



UNIVERSITÀ
DEGLI STUDI DI TRIESTE

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

ATTACHMENT 5

LAST REVISED 10/05/2016

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

IN BREVE

CURRICULUM: Architecture

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|---|---|
| 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 |

Lines of research

CURRICULUM: Civil-environmental engineering

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| 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

Duration

3 years

Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)

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Official language

Italian

Language (alternative to Italian) partially used in PhD activities

The PhD activity may be partly carried out in English, either upon request of the lecturer or if there are non-Italian speaking students

Subject Areas

(in alphabetical code order)

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| 01 | MATHEMATICS AND INFORMATICS |
| 08a | CIVIL ENGINEERING |
| 08b | ARCHITECTURE |
| 09 | INDUSTRIAL AND INFORMATION ENGINEERING |

Macro Research Fields

(in alphabetical code order)

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|------|---|
| 01/A | MATHEMATICS |
| 08/A | LANDSCAPE AND INFRASTRUCTURAL ENGINEERING |
| 08/B | STRUCTURAL AND GEOTECHNICAL ENGINEERING |
| 08/D | ARCHITECTURAL DESIGN |
| 08/E | REPRESENTATION, CONSERVATION, RESTORATION AND HISTORY OF ARCHITECTURE |
| 08/F | URBAN AND TERRITORIAL PLANNING AND DESIGN |
| 09/A | MECHANICAL AND AEROSPACE ENGINEERING AND NAVAL ARCHITECTURE |
| 09/G | SYSTEMS ENGINEERING AND BIOENGINEERING |

Scientific Disciplinary Sectors (in alphabetical code order)	ICAR/01	HYDRAULICS
	ICAR/04	ROADS, RAILWAYS AND AIRPORTS
	ICAR/06	SURVEYING AND MAPPING
	ICAR/09	STRUCTURAL ENGINEERING
	ICAR/14	ARCHITECTURAL AND URBAN DESIGN
	ICAR/17	REPRESENTATION OF ARCHITECTURE
	ICAR/21	URBAN DESIGN AND LANDSCAPE
	ICAR/22	REAL ESTATE APPRAISAL
	ING-IND/21	METALLURGY
	ING-IND/34	INDUSTRIAL BIOENGINEERING
	MAT/09	OPERATIONS RESEARCH
	Domain European Research Council	PE
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 - Department of Engineering and Architecture – University of Udine – phone N. 0432.558080; email gaetano.russo@uniud.it
Vice	Prof. Alberto Sdegno – Department of Engineering and Architecture – University of Trieste – phone N. 0481 599238; email sdegno@units.it
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Course description and objectives	<p>The PhD course prepares researchers with high scientific profile and culture oriented to the engineering applications, able to develop knowledge, new methods of investigation and design and research activity in public or private bodies, also with managerial competences. Curricula are active in: 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, selected 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 identified. The second and third year will be devoted to the individual themes, and it will be proposed a stay in a research body of international relevance. Common features are a multidisciplinary theoretical-experimental approach and the interaction with territory, industrial and professional world.</p> <p>Main objective is the enhancement of skills and professionalism of the PhD students, with reference to the international job market. The 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 world to the research and education one (university, research centres...), to public administration (municipalities, superintendences...), to freelance jobs. the title of Doctor of Philosophy is also particularly valued in foreign scientific and industrial fields, with important benefits internationally for employment and career.
Main cooperating international Universities and Research Institutions	1 - -