



UNIVERSITÀ DEGLI STUDI DI TRIESTE

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

ATTACHMENT 5

LAST REVISED 21/05/2020

PhD IN CIVIL-ENVIRONMENTAL ENGINEERING AND ARCHITECTURE (in partnership with the University of Udine) OVERVIEW

IN BREVE	
Lines of research	CURRICULUM: Architecture <ol style="list-style-type: none">1 Theories and methodologies of architectural composition2 Studies and design of the city, landscape, territory3 Methods and forms of architectural and urban design4 Instruments and techniques of survey and representation of architecture and environment5 Economic evaluation of the natural and built environment in architectural design and urban planning6 Technological project and sustainability
	CURRICULUM: Civil-environmental engineering <ol style="list-style-type: none">1 Structural and construction engineering2 Hydraulic and infrastructure engineering3 Survey for architecture and civil engineering4 Economic evaluation of the natural and built environment in design and planning
Administrative location	University of Trieste
Organizing Department	Department of Engineering and Architecture
Partner University	University of Udine
Partner University Department	Polytechnic Department of Engineering and Architecture
Duration	3 years
Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)	0 - 6
Official language	Italian
Language (alternative to Italian) partially used in PhD activities	The PhD activity may be partly carried out in English, if there are non-Italian speaking students or on demand of the lecturer.
Subject Areas (in alphabetical code order)	08a ARCHITECTURE
	08b CIVIL ENGINEERING
Macro Research Fields (in alphabetical code order)	08/A LANDSCAPE AND INFRASTRUCTURAL ENGINEERING
	08/B STRUCTURAL AND GEOTECHNICAL ENGINEERING
	08/C DESIGN AND TECHNOLOGICAL PLANNING OF ARCHITECTURE
	08/D ARCHITECTURAL DESIGN
	08/E REPRESENTATION, CONSERVATION, RESTORATION AND HISTORY OF ARCHITECTURE

Scientific Disciplinary Sectors (in alphabetical code order)	08/F	URBAN AND TERRITORIAL PLANNING AND DESIGN
	ICAR/01	HYDRAULICS
	ICAR/04	ROADS, RAILWAYS AND AIRPORTS
	ICAR/06	SURVEYING AND MAPPING
	ICAR/09	STRUCTURAL ENGINEERING
	ICAR/10	ARCHITECTURAL ENGINEERING
	ICAR/14	ARCHITECTURAL AND URBAN DESIGN
	ICAR/17	REPRESENTATION OF ARCHITECTURE
	ICAR/21	URBAN DESIGN AND LANDSCAPE
Domain European Research Council	PE	PHYSICAL SCIENCES AND ENGINEERING
	SH	SOCIAL SCIENCES AND HUMANITIES
ERC Panels	SH3	ENVIRONMENT, SPACE AND POPULATION: ENVIRONMENTAL STUDIES, DEMOGRAPHY, SOCIAL GEOGRAPHY, URBAN AND REGIONAL STUDIES
	PE8	PRODUCTS AND PROCESSES ENGINEERING: PRODUCT DESIGN, PROCESS DESIGN AND CONTROL, CONSTRUCTION METHODS, CIVIL ENGINEERING, ENERGY SYSTEMS, MATERIAL ENGINEERING

WHO'S WHO	
In partnership with the University of Udine	
Chair	Prof. Alberto Sdegno – Polytechnic Department of Engineering and Architecture – University of Udine - tel. +39 0432 558267; email alberto.sdegno@uniud.it
Vice	Prof. Giuseppina Scavuzzo – Department of Engineering and Architecture – University of Trieste – phone +39 040 5583480 ; email gscavuzzo@units.it
PhD Academic Board	List of members
Web site	https://web.units.it/dottorato/icaa/en
Email	phd.dia@units.it
Course description and objectives	<p>The PhD course prepares culture-oriented and high scientific profile researchers to engineering applications, and enable them to develop knowledge, new methods of investigation, design and research activity in public or private bodies. The available curricula are: Architecture and Civil-Environmental Engineering.</p> <p>Activities are oriented to advanced design, theoretical analysis, soft-computing and experimentation. The first year includes courses or lectures on basic scientific subjects and organizational aspects of research, according to the weaknesses of the individual initial preparation and the selected research themes. An analysis of the state of the art will be also carried out, and the main theme of study will be identified. The second and third year will be devoted to the individual themes, and the development of a field work, which will hopefully include a period spent at research institutions, administrations, private and public institutions of international importance, will be proposed. Common features are a multidisciplinary theoretical-experimental approach and interaction with the territory and professional world.</p> <p>The main objective is the enhancement of skills and professionalism of the PhD students, with reference to the international job market. Correspondence of the planned activities to the course objectives will be evaluated during the planned meetings of the body of teachers.</p>
Job placement opportunities	The PhD Course will prepare professional figures of different researchers to work in various fields of job market: from the business to the research and educational world (university, research centres...), to public administration (municipalities, government offices...), to freelance jobs. The title of Doctor of Philosophy is also particularly valued in foreign scientific, professional and corporate fields, with important benefits for employment and career at international level.

**Main cooperating international
Universities and Research
Institutions**

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