchaeology, Archaeoseismology"					
Hours		**Courses**	**Teacher**	**SSD**	**Time schedule**
15h		Geoarchaeology/ (joined course for EEH and BASA)	**Silvano Agostini**	GEO/07	Teams-Lezioni BASA
10h		Remote Sensing (joined course for EEH and BASA)	**Lucia Marinangeli**	GEO/02	Teams - Lezioni BASA
15h		WEB Seminars of the Italian Ministry of Culture-ICA	**Elena Calandra, Valeria Acconcia**		Teams- Canale Master Starch-
10h		Sigec-WEB	**Lucia Ceci**		Teams- Canale Master Starch

Total amount: 50 hours

EVERY TWO YEARS

2° Year Teaching activity for EEH students

"Overview of Earthquake and Environmental Hazards: Impact and Perspective"

Hours		Courses	Teachers	SSD	
6		Hazards of climate change impacts	**Cristofanelli/Geros a**	FIS/06	
14	3h30'	Volcanic Hazard	**Stoppa**	GEO/07	
	3h30'	Seismic Hazard	**Akinci**	GEO/10	
	3h30'	Local seismic Hazard	**Boncio**	GEO/03	
	3h30'	Landslides Hazard	**Reichenbach**	GEO/04	
5*		**1-** Scientific and Technical activities in primary seismic emergency*****	**de Nardis/Brozzetti**	GEO/10	
				GEO/03	
5*		**2-** EM EDAX and XRD analysis short course and training*****	**Rosatelli**	GEO08	
5		Topographic and morphometric analysis in active tectonic settings.	**Ferrarini**	GEO/03	
20		3D model building for multi-case applications	**Daniele Cirillo**	GEO/03	

Total amount: 50 hours

* The student can choose to attend the course "1" or "2"

** This course will be hold next year.