UNIVERSITÀ DEGLI STUDI DI TRIESTE

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

ATTACHMENT 5   LAST REVISED 18/05/2017

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

IN BREVE		
Lines of research	**CURRICULUM: Architecture**	
	1	Theories and methodologies of architectural composition
	2	Instruments and techniques of survey and representation of architecture and environment
	3	Studies and design of the city, landscape, territory
	4	Real estate appraisal, architectural and environmental evaluation
	5	Technology of materials for architecture
	CURRICULUM: Civil-environmental engineering	
	1	Structural and construction engineering
	2	Hydraulic and infrastructure engineering
	3	Survey for architecture and civil engineering
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 - 12	
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)*	01	MATHEMATICS AND INFORMATICS
	04	EARTH SCIENCES
	08a	CIVIL ENGINEERING
	08b	ARCHITECTURE
Macro Research Fields *(in alphabetical code order)*	01/A	MATHEMATICS
	04/A	EARTH SCIENCES
	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
	08/F	URBAN AND TERRITORIAL PLANNING AND DESIGN
Scientific Disciplinary Sectors *(in alphabetical code order)*	GEO/05	ENGINEERING GEOLOGY
	ICAR/01	HYDRAULICS
	ICAR/04	ROADS, RAILWAYS AND AIRPORTS
	ICAR/06	SURVEYING AND MAPPING
	ICAR/09	STRUCTURAL ENGINEERING
	ICAR/10	ARCHITECTURAL ENGINEERING
	ICAR/12	ARCHITECTURAL TECHNOLOGY
	ICAR/14	ARCHITECTURAL AND URBAN DESIGN
	ICAR/17	REPRESENTATION OF ARCHITECTURE
	ICAR/21	URBAN DESIGN AND LANDSCAPE
	ICAR/22	REAL ESTATE APPRAISAL
	MAT/09	OPERATIONS RESEARCH
Domain European Research Council	PE	PHYSICAL SCIENCES AND ENGINEERING
	SH	SOCIAL SCIENCES AND HUMANITIES
ERC Panels	PE6	COMPUTER SCIENCE AND INFORMATICS: INFORMATICS AND INFORMATION SYSTEMS, COMPUTER SCIENCE, SCIENTIFIC COMPUTING, INTELLIGENT SYSTEMS
	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
	PE1	MATHEMATICS: ALL AREAS OF MATHEMATICS, PURE AND APPLIED, PLUS MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE, MATHEMATICAL PHYSICS AND STATISTICS

WHO'S WHO	
Chair	Prof. Gaetano Russo - Polytechnic Department of Engineering and Architecture – University of Udine – phone +39 0432.558080; email gaetano.russo@uniud.it
Vice	Prof. Alberto Sdegno – Department of Engineering and Architecture – University of Trieste – phone +39 0481 599238; email sdegno@units.it
Web site	http://dottorato.dia.units.it
Email	phd.dia@units.it

Course description and objectives	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, along with managerial competences. The available curricula are: Architecture and Civil-Environmental Engineering. 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 a stay in a research body of international relevance will be proposed. Common features are a multidisciplinary theoretical-experimental approach and interaction with the territory, the industrial and professional world. 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.
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 and industrial fields, with important benefits for employment and career at international level.
Main cooperating international Universities and Research Institutions	