

Ph.D. Course	EARTH AND ENVIRONMENTAL SCIENCES (Curriculum 1 : GEOSCIENCE Curriculum 2 : ENVIRONMENTAL BIOLOGY AND BIOTECHNOLOGIES)
Cycle	XXXVI
Scientific area	Mathematics, Physics and Natural Science
Duration	3 years
Department	Department of Biological, Geological and Environmental Science
Department website	http://www.dipbiogeo.unict.it/
Ph.D. Course Coordinator	Prof. Agata Di Stefano
Partner Institution(s)	None
Available places and Research themes	<ul style="list-style-type: none"> • Places with scholarship financed by the University of Catania: TOTAL 6 3 places for curriculum “Geoscience” – one (1) scholarship for each of the following research themes: <ol style="list-style-type: none"> 1) Analysis and evaluation of the hydrogeological and environmental risk 2) Application of innovative geophysical techniques for the study of cultural and natural heritage as well as for the identification, analysis and mitigation of risks to which they might be exposed 3) Relationships between tectonics and granitoid magmatism in collisional ranges 3 places for the curriculum “Environmental biology and biotechnologies” – one (1) scholarship for each of the following research themes: <ol style="list-style-type: none"> 1) Study of the toxicity of xenobiotics emerging on animal models and/or human populations 2) a) Spread of the infection SARS-CoV-2 and correlation with environmental and genetic parameters; b) genome organization and epigenetics; c) Study of genes of biotechnological interest within the domain of genetic forensic 3) Vegetal diversity in Mediterranean habitats • Place with scholarship for the curriculum GEO financed by the National Institute of Geophysics and Volcanology: 1 <u>Research theme</u>: Development of structural and dynamic models for the study of volcanic processes • Places without scholarship: TOTAL 1 (free choice of the research theme from one of the two curricula)
Selection procedures	<ol style="list-style-type: none"> 1) Evaluation of qualifications 2) Oral examination Candidates living abroad can take the oral interview in form of video conference interview
Date, place, format and language of the oral examination	Date: September 21 2020, h. 9,00 (9,00 am Italian time) Place: Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Sezione di Scienze della Terra, corso Italia, 57 -95129 CATANIA (room to be defined) – (the oral examination might be arranged differently according to the development of the covid-19 epidemic) Format: - Dissertation on the research project - General knowledge of the themes of the candidate’s degree and/or the themes related to the Ph.D. course Language: English
The places with scholarship will be assigned to the first three candidates in the ranking list for the curriculum “Geoscience” and to the first three candidates in the ranking list for the curriculum “Environmental biology and biotechnologies” regardless of their position on the ranking list. The grantees of the scholarship can choose the research theme to develop among those listed in the call based on their position on the ranking list	