

Area dei Servizi Istituzionali Settore Servizi agli studenti e alla didattica Ufficio Dottorati di ricerca

ATTACHMENT 1

LAST REVISED 16/05/2019

PhD IN ENVIRONMENTAL LIFE SCIENCES (under the agreement with the University of Udine) OVERVIEW

		IN DDIEF	
	DE10_4	IN BRIEF	
	PE10_4	Terrestrial ecology, land cover change	
	PE10_5	Geology, tectonics, volcanology	
	PE10_9	Biogeochemistry, biogeochemical cycles, environmental chemistry	
	PE10_13	Soil science	
	LS8_1	Ecology (theoretical and experimental; population, species and community level) Biodiversity, conservation biology, conservation genetics, invasion	
	LS8_4	biology	
Lines of research covered by	LS8_5	Evolutionary biology: evolutionary ecology and genetics, co-evolution	
the ERC panels	LS8_8	Environmental and marine biology	
	LS8_9	Environmental toxicology at the population and ecosystems level	
	LS8_10	Microbial ecology and evolution	
	LS9_3	Agriculture related to animal husbandry, dairying, livestock raising	
	LS9_5	Agriculture related to crop production, soil biology and cultivation, applied plant biology	
	LS8_2	Population biology, population dynamics, population genetics	
	LS2	Genetics, Genomics, Bioinformatics and Systems Biology	
Administrative location	University of Trieste		
Organizing Department	Department of Life Sciences		
Partner University	University of Udine		
Partner University Department	Department of Agricultural, Food, Animal and Environmental Sciences		
Duration	3 years		
Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)	0 - 18		
Official language	Italian		
Language (alternative to Italian) partially used in PhD activities	Part of the teaching program, and particularly part of the seminars, will be in English. Students can present annual reports and the final thesis in English.		
Subject Areas	04	EARTH SCIENCES	
(in alphabetical code order)	05	BIOLOGY	
Macro Research Fields	07	AGRICULTURAL AND VETERINARY SCIENCES	
(in alphabetical code order)	04/A	EARTH SCIENCES	
(а.р. а.г. содо с. до.)	05/A	PLANT BIOLOGY	
	05/B 05/C	ANIMAL BIOLOGY AND ANTHROPOLOGY ECOLOGY	
	00/0	LOOLOOT	

	- 05/0	EVERDIMENTAL AND OLINIOAL BUADANCOLOGY
	05/G	EXPERIMENTAL AND CLINICAL PHARMACOLOGY
	05/I	GENETICS AND MICROBIOLOGY
	07/B	AGRICULTURAL AND FOREST SYSTEMS
	07/C	AGRICULTURAL, FOREST AND BIOSYSTEMS ENGINEERING
	07/E	AGRICULTURAL CHEMISTRY, AGRICULTURAL GENETICS AND PEDOLOGY
	AGR/02	AGRONOMY AND FIELD CROPS
	AGR/05	FOREST MANAGEMENT AND SILVICULTURE
	AGR/08	AGRICORULTAL HYDRAULICS AND WATERSHED PROTECTION
	AGR/10	RURAL BUILDINGS AND AGRO-FOREST LAND PLANNING
	AGR/13	AGRICULTURAL CHEMISTRY
	BIO/01	GENERAL BOTANY
Scientific Disciplinary Sectors	BIO/02	SYSTEMATIC BOTANY
(in alphabetical code order)	BIO/03	ENVIRONMENTAL AND APPLIED BOTANY
	BIO/04	PLANT PHYSIOLOGY
	BIO/05	ZOOLOGY
	BIO/07	ECOLOGY
	BIO/14	PHARMACOLOGY
	BIO/18	GENETICS
	GEO/08	GEOCHEMISTRY AND VOLCANOLOGY
Domain European Research		
	LS	LIFE SCIENCES
Domain European Research Council	LS PE	LIFE SCIENCES PHYSICAL SCIENCES AND ENGINEERING
Council	PE	PHYSICAL SCIENCES AND ENGINEERING EVOLUTIONARY, POPULATION AND ENVIRONMENTAL BIOLOGY: EVOLUTION, ECOLOGY, ANIMAL BEHAVIOUR, POPULATION BIOLOGY, BIODIVERSITY, BIOGEOGRAPHY, MARINE BIOLOGY,
Council	PE LS8	PHYSICAL SCIENCES AND ENGINEERING EVOLUTIONARY, POPULATION AND ENVIRONMENTAL BIOLOGY: EVOLUTION, ECOLOGY, ANIMAL BEHAVIOUR, POPULATION BIOLOGY, BIODIVERSITY, BIOGEOGRAPHY, MARINE BIOLOGY, ECOTOXICOLOGY, PROKARYOTIC BIOLOGY APPLIED LIFE SCIENCES AND BIOTECHNOLOGY: AGRICULTURAL, ANIMAL, FISHERY, FORESTRY AND FOOD SCIENCES; BIOTECHNOLOGY, CHEMICAL BIOLOGY, GENETIC ENGINEERING, SYNTHETIC BIOLOGY, INDUSTRIAL BIOSCIENCES; ENVIRONMENTAL BIOTECHNOLOGY AND

	WHO'S WHO		
	In partnership with the University of Udine		
Chair	Prof. Giorgio Alberti – Department of Agricultural, Food, Animal and Environmental Sciences - University of Udine – phone N.+39 0432 558608; fax +39 0432 558603; email giorgio.alberti@uniud.it		
Vice	Prof. Antonio Terlizzi – Department of Life Sciences – University of Trieste - phone +39 040 5588829; email aterlizzi@units.it		
PhD Academic Board	List of members		
Web site	https://sites.google.com/site/phdenvlifesci/home		
email	dottorato.ambientevita@units.it		

Course description and objectives	the ana env It in Ter cyc (the Bio Evc Env pop (LS plai	e PhD Course aims to prepare well-qualified scientists able to critically manage implementation of EU and national regulations concerning with environmental alysis and to autonoumously develop research activities in the field of ironment. The course is focused on both theorethical and experimental activities. cludes the following ERC research areas: restrial ecology, land cover change (PE10_4); Biogeochemistry, biogeochemical les, environmental chemistry (PE10_9); Soil science (PE10_13); Ecology coretical and experimental; population, species and community level) (LS8_1); diversity, conservation biology, conservation genetics, invasion biology (LS8_4); olutionary biology: evolutionary ecology and genetics, co-evolution (LS8_5); rironmental and marine biology (LS8_8); Environmental toxicology at the culation and ecosystems level (LS8_9); Microbial ecology and evolution 8_10); Agriculture related to animal husbandry, dairying, livestock raising 9_3); Agriculture related to crop production, soil biology and cultivation, applied at biology (LS9_5); Population biology, population dynamics, population genetics 8_2); Genetics, Genomics, Bioinformatics and Systems Biology (LS2).
Job placement opportunities	Possible job placements are mainly in the environmental research field at national or international universities or research institutions, both in marine and terrestrial area of interest. The considerable interdisciplinary approach characteristic of this PhD course will allow the training of new and complete professional figures that will afford multidisciplinary scientific issues. Methodologies learnt during the PhD course will apply to complex themes like: effects of global change on different natural ecosystems (from deep ocean to high mountains) or man-managed ones (agroecosystems, forestry, and so on); the biodiversity role in maintaining ecosystem efficiency and goods and service production; the onset of new pollution sources, the appearance of new pollutants and their effects on organisms, the management of new productive close — loop systems, the digitalization of environmental data to spreading them to the public for stimulating a general increase in the ecological awareness.	
Main cooperating international Universities and Research Institutions	1	Hopkins Marine Station, Stanford University, USA
	2	Department of Environmental Sciences, Zhejiand University, China
	3	Israel Oceanographic and Limnological Research (IOLR), Israel
	4	Institute of Botany, University of Innsbruck, Austria
	5	Los Alamos National Laboratory, New Mexico USA