



UNIVERSITÀ DEGLI STUDI DI TRIESTE

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

ATTACHMENT 3

LAST REVISED 21/05/2020

PhD IN CHEMISTRY (in partnership with the University Ca' Foscari Venezia) OVERVIEW

IN BRIEF

Lines of research

- 1 Biocrystallography
- 2 Pharmaceutical biology
- 3 Inorganic, bio-inorganic and organometallic chemistry
- 4 Organic and bio-organic chemistry
- 5 Homogeneous and heterogeneous catalysis and bio-catalysis
- 6 Supramolecular chemistry and catalysis
- 7 Theoretical and computational chemistry
- 8 Medicinal chemistry
- 9 Analytical and environmental chemistry
- 10 Chemistry for Cultural Heritage
- 11 Electrochemistry and sensors
- 12 Green and sustainable chemistry
- 13 Chemical engineering
- 14 Advanced materials and thin films
- 15 Nanosciences and nanotechnologies
- 16 Molecular spectroscopy
- 17 Pharmaceutical Technologies
- 18 Physical chemistry
- 19 Industrial chemistry

Administrative location

University of Trieste

Organizing Department

Department of Chemical and Pharmaceutical Sciences

Participating Departments

Department of Engineering and Architecture
Department of Life Sciences

Partner University

University Ca' Foscari Venezia

Partner University Department	Department of Molecular Sciences and Nanosystems	
Duration	3 years	
Attendance abroad that entitles to a scholarship increase - min. max. of months for each PhD student (over 3 years)	2 - 18	
Official language	Italian	
Language (alternative to Italian) partially used in PhD activities	<p>The training activity is partially performed in English: some classes and most of the seminars are in English. Also those classes that are normally taught in Italian are given in English on demand (if attended by foreign students).</p> <p>At the annual meetings both the plenary lectures given by the invited speakers and the oral presentations given by the students are in English.</p> <p>The annual projects and reports, and the large majority of the theses are also in English.</p>	
Subject Areas (in alphabetical code order)	02	PHYSICS
	03	CHEMISTRY
	05	BIOLOGY
	09	INDUSTRIAL AND INFORMATION ENGINEERING
Macro Research Fields (in alphabetical code order)	02/B	PHYSICS OF MATTER
	03/A	ANALYTICAL AND PHYSICAL CHEMISTRY
	03/B	INORGANIC CHEMISTRY AND APPLIED TECHNOLOGIES
	03/C	ORGANIC, INDUSTRIAL AND APPLIED CHEMISTRY
	03/D	MEDICINAL AND FOOD CHEMISTRY AND APPLIED TECHNOLOGIES
	05/E	EXPERIMENTAL AND CLINICAL BIOCHEMISTRY AND MOLECULAR BIOLOGY
	05/G	EXPERIMENTAL AND CLINICAL PHARMACOLOGY
	09/D	CHEMICAL AND MATERIALS ENGINEERING
Scientific Disciplinary Sectors (in alphabetical code order)	BIO/11	MOLECULAR BIOLOGY
	BIO/14	PHARMACOLOGY
	CHIM/01	ANALYTICAL CHEMISTRY
	CHIM/02	PHYSICAL CHEMISTRY
	CHIM/03	GENERAL AND INORGANIC CHEMISTRY
	CHIM/04	INDUSTRIAL CHEMISTRY
	CHIM/06	ORGANIC CHEMISTRY
	CHIM/08	PHARMACEUTICAL CHEMISTRY
	CHIM/09	PHARMACEUTICAL AND TECHNOLOGICAL APPLICATIONS OF CHEMISTRY
	FIS/01	EXPERIMENTAL PHYSICS
	ING-IND/24	FUNDAMENTALS OF CHEMICAL ENGINEERING
Domain European Research Council	PE	PHYSICAL SCIENCES AND ENGINEERING
	LS	LIFE SCIENCES
ERC Panels	PE4	PHYSICAL AND ANALYTICAL CHEMICAL SCIENCES: ANALYTICAL CHEMISTRY, CHEMICAL THEORY, PHYSICAL CHEMISTRY/CHEMICAL PHYSICS

PE5	SYNTHETIC CHEMISTRY AND MATERIALS: MATERIALS SYNTHESIS, STRUCTURE-PROPERTIES RELATIONS, FUNCTIONAL AND ADVANCED MATERIALS, MOLECULAR ARCHITECTURE, ORGANIC CHEMISTRY
PE8	PRODUCTS AND PROCESSES ENGINEERING: PRODUCT DESIGN, PROCESS DESIGN AND CONTROL, CONSTRUCTION METHODS, CIVIL ENGINEERING, ENERGY SYSTEMS, MATERIAL ENGINEERING
LS9	APPLIED LIFE SCIENCES AND BIOTECHNOLOGY: AGRICULTURAL, ANIMAL, FISHERY, FORESTRY AND FOOD SCIENCES; BIOTECHNOLOGY, CHEMICAL BIOLOGY, GENETIC ENGINEERING, SYNTHETIC BIOLOGY, INDUSTRIAL BIOSCIENCES; ENVIRONMENTAL BIOTECHNOLOGY AND REMEDIATION

WHO'S WHO	
In partnership with the University Ca' Foscari Venezia	
Chair	Prof Enzo Alessio - Department of Chemical and Pharmaceutical Sciences – University of Trieste - phone +39 040.558.3961; email alessi@units.it
Vice	Prof. Alessandro Scarso – Department of Molecular Sciences and Nanosystems – University Ca' Foscari Venezia - phone +39 041 234 8569 - Lab.: +39 041 234 8575; fax +39 041 234 8517; email alesca@unive.it
PhD Academic Board	List of members
Web site	http://web.units.it/dottorato/chimica/en
Email	dottorato.chimica@units.it
Course description and objectives	The primary goal of the Ph.D course in Chemistry is the training in order to obtain proper skills in the chemistry field, to carry on an independent and autonomous research activity. Such skills will be important to be spent in many different situations and institutions, in particular public research institutions (like Universities and Research Institutes) or private companies. In this respect Ph.D students will be trained with a continuous and intense experimental research activity as well as specific high level courses, in order to be competitive at the international level. The future PhD will be trained with all experimental and theoretical tools necessary to manage general problems which will be encountered when developing new chemical compounds or processes, as well as their industrial implications. Special care will be devoted to the international mobility opportunities and to the ability to present and rationalize the results in an effective manner.
Job placement opportunities	The job placement opportunities of a future PhD will be rather wide. First the most adequate job opportunity would be that of a researcher in public institutions or private companies. In particular the PhD title would be important when special need to manage and carry on research or complex problems solving are necessary to be performed in an independent, autonomous and creative way. Also special responsibility positions in industries or large companies would be suitable for PhD.
Main cooperating international Universities and Research Institutions	<ol style="list-style-type: none"> 1 University of Sidney, Australia 2 University of Bordeaux, France 3 University of Malaga, Spain 4 University of Cardiff, UK 5 University of Groningen, Netherlands