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<b>Coordinator:</b> Gausa Navarro Manuel	
Department of Architectural Sciences (Dipartimento di Scienze per l'Architettura - DSA)	
<b>Places:</b> 6 (°) – <b>Grants:</b> 3 (*).	
(°) 2 places for graduates who have a grant from abroad.	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant based on funds from MIUR/Department of Architectural Sciences (Dipartimento di Scienze per l'Architettura - DSA), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	07/07/2016 – 9:30 am in the rooms (Head Office) at the Department of Architectural Sciences (Dipartimento di Scienze per l'Architettura - DSA), Stradone S. Agostino 37, 16123 Genova
<b>Interview</b>	08/07/2016 – 9:30 am in the rooms (Head Office) at the Department of Architectural Sciences (Dipartimento di Scienze per l'Architettura - DSA), Stradone S. Agostino 37, 16123 Genova
<b>Further information on how to present qualifications/publications</b>	On the day of the interview, candidates may present a portfolio containing previous study/research experiences. All candidates are required to present a proposal for a research project (maximum 10,000 strokes). The project will be evaluated by the Commission together with the qualifications/publications and will be discussed during the interview.
<b>Exam syllabus</b>	A paper on one of the research themes put forward by the examining Commission. An interview relating to the written test and to the candidate's research themes of interest. Reading and translation of a text in one of the foreign languages indicated.
<b>Research themes</b>	The likely research themes, which are partially the object of comparative assessment, are those linked to the teaching objectives of the Doctoral Course, according to the 4 main lines of research of the Course: 1. Territories and Settings of the Project 2. Culture and Criticism of the Project 3. Strategies and technologies of the Project 4. Communication and representation of the Project
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact person in administration: Dott.ssa Brancati Tel.: +39 010- 2095811 Email: dottoratodsa@arch.unige.it <a href="http://www.addgenova.org/DSA/it/">http://www.addgenova.org/DSA/it/</a>

<b>Coordinator:</b> Gausa Navarro Manuel	
Department of Architectural Sciences (Dipartimento di Scienze per l'Architettura - DSA)	
<b>Places:</b> 4 – <b>Grants:</b> 3 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	06/07/2016 – 2:30 pm in the rooms (Head Office) at the Department of Architectural Sciences (Dipartimento di Scienze per l'Architettura - DSA), Stradone S. Agostino 37, 16123 Genova
<b>Interview</b>	07/07/2016 – 2:30 pm in the rooms (Head Office) at the Department of Architectural Sciences (Dipartimento di Scienze per l'Architettura - DSA), Stradone S. Agostino 37, 16123 Genova
<b>Further information on how to present qualifications/publications</b>	On the day of the interview, candidates may present a portfolio containing previous study/research experiences. All candidates are required to present a proposal for a research project (maximum 10,000 strokes). The project will be evaluated by the Commission together with the qualifications/publications and will be discussed during the interview.
<b>Exam syllabus</b>	A paper on one of the research themes put forward by the examining Commission. An interview relating to the written test and to the candidate's research themes of interest. Reading and translation of a text in one of the foreign languages indicated.
<b>Research themes</b>	The likely research themes, which are partially the object of comparative assessment, are those linked to the teaching objectives of the Doctoral Course, according to the 4 main lines of research of the Course: 1. Territories and Settings of the Project 2. Culture and Criticism of the Project 3. Strategies and technologies of the Project 4. Communication and representation of the Project
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact person in administration: Dott.ssa Brancati Tel.: +39 010-2095811 Email: dottoratodsa@arch.unige.it <a href="http://www.addgenova.org/DSA/it/">http://www.addgenova.org/DSA/it/</a>

**Course in: BIOENGINEERING AND ROBOTICS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia)****Curriculum: ADVANCED AND HUMANOID ROBOTICS (CODE 6141)**

<b>Coordinator:</b> Cannata Giorgio	
Polytechnic Section of the Department of IT, Bioengineering, Robotics and Systems Engineering (Sezione Politecnica del Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi - DIBRIS)	
<b>Places:</b> 12 – <b>Grants:</b> 11 (*).	
(*) 11 grants from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Candidates must submit an exhaustive list of all the exams done during their Bachelor's and Master's degree and/or equivalents possibly indicating the averages of marks or an equivalent indicator.
<b>Research themes</b>	<p>General research themes.</p> <p>Design, realization, programming and control of robots in unstructured environments, anthropomorphic robots as well as robotic systems inspired from living organisms like plants and soft animals.</p> <p>Technologies, for the next generation of robots based on: soft and adaptable materials; soft actuators and sensors; stretchable electronics; new control paradigms; and, in general, the complete integration of form and function.</p> <p>The goal is to develop robots that can adaptively interact with their environment, learn from their mistakes, and succeed in performing safely and reliably in real-world environments. Foreseen applications for anthropomorphic robots range from real-world practical scenarios -e.g., at home, as personal assistants- to industry as co-workers, to natural or man-made disaster scenarios. Soft robots inspired from plants and soft animals address several applicative scenarios, ranging from environmental monitoring, to soil exploration in emergency situations, search and rescue, and medical applications (i.e. surgical robotics).</p> <p>Specific themes will be presented in an attached document available at the following address: <a href="http://www.iit.it/en/openings/phd-calls/">http://www.iit.it/en/openings/phd-calls/</a></p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:</p> <p>phd.biorob@dibris.unige.it</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Further information</b>	<p>For information on the research themes relevant to IIT please contact:</p> <p>Prof. Lorenzo Natale</p> <p>Email: <a href="mailto:lorenzo.natale@iit.it">lorenzo.natale@iit.it</a></p>

**Course in: BIOENGINEERING AND ROBOTICS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia)****Curriculum: BIOENGINEERING AND BIOELECTRONICS (CODE 6138)**

<b>Coordinator:</b> Cannata Giorgio	
Polytechnic Section of the Department of IT, Bioengineering, Robotics and Systems Engineering (Sezione Politecnica del Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi - DIBRIS)	
<b>Places:</b> 8 – <b>Grants:</b> 5 (*).	
(*) 4 grants from MIUR/DIBRIS funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500	
(*) 1 grant from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Candidates must submit an exhaustive list of all the exams done during their Bachelor's and Master's degree and/or equivalents possibly indicating the averages of marks or an equivalent indicator.
<b>Research themes</b>	General research themes. Biomedical imaging and medical information systems. Bioelectronics, biomedical devices and bio-sensors. Molecular, cellular and tissue engineering. Neuroengineering and neurotechnology. Micro and nano-systems in medicine and biology.  Specific themes will be presented in an attached document available at the following addresses: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a> <a href="http://www.iit.it/en/openings/phd-calls/">http://www.iit.it/en/openings/phd-calls/</a>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: <a href="mailto:phd.biorob@dibris.unige.it">phd.biorob@dibris.unige.it</a>  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Further information</b>	For information on the research themes relevant to DIBRIS please contact: Prof. Sergio Martinoia Email: <a href="mailto:sergio.martinoia@unige.it">sergio.martinoia@unige.it</a> For information on the research themes relevant to IIT please contact:  Prof. Alberto Diaspro Email: <a href="mailto:alberto.diaspro@iit.it">alberto.diaspro@iit.it</a>

**Course in: BIOENGINEERING AND ROBOTICS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia)****Curriculum: BIONANOTECHNOLOGY (CODE 6140)**

<b>Coordinator:</b> Cannata Giorgio	
Polytechnic Section of the Department of IT, Bioengineering, Robotics and Systems Engineering (Sezione Politecnica del Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi - DIBRIS)	
<b>Places:</b> 8 – <b>Grants:</b> 8 (*).	
(*) 8 grants from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Candidates must submit an exhaustive list of all the exams done during their Bachelor's and Master's degree and/or equivalents possibly indicating the averages of marks or an equivalent indicator.
<b>Research themes</b>	General research themes. Cells-to chip and cells-to-cells technologies. Advanced characterization tools and imaging. Drug-delivery. Tissue engineering. Bio materials and smart materials.  Specific themes will be presented in an attached document available at the following address:  <a href="http://www.iit.it/en/openings/phd-calls/">http://www.iit.it/en/openings/phd-calls/</a>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:  <a href="mailto:phd.biorob@dibris.unige.it">phd.biorob@dibris.unige.it</a>  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Further information</b>	For information on the research themes relevant to IIT please contact: Prof. Athanassia Athanassiou Email: <a href="mailto:athanassia.athanassiou@iit.it">athanassia.athanassiou@iit.it</a>  Prof. Francesco De Angelis Email: <a href="mailto:francesco.deangelis@iit.it">francesco.deangelis@iit.it</a>

**Course in: BIOENGINEERING AND ROBOTICS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia)****Curriculum: COGNITIVE ROBOTICS, INTERACTION AND REHABILITATION TECHNOLOGIES (CODE 6142)**

<b>Coordinator:</b> Cannata Giorgio	
Polytechnic Section of the Department of IT, Bioengineering, Robotics and Systems Engineering (Sezione Politecnica del Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi - DIBRIS)	
<b>Places:</b> 8 – <b>Grants:</b> 8 (*).	
(*) 8 grants from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Candidates must submit an exhaustive list of all the exams done during their Bachelor's and Master's degree and/or equivalents possibly indicating the averages of marks or an equivalent indicator.
<b>Research themes</b>	General research themes. Human-robot Interaction Cognitive Robotics and Architectures Developmental Robotics Social Interaction in humans and robots Action execution and Understanding Motor Learning and Robotic Rehabilitation Intention from Movements Understanding Multisensory Perception and Social Inclusion Haptic Perception and Spatial Awareness Whole Body Dynamics and Tactile Perception  Specific themes will be presented in an attached document available at the following address: <a href="http://www.iit.it/en/openings/phd-calls/">http://www.iit.it/en/openings/phd-calls/</a>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:  phd.biorob@dibris.unige.it  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Further information</b>	For information on the research themes relevant to IIT please contact: Prof. Giulio Sandini Email: <a href="mailto:giulio.sandini@iit.it">giulio.sandini@iit.it</a>

**Course in: BIOENGINEERING AND ROBOTICS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia)****Curriculum: ROBOTICS AND AUTONOMOUS SYSTEMS (CODE 6143)**

<b>Coordinator:</b> Cannata Giorgio	
Polytechnic Section of the Department of IT, Bioengineering, Robotics and Systems Engineering (Sezione Politecnica del Dipartimento di Informatica, bioingegneria, robotica e ingegneria dei sistemi - DIBRIS)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from MIUR/DIBRIS funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Candidates must submit an exhaustive list of all the exams done during their Bachelor's and Master's degree and/or equivalents possibly indicating the averages of marks or an equivalent indicator.
<b>Research themes</b>	General research themes. Advanced robot control. Robot coordination and cooperation. Sensing and state estimation. Knowledge representation. Motion planning. Real-time scheduling. Design of macro/micro robot systems. Design of sensors and actuators. Underwater, aerial and space robotics. Wheeled and legged robots. Manipulation.  Specific themes will be presented in an attached document available at the following address: <a href="http://phd.dibris.unige.it/biorob/index.php/how-to-apply">http://phd.dibris.unige.it/biorob/index.php/how-to-apply</a>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:  <a href="mailto:phd.biorob@dibris.unige.it">phd.biorob@dibris.unige.it</a>  The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Further information</b>	For information on the research themes relevant to DIBRIS please contact: Prof. Fulvio Mastrogiovanni Email: <a href="mailto:fulvio.mastrogiovanni@unige.it">fulvio.mastrogiovanni@unige.it</a>



**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: BIOIMAGING (CODE 6146)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale - DIMES)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Colloquio</b>	05/07/2016 – 2:00 pm in the Didactic Room (Aula Didattica) Tower C (Torre C) – 3rd Floor) – Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Largo R. Benzi, n. 10 – 16132 Genova.
<b>Further information on how to present qualifications/publications</b>	All candidates are requested to present a proposal for a research project (2 A4 pages maximum, character size 12) together with their qualifications/publications. The project, which will be discussed during the interview, will be evaluated by the commission together with the qualifications/publications.
<b>Exam syllabus</b>	The interview will be on the qualifications/publications and research project presented.
<b>Research themes</b>	Molecular Bioimaging. Biomedical imaging. Computational bioimaging.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: rodolfo.quarto@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Coordinator: Prof. Rodolfo Quarto Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558240 - Fax 0105558505 EMAIL: rodolfo.quarto@unige.it  Organizing Secretarial Office: Mr Enrico Zeraschi Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558266 – Fax: 0105558216 Email: enrico.zeraschi@unige.it

**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: CELLULAR AND MOLECULAR BIOTECHNOLOGIES (CODE 6144)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale - DIMES)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 2:00 pm in the Didactic Room (Aula Didattica) Tower C (Torre C) – 3rd Floor) – Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Largo R. Benzi, n. 10 – 16132 Genova.
<b>Further information on how to present qualifications/publications</b>	All candidates are requested to present a proposal for a research project (2 A4 pages maximum, character size 12) together with their qualifications/publications. The project, which will be discussed during the interview, will be evaluated by the commission together with the qualifications/publications.
<b>Exam syllabus</b>	The interview will be on the qualifications/publications and research project presented.
<b>Research themes</b>	Innovative diagnostics. Therapeutic treatments. New products for pharmaceutical use. Gene therapy. Cellular therapy. Immunosuppressive therapies. Anticancer therapies.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: rodolfo.quarto@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Coordinator: Prof. Rodolfo Quarto Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558240 - Fax 0105558505 EMAIL: rodolfo.quarto@unige.it  Organizing Secretarial Office: Mr Enrico Zeraschi Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558266 – Fax: 0105558216 Email: enrico.zeraschi@unige.it

**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: REGENERATIVE MEDICINE AND TISSUE ENGINEERING (CODE 6145)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale - DIMES)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant based on funds from MIUR/DIMES, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 2:00 pm in the Didactic Room (Aula Didattica) Tower C (Torre C) – 3rd Floor) – Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Largo R. Benzi, n. 10 – 16132 Genova.
<b>Further information on how to present qualifications/publications</b>	All candidates are requested to present a proposal for a research project (2 A4 pages maximum, character size 12) together with their qualifications/publications. The project, which will be discussed during the interview, will be evaluated by the commission together with the qualifications/publications.
<b>Exam syllabus</b>	The interview will be on the qualifications/publications and research project presented.
<b>Research themes</b>	Cellular therapy. Tissue engineering. Development of biocompatible biomaterials, biodegradable and capable of integrating molecules and cells. Delivery of growth factors, cytokines and other pharmacologically active molecules. Immunology and biology of transplants. Immunotherapy. Gene therapy.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: rodolfo.quarto@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Coordinator: Prof. Rodolfo Quarto Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558240 – Fax: 0105558505 EMAIL: rodolfo.quarto@unige.it  Organizing Secretarial Office: Mr Enrico Zeraschi Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558266 – Fax: 0105558216 Email: enrico.zeraschi@unige.it

**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: TRANSLATIONAL MEDICINE (CODE 6147)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale - DIMES)	
<b>Places:</b> 2 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 2:00 pm in the Didactic Room (Aula Didattica) Tower C (Torre C) – 3rd Floor) – Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Largo R. Benzi, n. 10 – 16132 Genova.
<b>Further information on how to present qualifications/publications</b>	All candidates are requested to present a proposal for a research project (2 A4 pages maximum, character size 12) together with their qualifications/publications. The project, which will be discussed during the interview, will be evaluated by the commission together with the qualifications/publications.
<b>Exam syllabus</b>	The interview will be on the qualifications/publications and research project presented.
<b>Research themes</b>	Multimodal approaches within advanced diagnoses in: i) pathologies linked to ageing changes in the eye; ii) cardiovascular pathologies; iii) chronic degenerative pathologies.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: rodolfo.quarto@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Coordinator: Prof. Rodolfo Quarto Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558240 – Fax: 0105558505 EMAIL: rodolfo.quarto@unige.it  Organizing Secretarial Office: Mr Enrico Zeraschi Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558266 – Fax: 0105558216 Email: enrico.zeraschi@unige.it

**Course in: BIOTECHNOLOGIES IN TRANSLATIONAL MEDICINE****Curriculum: TRANSLATIONAL SURGERY (CODE 6148)**

<b>Coordinator:</b> Quarto Rodolfo	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale - DIMES)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant based on funds from the Department of Integrated Surgical and Diagnostic Sciences (Dipartimento di Scienze chirurgiche e diagnostiche integrate - DISC), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 2:00 pm in the Didactic Room (Aula Didattica) Tower C (Torre C) – 3rd Floor) – Advanced Biotechnologies Centre (Centro di Biotecnologie Avanzate) Largo R. Benzi, n. 10 – 16132 Genova.
<b>Further information on how to present qualifications/publications</b>	All candidates are requested to present a proposal for a research project (2 A4 pages maximum, character size 12) together with their qualifications/publications. The project, which will be discussed during the interview, will be evaluated by the commission together with the qualifications/publications.
<b>Exam syllabus</b>	The interview will be on the qualifications/publications and research project presented.
<b>Research themes</b>	Experimental diagnostic and therapeutic approaches in general, specialist surgery, anaesthesiology and in integrated diagnostic methodologies.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: rodolfo.quarto@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Coordinator: Prof. Rodolfo Quarto Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558240 – Fax: 0105558505 EMAIL: rodolfo.quarto@unige.it  Organizing Secretarial Office: Mr Enrico Zeraschi Dipartimento di Medicina Sperimentale (Department of Experimental Medicine - DIMES) Tel.: 0105558266 – Fax: 0105558216 Email: enrico.zeraschi@unige.it

**Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, ARTS, LANGUAGES. CULTURE AND COMMUNICATION**

**In agreement with the University of Turin**

**Curriculum: ARTS, PERFORMING ARTS AND MULTIMEDIA TECHNOLOGIES (CODE 6151)**

<b>Coordinator:</b> Adorni Giovanni	
Department of modern languages and cultures (Dipartimento di Lingue e culture moderne)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 650,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	6/07/2016 –10:30 am at the Department of Italian, Romance, Ancient, Arts and Performing Arts Studies (Dipartimento di Italianistica, Romanistica, Antichistica, Arti e Spettacolo), Via Balbi 2, 3 <sup>rd</sup> Floor, Room 8 – 16126 Genova
<b>Interview</b>	11/07/2016 –10:00 am presso at the Department of Italian, Romance, Ancient, Arts and Performing Arts Studies (Dipartimento di Italianistica, Romanistica, Antichistica, Arti e Spettacolo), Via Balbi 2, 3 <sup>rd</sup> Floor, Room 8 – 16126 Genova
<b>Exam syllabus</b>	Written test: the titles of the written papers will be chosen by the candidate from a series of three assigned topics, one for each theme listed in the “research themes”. These themes will be extracted from a set of nine titles (three for each thematic typology) prepared by the examining Commission.
<b>Research themes</b>	1. Reflective criticism and applications of information and communication technologies to the arts and performing arts (Design and development of multimedia and online products, Virtual Museums, Web 2.0, databases, lists, creation of research tools, platforms for editions of texts and films; design and development of multimedia and online products at both scientific and popular levels, etc.); 2. Reflective criticism and applications of digital technologies to the arts and/or performing arts (didactic technologies, research methodologies, corpus analysis, online multimedia products); 3. Critical reflection on the impact of ICT on paradigms of use, of experimental didactics and research in specific fields of the humanities.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email addresses: giovanni.adorni@unige.it migma@unige.it luisa.zito@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	Students must show their knowledge of at least one foreign language, besides their mother tongue, chosen from English, French, German and Spanish. Foreign candidates must show their knowledge of Italian.
<b>Further information</b>	Contact person in administration: Mrs: Luisa Zito Email: luisa.zito@unige.it

**Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, ARTS, LANGUAGES. CULTURE AND COMMUNICATION**

**In agreement with the University of Turin**

**Curriculum: LANGUAGES, CULTURES AND DIGITAL TECHNOLOGIES (CODE 6150)**

<b>Coordinator:</b> Adorni Giovanni	
Department of modern languages and cultures (Dipartimento di Lingue e culture moderne)	
<b>Places:</b> 5(°) – <b>Grants:</b> 3 (*).	
(°) 1 place without grant reserved for graduates from foreign Universities	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47.	
(*) 1 grant from MIUR/University of Modena and Reggio funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 650,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	4/07/2016* – 9:30 am at the Library of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne), Piazza S. Sabina, 2 – 16124 Genova
<b>Interview</b>	12/07/2016 – 10:00 am at the Library of Modern Languages and Cultures (Dipartimento di Lingue e culture moderne), Piazza S. Sabina, 2 – 16124 Genova
<b>Exam syllabus</b>	Written test: the titles of the written papers will be chosen by the candidate from a series of three assigned topics, one for each theme listed in the “research themes”. These themes will be extracted from a set of nine titles (three for each thematic typology) prepared by the examining Commission.
<b>Research themes</b>	1. Reflective criticism and applications of information and communication technologies to the humanities (Design and development of multimedia and online products, Web 2.0 Applications, Ontology, the Internet of things, databases, creation of research tools, platforms for editing of texts and films, design and development of multimedia and online products at both scientific and popular levels, etc.); 2. Reflective criticism and applications of digital technologies to languages and cultures (online language teaching; research in the field of linguistics, onomastics and literature; design and development of multimedia and online products, corpus analysis, etc.); 3. Critical reflection on the impact of ICT on paradigms of use, of experimental didactics and research in specific fields of the humanities.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email addresses: giovanni.adorni@unige.it elisa.bricco@unige.it luisa.zito@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	Students must show their knowledge of at least one foreign language, besides their mother tongue, chosen from English, French, German and Spanish. Foreign candidates must show their knowledge of Italian.
<b>Further information</b>	Contact person in administration: Mrs Luisa Zito Email: luisa.zito@unige.it

\* date changed as a result of communication by the coordinator

**Course in: DIGITAL HUMANITIES. DIGITAL TECHNOLOGIES, ARTS, LANGUAGES. CULTURE AND COMMUNICATION**

**In agreement with the University of Turin**

**Curriculum: FOREIGN LANGUAGES AND LITERATURES, LINGUISTICS AND ONOMASTICS (CODE 6152)**

<b>Coordinator:</b> Adorni Giovanni	
Department of modern languages and cultures (Dipartimento di Lingue e culture moderne)	
<b>Places:</b> 4 – <b>Grants:</b> 3 (*).	
(*) 3 grants from the University of Turin, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47 At the end of the Doctoral Course a dual qualification will be awarded by the University of Genova and the University of Turin.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 650,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	5/07/2016 – 10:00 am in Room 4 Palazzina Gorresio Via Giulia di Barolo 3a - 10124 Turin
<b>Interview</b>	7/07/2016* – 10:00 am at the Department of Foreign Languages and Literatures and Modern Cultures (Dipartimento di Lingue e letterature straniere e culture moderne), second floor, Via Verdi 10 – 10124 Torino.
<b>Exam syllabus</b>	Written test: the titles of the written papers will be chosen by the candidate from a series of three assigned topics, one for each theme listed in the “research themes”. These themes will be extracted from a set of nine titles (three for each thematic typology) prepared by the examining Commission.
<b>Research themes</b>	1. Reflective criticism and applications of digital technologies to languages and cultures (grammar and lexical didactics of foreign languages; design and development of multimedia and online products, corpus analysis, etc.); 2. Critical reflection on the impact of ICT on paradigms of use, of experimental didactics and research in specific fields of the humanities, with special reference to the field of translation; 3. Digital Technologies for theoretical and applied linguistics and their impact on paradigms of use, of experimental didactics and research in linguistics. Exemplification, discussion, argumentation.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email addresses: giovanni.adorni@unige.it carla.marello@unito.it luisa.zito@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	Students must show their knowledge of at least one foreign language, besides their mother tongue, chosen from English, French, German and Spanish. Foreign candidates must show their knowledge of Italian.
<b>Further information</b>	Contact person in administration: Mrs Luisa Zito Email: luisa.zito@unige.it

\* date changed as a result of communication by the coordinator



<b>Coordinator:</b> Ivaldi Paola	
Department of Law Studies (Dipartimento di Giurisprudenza)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 555,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	11/07/2016 – 12:00 noon Via Balbi 22/7b (3 <sup>rd</sup> floor), in the rooms of the former Section of International Law (ex Sezione di diritto internazionale) – 16126 Genova
<b>Further information on how to present qualifications/publications</b>	By qualifications/publications reference is made to the contents of the application and the curriculum vitae et studiorum, the research project, other qualifications/publications. The application and the attached documents can be in Italian or English, French or Spanish.
<b>Exam syllabus</b>	The interview will consist in (i) a detailed evaluation of competences in relation to the fundamental thematic concerns, the candidate may choose, one of the following areas: civil law; corporate law; international law and of the European Union, with particular focus on the research themes indicated below, and (ii) in the discussion of the research project presented.
<b>Research themes</b>	Within the doctoral course in civil, corporate and international law, three research themes are taken into account, which in essence correspond to the disciplinary “areas” (and corresponding “competences”) that are inherent to them. These themes moreover are part of a unitary framework, characterised by the sharing of the same sources, by a multilevel protection system and by the multidisciplinary of the approach. The first research theme concerns the evolution of the reference frame of contemporary private law, moving from the new order of its sources. With this outlook, the evolutionary lines of the system will be analysed with special reference to two classical themes of civil law, i.e. the contract and civil liability. The second research theme concerns labour law and some profiles of corporate governance, in particular in quoted companies, and is characterised by an interdisciplinary methodological approach. The subjects dealt with will, as a matter of fact, be studied from both a juridical and economic point of view but ample room will be left to deal with the main European systems and the American legal system. The third research theme deals with some of the most significant recent developments in International (both public and private) and Community law, analysed from the point of view of the widening of rights guaranteed to individuals and their “effective” jurisdictional protection (at an international, community and domestic level).
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to Prof. Paola Ivaldi, at the following email: <a href="mailto:paola.ivaldi@unige.it">paola.ivaldi@unige.it</a> The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Coordinator of the Course: Prof. Paola Ivaldi Email: <a href="mailto:paola.ivaldi@unige.it">paola.ivaldi@unige.it</a> Contact person in administration: Dott.ssa M. Stefania Lavezzo Email: <a href="mailto:55563@unige.it">55563@unige.it</a>

<b>Coordinator:</b> Ivaldi Paola	
Department of Law Studies (Dipartimento di Giurisprudenza)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 555,00 €
<b>Modalità</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	04/07/2016 – 9:00 am at the Department of Law Studies (Dipartimento di Giurisprudenza), Criminal Section (Sezione Penalistica), via Balbi 30/10, 16126 Genova
<b>Interview</b>	07/07/2016 – 9:00 am at the Department of Law Studies (Dipartimento di Giurisprudenza), Criminal Section (Sezione Penalistica), via Balbi 30/10, 16126 Genova
<b>Exam syllabus</b>	a) Issues concerning the general part and the special part of Criminal Law; b) Issues concerning criminal trials, also in reference to the European, International and comparative perspective; c) Themes linked to penitentiary legislation in force with special reference to the latest reforms as well.
<b>Research themes</b>	<p>Criminal Law: the reform of the criminal code and the harmonization of European criminal laws, with a view to the unification and strengthening of international instruments of cooperation; the reform of the sanctioning systems; forms of transnational criminality; the criminal defence of financial markets; corporate offences; analysis of the themes concerning complicity of people; the regulation of non-EU immigration and the crimes linked to clandestine immigration; the regulation of the circulation of citizens who belong to the European Union; crimes against the public administration.</p> <p>Penitentiary law: Analysis of the numerous innovations recently added to the legal order and of those in progress: in particular, of the legislative novelties aimed at dealing with prison overcrowding (law n. 9 of 17/02/2012 the so-called '<i>empty jails-two</i>' law - '<i>svuotacarceri-bis</i>'; the Decree Law No. 78 1/7/2013, taking into account the possible changes accepted in the law of enactment).</p> <p>Criminal procedure: Themes which are the subject-matter of recent legislative interventions, in parallel with the evolution of jurisprudential orientations. In particular the following are pointed out: the revision of the "internal" penal judgement following the investigation of the European Court of Human Rights of the violation of the ECHR, in the light of the constitutional judgement n. 113 of 7 April 2011; law projects for the reform of the system of penal impugment and those in the field of wire-tapping, as well as that aimed at introducing the adjournment of the trial with probation (<i>messa alla prova</i>), up to now present only in the juvenile system. Methodologically, systematic reconstructive lines are set against the fragmentary nature of the reforms.</p> <p>Comparative Procedural Criminal Law mainly focussing on the American trial system.</p> <p>International Procedural Criminal Law: Evolution of international criminal justice from the end of the First World War up to the present. The International Criminal Court and the legislation for internal adaptation. International cooperation tendencies at European level. Transitional justice.</p>
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign languages</b>	English, French, German
<b>Further information</b>	<p>Scientific director: Prof. Paolo Pisa Email: <a href="mailto:paolo.pisa@unige.it">paolo.pisa@unige.it</a> Contact person in administration: Dott.ssa M. Stefania Lavezzo Email: <a href="mailto:55563@unige.it">55563@unige.it</a></p>

**Course in: LAW STUDIES****Curriculum: PHILOSOPHY OF LAW AND HISTORY OF LEGAL CULTURE (CODE 6155)**

<b>Coordinator:</b> Ivaldi Paola	
Department of Law Studies (Dipartimento di Giurisprudenza)	
<b>Places:</b> 5 (°) – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(°) di cui 1 posto riservato a borsisti di Stati esteri.	
(*) 1 grant from MIUR/ Dipartimento di Giurisprudenza (Department of Law) funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 555,00 €
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	The following must be produced in the curriculum and attached documentation: a) qualification; b) any post-graduate qualifications; c) any publications; d) any research experiences and research activities and further education/training. Candidates must present a research project (of about 10,000 strokes, spaces included, I candidati devono presentare un progetto di ricerca (per complessivi 10000 caratteri spazi inclusi, in order to be accepted), indicating the subject, the objectives, the activity phases of the research, as well as the references deemed essential.
<b>Research themes</b>	Philosophy of law - Legal reasoning - Theories of legal interpretation - Theories of legal sources - General theory of law and state - Constitutional interpretation - Logic and legal reasoning - Legal Enlightenment and codification ideologies - Philosophies of punishment - Epistemology and theories of legal science - Natural law and legal positivism - Feminist theories of law - Theories of legal norms and legal systems - Theory of legal language - Equality, poverty, welfare state, regulation and deregulation - History and theory of rights - Law, constitutions, constitutionalism - History and theory of legal dogmatics - Legal bioethics.
<b>Information on references</b>	At least one and not more than three reference letters by qualified scholars will be evaluated. The letters must be sent to: pierluigi.chiassoni@giuri.unige.it
<b>Further information</b>	Coordinator of the curriculum: Prof. Pierluigi Chiassoni Email: pierluigi.chiassoni@unige.it Contact person in administration: Dr.ssa Stefania Vircillo Email: stevirci@giuri.unige.it

**Course in: LAW STUDIES****Curriculum: DOMESTIC CONSTITUTIONAL LAW, COMPARATIVE AND EUROPEAN (CODE 6156)**

<b>Coordinator:</b> Ivaldi Paola	
Department of Law Studies (Dipartimento di Giurisprudenza)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 555,00 €
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	08/07/2016 – 9:00 am, Via Balbi 22 3 <sup>rd</sup> floor, “Sala Seminari” – 16126 Genova
<b>Further information on how to present qualifications/publications</b>	The following must be produced in the curriculum and attached documentation: a) degree mark and the marks of each exam relevant to the degree course; b) the dissertation title of the specialist or “magistrale” degree (3+2 or 5 year degree course); c) any post graduate study qualifications coherent with the research themes of the doctoral course; d) any research experiences and training that are coherent with the research themes of the doctoral course; e) the level of language knowledge. Candidates’ whose qualifications/publications and research project are not coherent with the research themes of the doctoral course will not be admitted to the interview.
<b>Exam syllabus</b>	The interview aims at evaluating the candidates’ aptitude for research and will be based on the candidates’ present competences and on the basis of a research project. The latter must be presented with the candidates’ application, clearly indicating: the scientific starting point, a basic bibliography, the organization of the thematic profiles they intend to examine.
<b>Research themes</b>	a) Evolution of the rule of law and system of sources b) Strengthening process of the democratic State in recent democracies c) National and supranational protection system of fundamental rights d) Safeguarding and promotion of cultural diversities, the influence of multiculturalism on codification and on legal reasoning e) Evolution of federalism and regionalism f) Constitutionalization process of the European Union and constitutional principles of supranational and international organizations g) Characteristics of transnational constitutionalism
<b>Information on references</b>	Reference letters can be sent to the address of the coordinator of the curriculum prof. Pasquale Costanzo Email: pasquale.costanzo@unige.it
<b>Foreign languages</b>	Knowledge of one of the following languages: English, French, German or Spanish.
<b>Further information</b>	Contact person prof. Pasquale Costanzo Email: pasquale.costanzo@unige.it

**Course in: ECONOMICS**  
**(CODE 6157)**

<b>Coordinator:</b> Pittaluga Giovanni Battista	
Dipartimento di Economia	
<b>Places:</b> 6 – <b>Grants:</b> 5 (*).	
(*) 5 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 650,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	11/07/2016 – 10.00 am, in Aula (Room) "Estremo Ponente" (former Cenpro), first floor, Department of Economics (Dipartimento di Economia – DIEC), Via Vivaldi 5 – 16126 Genova
<b>Interview</b>	12/07/2016 – 10.00 am, in Aula (Room) "Estremo Ponente" (former Cenpro), first floor, Department of Economics (Dipartimento di Economia – DIEC), Via Vivaldi 5 – 16126 Genova
<b>Further information on how to present qualifications/publications</b>	Candidates may present, together with their applications, any publications in scientific journals on research themes which are relevant to the doctoral course.
<b>Exam syllabus</b>	WRITTEN TEST: one question chosen by each candidate from a set of 3 questions on research themes of the Doctoral Course. ORAL TEST: Interview on the research themes proposed by the candidate. The Commission may also ask the candidate to comment and discuss the contents of his/her written test.
<b>Research themes</b>	Complexity economics; interpretative models of financial instability and of the economic cycle for economic policy decisions; fiscal, budget and regulation policies concerning different territorial levels; analysis of the quality of accounting data and its impact on financial markets; theoretical and econometric models for the analysis of financial markets; regulation policies of "public utilities"; analysis of internationalization processes of enterprises; market system and role of competition in network industries; analysis of market regulation instruments; economic role of transport facilities; methods for the evaluation of efficiency and equity in healthcare; coordination issues among the different welfare systems in countries of the European Union.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Coordinator of the Doctoral Course in Economics DIEC, Università di Genova, Via Vivaldi 5 - 16126 Genova Email: dottoratodiec@economia.unige.it
<b>Foreign languages</b>	English
<b>Further information</b>	Nel corso del colloquio orale, sarà chiesto ai candidati di dare prova di conoscenza della lingua inglese leggendo un brano di economia in inglese.

<b>Coordinator:</b> Ridolfi Giovanni	
Department of Physics (Dipartimento di Fisica - DIFI)	
<b>Places:</b> 14 – <b>Grants:</b> 12 (*).	
(*) of which 5 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 2 grants from the Department of Physics (Dipartimento di Fisica - DIFI), the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) di cui 5 grants from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	11/07/2016 – 09:00 am at the Department of Physics (Dipartimento di Fisica - DIFI), Via Dodecaneso 33, 16146 Genova. It is possible to use a computer connection; those who wish to do so must contact the coordinator at the Email address <a href="mailto:giovanni.ridolfi@ge.infn.it">giovanni.ridolfi@ge.infn.it</a> AT LEAST 7 days before the initial date of the interviews. The interviews may continue beyond the date indicated: the commission will provide a timetable.
<b>Further information on how to present qualifications/publications</b>	Candidates must present a short (maximum 1 page) research project or a description of their research interests. The project will not be included in the evaluation.
<b>Exam syllabus</b>	The interview will have the dual function of evaluating the candidates' basic level of preparation and their aptitude for research also in relation to the activities carried out in the Department.
<b>Research themes</b>	Theoretical and experimental physics of fundamental interactions; string and field theory; theoretical and experimental theory of the nucleus and hadrons; physics of star particles; research for gravitational waves; physics applied to the environment, to the cultural heritage, to medicine; theoretical and experimental physics of condensed matter; surface physics; physics and applications of superconductive materials; nanosystems physics; science of materials and nanotechnologies applied to industry and medicine; biophysics; history of physics. The 2 grants offered by the Department will concern the following research themes: <ul style="list-style-type: none"> <li>• Computational study of the interaction between metal nanoparticles and biological membranes - (dott. G. Rossi) - grant funded by the BioMNP, ERC-2015-StG 677513 project</li> <li>• Micro nano fluidics for biomedicine (Prof. U. Valbusa) – grant co-funded by the NANOMAX project</li> </ul> The 5 grants funded by IIT will concern the following research themes: <ul style="list-style-type: none"> <li>• Physics meets neuroscience: memristive devices for neuromorphic computation; Manipulating light at the nanoscales: advanced 3d nanostructuring for next generation sources, sensors and electro-optical devices; Biosensing with plasmonic metamaterials (Prof. De Angelis).</li> <li>• Structural Evolution of Nanocomposite Functional Materials (Prof. Athanassiou).</li> <li>• Label-free non-linear optical nanoscopy; High throughput fluorescence microscopy for liquid biopsy; Phase/polarization optical microscopy for super resolution imaging of macromolecular architectures; Molecular mechanisms in genome biophysics by novel optical nanoscopy; Quantitative 3D single molecule bioimaging; Smartphone microfluidics for portable biosensors. Real-time volumetric microscopy of living systems; Super-resolved photo acoustic microscopy; Advanced super resolved fluorescence microscopy (Prof. A. Diaspro).</li> </ul>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject, and at least one of them must be a researcher in the Department of Physics at the University of Genova or in one of the Institutions that collaborate with the Department (IIT, INFN Section of Genova, SPIN-CNR, IMEN-CNR). The in-house referee will not necessarily have to evaluate the candidate, but may show interest in involving the candidate in his/her research activities. It will be the referees' concern to send the reference letters, within the deadline of the public notice, to both of the following email addresses: <a href="mailto:martinoli@fisica.unige.it">martinoli@fisica.unige.it</a> <a href="mailto:giovanni.ridolfi@ge.infn.it">giovanni.ridolfi@ge.infn.it</a>

	with the subject "PhD XXXII reference letter" The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Candidates can send an e-mail to the following e-mail addresses for information: <a href="mailto:giovanni.ridolfi@ge.infn.it">giovanni.ridolfi@ge.infn.it</a> <a href="mailto:sassetti@fisica.unige.it">sassetti@fisica.unige.it</a> <a href="mailto:marco.pallavicini@ge.infn.it">marco.pallavicini@ge.infn.it</a>

**Course in: CLINICAL AND EXPERIMENTAL IMMUNOLOGY  
(CODE 6159)**

<b>Coordinator:</b> Mingari Maria Cristina	
Excellence Centre for the research and study of molecular communication mechanisms between cells: from basic research to the clinic (Centro di Eccellenza per lo studio dei meccanismi molecolari di comunicazione tra cellule: dalla ricerca di base alla clinica - CEBR)	
<b>Places:</b> 5 – <b>Grants:</b> 4 (*).	
(*) 4 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Interview</b>	06/07/2016 – 9.30 am in the room on the first floor of the Excellence Centre for the study of molecular communication mechanisms between cells: from basic research to the clinic (Centro di Eccellenza per lo studio dei meccanismi molecolari di comunicazione tra cellule: dalla ricerca di base alla clinica - CEBR), Viale Benedetto XV, 5 - 16132 Genova
<b>Exam syllabus</b>	The oral test and interview will concern the candidates' previous research experience and their knowledge of themes such as basic and Clinical Immunology among which: adaptive and innate Immune response. Biology of Natural Killer cells. Biology of B Lymphocytes. Antibodies. Biology of T Lymphocytes and of their subpopulations (T helper and T Cytotoxic, Th17, regulatory T and suppressor T cells). APC cells, myeloid and plasmacytoid dendritic cells. The presentation of the Antigen. Outline of Immunopathology with particular attention on Autoimmunity, Hypersensitivity and Allergies. Primary and acquired Immunodeficiencies (AIDS).
<b>Research themes</b>	Innate and Adaptive immunity with special reference to the roles of NK cells in anti-tumour immunity. Features of Immunology and immunotherapy of tumours. Treg and Th17 Cells and their role in pathology (Self-immunity and tumours) Allergies and vaccines.
<b>Information on references</b>	Send reference letters to the Coordinator of the Doctoral Course Prof. M.C. Mingari Email: mariacristina.mingari@unige.it and to the secretary of the Doctoral Course, Mrs Daniela Guelfo email: daniela.guelfo@unige.it
<b>Foreign languages</b>	English. Reading, comprehension and translation of part of a scientific paper, chosen by the Commission, on a subject concerning the themes of the Doctoral Course.
<b>Further information</b>	On the basis of a specific request addressed to the Coordinator and secretary of the Doctoral Course, foreign candidates may sit their exam and do their interview via Skype.



**Curriculum: COMPUTER SCIENCE (CODE 6160)**

<b>Coordinator:</b> Delzanno Giorgio	
Section of Mathematics, Physics and Natural Sciences of the Department of Computer Science, Bionengineering, Robotics and Systems Engineering (Sezione di Scienze matematiche, fisiche e naturali del Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi - DIBRIS)	
<b>Places:</b> 16 – <b>Grants:</b> 12 (*).	
(*) 5 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant from MIUR/DIBRIS funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 2 grants from DIBRIS funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 4 grants funded by the BK foundation, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	04/7/2016-- 9.00 am at DIBRIS – Premises of Valletta Puggia, Via Dodecaneso 35, Genova An interview over the phone and via Skype is also possible. The date will probably be scheduled on the following days should there be a high number of candidates.
<b>Further information on how to present qualifications/publications</b>	Suggestions on how to organize research projects are available on the Doctoral course Web page at the following URL address: <a href="http://phd.dibris.unige.it/csse/">http://phd.dibris.unige.it/csse/</a>
<b>Exam syllabus</b>	The comparative assessment procedure consists in the evaluation of qualifications/publications and in an interview on theoretical and/or practical contents concerning the research themes indicated below and the on the candidate's research activities of interest.
<b>Research themes</b>	The research lines of the Curriculum in Computer Science concern the following areas: automated learning, embedded systems, databases and information technology systems, image processing, graphics and geometric modelling, artificial intelligence, software engineering, man-machine interaction, programming languages, theoretical computer science, parallel and distributed systems, safety, computational vision.  More specific research themes are described on the Web page of the Doctoral Course: <a href="http://phd.dibris.unige.it/csse/">http://phd.dibris.unige.it/csse/</a>  Research projects which do not refer to the specific themes listed above will be taken into consideration as long as they are within the research lines of the Doctoral course stated above.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: <a href="mailto:phd.compsci@dibris.unige.it">phd.compsci@dibris.unige.it</a>  The name, status and service place of the referees chosen by the candidates must be stated in their applications.  Uno schema di lettera di referenza e' disponibile nella pagina Web del Dottorato al seguente URL: <a href="http://phd.dibris.unige.it/csse/">http://phd.dibris.unige.it/csse/</a>
<b>Foreign languages</b>	English
<b>Further information</b>	Coordinator: Prof. Giorgio Delzanno DIBRIS - Universita' di Genova Via Dodecaneso 35 - 16146 Genova Telephone: +39 (010) 3536603 Email: <a href="mailto:giorgio.delzanno@unige.it">giorgio.delzanno@unige.it</a>

**Course in: COMPUTER SCIENCE AND SYSTEMS ENGINEERING**  
**In agreement with the Bruno Kessler Foundation (Fondazione Bruno Kessler)**

**Curriculum: SYSTEMS ENGINEERING (CODE 6161)**

<b>Coordinator:</b> Delzanno Giorgio	
Section of Mathematics, Physics and Natural Sciences of the Department of Computer Science, Bionengineering, Robotics and Systems Engineering (Sezione di Scienze matematiche, fisiche e naturali del Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi - DIBRIS)	
<b>Places:</b> 4 – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant funded by Aizoon s.r.l., the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	04/07/2016 – 9.00 am DIBRIS premises, Via Opera Pia 13, 16145 Genova An interview over the phone and via Skype is also possible. The date will probably be scheduled on the following days should there be a high number of candidates.
<b>Further information on how to present qualifications/publications</b>	Suggestions on how to organize research projects are available on the Doctoral course Web page at the following URL address: <a href="http://phd.dibris.unige.it/csse/">http://phd.dibris.unige.it/csse/</a>
<b>Exam syllabus</b>	The comparative assessment procedure consists in the evaluation of qualifications/publications and in an interview on theoretical and/or practical contents concerning the research themes indicated below and the on the candidate's research activities of interest.
<b>Research themes</b>	The research lines of the Syllabus in Systems Engineering concern the main sectors of Systems Engineering, i.e.: modelling of dynamic systems, patterns and algorithms for the optimization of performances, design and development of regulating methods and patterns, planning at different decisional levels, monitoring and supervision.  More detailed information on specific thematics are described on the Web page:  <a href="http://phd.dibris.unige.it/csse/">http://phd.dibris.unige.it/csse/</a>  Research projects that do not refer to the specific themes mentioned on the abovementioned Web page are accepted as long as they are included in the research lines of the Doctoral course specified above.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: <a href="mailto:phd.compsci@dibris.unige.it">phd.compsci@dibris.unige.it</a>  The name, status and service place of the referees chosen by the candidates must be stated in their applications.  A model/template of a reference letter is available on the Doctoral Web page at the following URL address: <a href="http://phd.dibris.unige.it/csse/">http://phd.dibris.unige.it/csse/</a>
<b>Foreign languages</b>	English
<b>Further information</b>	Coordinator: Prof. Giorgio Delzanno DIBRIS - Università di Genova Via Dodecaneso 35 - 16146 Genova Telefono: +39 (010) 3536603 Email: <a href="mailto:giorgio.delzanno@unige.it">giorgio.delzanno@unige.it</a>

<b>Coordinator:</b> Vittori Giovanna	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale - DICCA)	
<b>Places:</b> 4 (°)– <b>Grants:</b> 3 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(°) 1 place reserved for grant holders in specific international mobility programmes	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	11/07/2016 – 9:30 am in room A11 of DICCA, via Montallegro 1, 16145 Genova. Should there be a high number of candidates, the interviews will continue on the following day.
<b>Exam syllabus</b>	The interview will be a detailed scientific discussion of the candidate's research project, his/her Curriculum and his/her qualifications/publications, the aim is also to ascertain the candidate has adequate knowledge to profitably deal with the studies in the chosen curriculum. On request, the interview may also be done using computers by contacting Prof. Giovanna Vittori email vittori@dicca.unige.it at least 15 days before the evaluation. Candidates must have a reliable internet connection to allow the carrying out of the test.
<b>Research themes</b>	The themes dealt with in the three curriculum "Fluid Dynamics and Environmental Engineering" of the course are described in detail on the course web page: <a href="http://dottorato.dicca.unige.it/ita/fluamb/">http://dottorato.dicca.unige.it/ita/fluamb/</a>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject. If the referee is an expert in the subject, his/her Curriculum Vitae and a list of publications are also required. It will be the referees' concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: vittori@dicca.unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications. Reference letters that are not presented as requested will not be taken into consideration.
<b>Further information on how to present qualifications/publications</b>	The curriculum must contain a document stating the courses followed and marks obtained during the entire university career of the candidate.  Undergraduate candidates at the deadline of the public notice can submit further documentation they deem more appropriate in order to document their university career.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Giovanna Vittori Email: vittori@dicca.unige.it

**Course in: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING**

**Curriculum: CHEMICAL ENGINEERING, MATERIALS AND PROCESSES (CODE 6163)**

<b>Coordinator:</b> Vittori Giovanna	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale - DICCA)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant from MIUR/DICCA funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	11/07/2016 – 9:30 am in room A11 of DICCA, via Montallegro 1, 16145 Genova. Should there be a high number of candidates, the interviews will continue on the following day.
<b>Exam syllabus</b>	The interview will be a detailed scientific discussion of the candidate's research project, his/her Curriculum and his/her qualifications/publications, the aim is also to ascertain the candidate has adequate knowledge to profitably deal with the studies in the chosen curriculum. On request, the interview may also be done using computers by contacting Prof. Attilio Converti, Email: <a href="mailto:converti@unige.it">converti@unige.it</a> at least 15 days before the evaluation. Candidates must have a reliable internet connection to allow the carrying out of the test.
<b>Research themes</b>	The themes dealt with in the three curriculum "Chemical Engineering, Materials and Processes" of the course are described in detail on the course web page: <a href="http://dottorato.dicca.unige.it/ita/chmatpr/">http://dottorato.dicca.unige.it/ita/chmatpr/</a>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject. If the referee is an expert in the subject, his/her Curriculum Vitae and a list of publications are also required. It will be the referees' concern to send reference letters, within the deadline of the public notice, to Prof. Attilio Converti, at the following email address: <a href="mailto:converti@unige.it">converti@unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications. Reference letters that are not presented as requested will not be taken into consideration.
<b>Further information on how to present qualifications/publications</b>	The curriculum must contain a document stating the courses followed and marks obtained during the entire university career of the candidate.  Undergraduate candidates at the deadline of the public notice can submit further documentation they deem more appropriate in order to document their university career.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Attilio Converti Email: <a href="mailto:converti@unige.it">converti@unige.it</a>

**Course in: CIVIL, CHEMICAL AND ENVIRONMENTAL ENGINEERING****Curriculum: STRUCTURES, MATERIALS AND GEOTECHNICS (CODE 6164)**

<b>Coordinator:</b> Vittori Giovanna	
Department of Civil, Chemical and Environmental Engineering (Dipartimento di Ingegneria civile, chimica e ambientale - DICCA)	
<b>Places:</b> 4(°) – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) di cui 1 borsa su fondi DICCA, l'importo annuale della borsa, al lordo degli oneri previdenziali a carico del percipiente, è di € 13.638,47	
(°) di cui 1 posto riservato a borsisti in specifici programmi di mobilità internazionale	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	11/07/2016 – ore 9:30 presso aula A11 presso il DICCA, via Montallegro 1, 16145 Genova. In caso di elevato numero di candidati, i colloqui continueranno il giorno successivo.
<b>Exam syllabus</b>	The interview will be a detailed scientific discussion of the candidate's research project, his/her Curriculum and his/her qualifications/publications, the aim is also to ascertain the candidate has adequate knowledge to profitably deal with the studies in the chosen curriculum. On request, the interview may also be done using computers by contacting Prof. Roberta Massabò (Roberta.Massabo@unige.it) at least 15 days before the evaluation. Candidates must have a reliable internet connection to allow the carrying out of the test.
<b>Research themes</b>	The themes dealt with in the three curriculum "Structures, Materials and Geotechnics" of the course are described in detail on the course web page: <a href="http://dottorato.dicca.unige.it/ita/stmatgeo/">http://dottorato.dicca.unige.it/ita/stmatgeo/</a>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject. If the referee is an expert in the subject, his/her Curriculum Vitae and a list of publications are also required. It will be the referees' concern to send reference letters, within the deadline of the public notice, to Prof. Roberta Massabò, at the following email address: Roberta.Massabo@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications. Reference letters that are not presented as requested will not be taken into consideration.
<b>Further information on how to present qualifications/publications</b>	The curriculum must contain a document stating the courses followed and marks obtained during the entire university career of the candidate.  Undergraduate candidates at the deadline of the public notice can submit further documentation they deem more appropriate in order to document their university career.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Roberta Massabò Email: Roberta.Massabo@unige.it

**Course in: MACHINE AND SYSTEMS ENGINEERING FOR ENERGY, THE ENVIRONMENT AND TRANSPORT****Curriculum: TRANSPORT AND LOGISTICS SYSTEMS ENGINEERING (CODE 6167)**

<b>Coordinator:</b> Cianci Roberto	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti - DIME)	
<b>Places:</b> 2 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 400,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Research themes</b>	The “Transport and logistics systems engineering” curriculum presents research themes that deal with: <ul style="list-style-type: none"><li>• the mobility of people on the various territorial scales: estimate and analysis of the demand for transport; analysis, simulation and optimization of the transport offer, of the demand/offer interaction, of the economic, territorial, energetic and environmental impact;</li><li>• the planning, management and operation of intermodal transport networks of goods: mathematical models, analysis and optimization of the performance of the road, railway, air and sea transport infrastructures and services, as well as their intermodal interactions;</li><li>• evaluation of the effects of interventions in relation to mobility systems projects even integrated, with special reference to the energetic and environmental impact on the territory and therefore to their general sustainability;</li><li>• analysis and evaluation of the externalities of transport and logistics systems, with special reference to sustainability, safety and security features and issues, typical of each stage of transport and its interactions with the surrounding environment, even in relation to the different modes of transport and their integration.</li></ul>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Angela Di Febbraro, DIME, Via Montallegro 1 Email: Angela.DiFebbraro@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Further information</b>	For further information it is possible to contact the coordinator Prof. Roberto Cianci at the following email address: roberto.cianci@unige.it

**Course in: MACHINE AND SYSTEMS ENGINEERING FOR ENERGY, THE ENVIRONMENT AND TRANSPORT**

**Curriculum: MACHINE AND SYSTEMS ENGINEERING FOR ENERGY, THE ENVIRONMENT AND PROPULSION (CODE 6165)**

<b>Coordinator:</b> Cianci Roberto	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti - DIME)	
<b>Places:</b> 6 – <b>Grants:</b> 5 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant from MIUR/DIME funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant from DIME funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 400,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Research themes</b>	<p>The research themes of the Curriculum concern the production of energy and aircraft propulsion. They are experimental, numeric and theoretical and concern:</p> <ol style="list-style-type: none"> <li>1) Turbo machines and combustors for the generation of energy and aircraft propulsion: <ul style="list-style-type: none"> <li>• flow analysis in plant components and turbo machines;</li> <li>• design of tractor and operating turbo machines;</li> <li>• unsteady aerodynamics of burners for turbo gas plants;</li> <li>• mechanisms generating aerodynamic noise in turbo machines</li> <li>• study of combustion processes.</li> </ul> </li> <li>2) Internal combustion engines for automobile traction and marine propulsion: <ul style="list-style-type: none"> <li>• analysis of road vehicle emissions and models of the diffusion of pollutants in the environment;</li> <li>• study of the functional characteristics of the components of suction and exhaust systems of engines for self traction;</li> <li>• advanced air compressing systems for automobile applications;</li> <li>• optimization of performance, consumption and polluting emissions of engines for road traction.</li> </ul> </li> <li>3) Systems for the generation of energy based on traditional primary and renewable resources: <ul style="list-style-type: none"> <li>• analysis of the static and dynamic behaviour of energy plants;</li> <li>• realisation of simulators in simulated and real time;</li> <li>• analysis and optimization of complex and innovative plants for the production of energy.</li> </ul> </li> </ol> <p>The themes in question present important links with transport systems, with model features linked to mathematical Physics and Numerics, with the Controls and the handling of signals.</p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:  Prof. Andrea Cattanei, DIME, Via Montallegro 1  Email: cattanei@unige.it</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Further information</b>	For further information it is possible to contact the coordinator Prof. Roberto Cianci at the following email address: roberto.cianci@unige.it

**Course in: MACHINE AND SYSTEMS ENGINEERING FOR ENERGY, THE ENVIRONMENT AND TRANSPORT****Curriculum: MATHEMATICAL ENGINEERING AND SIMULATION (CODE 6166)**

<b>Coordinator:</b> Cianci Roberto	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti - DIME)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 400,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Research themes</b>	<p>The following research themes are comprised in the curriculum:</p> <ol style="list-style-type: none"><li>1. Continuous and discrete mathematical models of thermo fluid dynamics of energy systems; fluid mechanics and the relative equations. Problems concerning the acoustics and propagation of waves in fluid and solid mediums by means of “analogous instruments”. Metamaterials. The Dirac field in interaction.</li><li>2. Methods for the development and analysis of discrete and continuous models for the simulation of systems. Instruments and problems of numerical analysis; development of simulators and federations of simulators for complex systems. Definition of objectives, formalization, implementation solutions, integration, controls, approval, tests, accreditation and execution of real-time, fast-time and slow time models.</li><li>3. Models with finite and infinite degrees of liberty; field theory. Geometric techniques and analysis. Diffusion problems and resolving techniques. Environmental issues concerning public safety in the fight against terrorism.</li><li>4. Solid mechanics for girders/beams and elasto-plastic plates. Numerical control techniques.</li><li>5. Development of aggregate and operative programming systems, implemented by means of instruments of finite capacity, with simulation techniques for discrete events. Excellent estimate of the state of linear and non-linear systems.</li><li>6. Development and application of artificial intelligence techniques for the management of the value chain. Supporting geometric methods for the development of simulators in virtual environments. Simulation applied to the logistics and transport sector for the management of the supply chain for decision support.</li><li>7. Simulation applied to the military sector, tactic and strategic.</li></ol>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Roberto Cianci, DIME, Piazzale JF Kennedy, Pad. D (roberto.cianci@unige.it) The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Further information</b>	<p>For further information it is possible to contact the coordinator Prof. Roberto Cianci at the following email address: roberto.cianci@unige.it</p>



<b>Coordinator:</b> Tagliafico Luca Antonio	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti - DIME)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 10 a.m., at the DIME, MEC section, Via All'Opera Pia 15/a - 16145 Genova On request, the interview may also be done using computers (video conference via SKYPE) by contacting the Coordinator of the Doctoral Course Prof. Luca A. Tagliafico (tgl@dittec.unige.it in advance and specifying the candidate's name, address and the curriculum he/she is referring to.
<b>Further information on how to present qualifications/publications</b>	Qualifications/publications must contain a detailed explanation and the planning of the development of a possible research project concerning one of the syllabuses of the field Economy and Management (EM.1, EM.2), in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on specific activities described in the actual project. The research project (min. 8,000 max. 16,000 characters including spaces and punctuation) must comprise: - the research title; - field state of the art and relative bibliographic references; - objectives and expected results. In addition to the documentation that must be submitted by means of the online procedure, the following information, if present, will also be taken into consideration: - the title of the thesis dissertation of the Specialist/II level Degree/Master of Science/Master of Engineering together with a brief description (max. 4,000 words including spaces and punctuation); - a list of the exams done with the number of credits, marks and syllabuses (max 500 characters including spaces and punctuation for each course); - any other qualifications relevant to the application and scientific activity carried out; - a letter that states aptitude motivations and the advancement expectations of the candidate which prompted the application.
<b>Exam syllabus</b>	The interview will be a discussion of the research project and qualifications/publications presented.
<b>Research themes</b>	The Economy and Management syllabus (EM) aims at developing quantitative and computational approaches in finance and economics. Two main research themes with the corresponding syllabuses have been singled out for this EM syllabus: 1. EM.1 Specialization Agent-based Computational Economics. This syllabus focuses mainly on the use of agent technologies and methodologies for the study of economics and finance, a bottom-up approach that allows for the study of regularities emerging in the economy as a result of the behaviour and interactions of economic agents in artificial economic systems and which adapts better, with respect to traditional dynamic stochastic models, to the development of a realistic representation of the economy. The EM.1 specialization develops skills that can be applied directly to the financial industry, to government and international organizations and to the academic world. 2. EM.2 Specialization Financial Engineering. This syllabus focuses on computational econometrics, on data mining, on automated learning and on dynamic stochastic models of financial and economic data, the objective of which is to study the pricing of derivatives and financial assets, as well as risk management, in a non-Gaussian environment and in the presence of extreme events. Furthermore, the syllabus includes innovative themes relative to the management of shares portfolios, such as pair trading and statistical arbitrage, as well as the emerging theme of high frequency automated trading. The EM.2 specialization develops skills that naturally give access to work opportunities both in the financial and academic fields.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Luca A. Tagliafico (Email: tgl@dittec.unige.it)

	<p>and to the contact person of the EM Curriculum, Prof. Silvano Cincotti (Email:Silvano.Cincotti@unige.it)</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Coordinator of the IMEG (MEME) doctoral course  Prof. Luca A. Tagliafico  DIME/TEC  Via all'Opera Pia 15/A  16145 GENOVA  Tel.: +39 010-3532880  Email: tgl@dittec.unige.it</p> <p>Contact person for the EM curriculum Prof. Silvano Cincotti  DIME/Sezione MIG  Via all'Opera Pia 15  16145 GENOVA  Tel.: +39 010-3532080  Email: silvano.cincotti@unige.it</p>

<b>Coordinator:</b> Tagliafico Luca Antonio	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti - DIME)	
<b>Places:</b> 2 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 10 a.m., at the DIME, MEC section, Via All'Opera Pia 15/a - 16145 Genova On request, the interview may also be done using computers (video conference via SKYPE) by contacting the Coordinator of the Doctoral Course Prof. Luca A. Tagliafico ( <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a> ) in advance and specifying the candidate's name, address and the curriculum he/she is referring to.
<b>Further information on how to present qualifications/publications</b>	QUALIFICATIONS/PUBLICATIONS MUST CONTAIN A DETAILED EXPLANATION AND THE DEVELOPMENT PLAN OF A POSSIBLE RESEARCH PROJECT, quoting the Technical Physics (TP) syllabus, and the field (TP.1. TP.2 or TP.3) it refers to, in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described in the actual project.
<b>Exam syllabus</b>	The interview will be a discussion of the research project and qualifications/publications presented and on the correlated themes of the TP curriculum.
<b>Research themes</b>	The Technical Physics (TP) syllabus focalizes on research themes typical of the Macrosectors it refers to. The Technical Physics research curriculum in the MEME Doctoral Course resumes the historical course of the Doctoral Courses in Technical Physics (first year of activation 1992). It's objective is to train young researchers capable of developing theoretical experimental research in the thermodynamic, thermofluid dynamic and transmission of heat sectors; of dealing with research in the energy sector, by means of a suitable methodological approach to the thermodynamic issue; of analysing thermal, acoustic and lighting phenomena which concur in defining both the conditions of environmental well-being, and environmental impact and consequent control possibilities. The TP curriculum develops research within the following fields: 1. Physics of buildings and environmental control Components, heating and air-conditioning plants. Physics of buildings and environmental control. Lighting techniques and applied acoustics. The thematics are developed according to the traditional approach of Environmental Technical Physics. 2. Energetics and Applied Thermofluid dynamics Thermodynamic analysis of energy systems. Energy sources, vectors and rational consumption of energy. Environmental impact of energy systems. Single and multiphase thermofluid dynamics. Thermophysical properties of materials. Techniques to increase the efficacy of energy processes and thermofluid dynamic exchange mechanisms. The thematics are developed according to the traditional approach of Industrial Technical Physics. 3. Nuclear Plants The thematics which characterise Nuclear Plants, within the limits of the available sources, are added to the first two fields, for the innovative application of the functioning principles of nuclear fission plants for the production of electricity and hydrogen and the solution to advanced thermohydraulic problems of the core of thermal and fast fission reactors.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a> The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English

<b>Further information</b>	Coordinator of the IMEG (MEME) doctoral course Prof. Luca A. Tagliafico DIME/TEC Via all'Opera Pia 15/A 16145 GENOVA Tel.: +39 010-3532880 Email: <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a>
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<b>Coordinator:</b> Tagliafico Luca Antonio	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti - DIME)	
<b>Places:</b> 4 – <b>Grants:</b> 3 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant based on funds from Ansaldo Energia, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant from DIME, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 10 a.m., at the DIME, MEC section, Via All'Opera Pia 15/a - 16145 Genova On request, the interview may also be done using computers (video conference via SKYPE) by contacting the Coordinator of the Doctoral Course Prof. Luca A. Tagliafico ( <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a> ) in advance and specifying the candidate's name, address and the curriculum he/she is referring to.
<b>Further information on how to present qualifications/publications</b>	QUALIFICATIONS/PUBLICATIONS MUST CONTAIN A DETAILED EXPLANATION AND THE DEVELOPMENT PLAN OF A POSSIBLE RESEARCH PROJECT, quoting the Mechanics, Measurements and Robotics (MMR) syllabus, and the field it refers to, in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described in the actual project.
<b>Exam syllabus</b>	The interview will be a discussion of the research project and qualifications/publications presented and on the correlated themes which feature in the MMR curriculum.
<b>Research themes</b>	The Mechanics, Measurements and Robotics (MMR) syllabus focalizes on research themes typical of the Macrosectors it refers to. In particular the research themes suggested concern the functional and constructive design sector, CAD, CAE, robot and manipulation, switch systems, home automation (domotics), remote manipulation, modular robots and robots for safety, intelligent mini-vehicles, systems for disassembly, mechanical behaviour of materials, environmental compatibility and recycling, pneumatics, oleo dynamics, mechanical and mechatronic systems, motor vehicles (cars and motorbikes), railway vehicles, airplanes, mechanical automation, working, raising and transport systems, lubrication, vibrations and noise, sound quality, experimental methods, diagnostics and qualifying of machines and components, monitoring and maintenance, reliability, reverse logistics.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Luca A Tagliafico (Email: <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a> ) and to the contact person of the MMR curriculum, Prof. Matteo ZOPPI (Email: <a href="mailto:Matteo.Zoppi@unige.it">Matteo.Zoppi@unige.it</a> ). The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Coordinator of the IMEG (MEME) doctoral course Prof. Luca A. Tagliafico DIME/TEC Via all'Opera Pia 15/A 16145 GENOVA Tel.: +39 010-3532880 Email: <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a>  Contact person for the MMR Curriculum: Prof. Matteo ZOPPI DIME/Sezione MEC Via all'Opera Pia 15/A 16145 GENOVA



<b>Coordinator:</b> Tagliafico Luca Antonio	
Department of Mechanical, Energetics, Management and Transport Engineering (Dipartimento di Ingegneria meccanica, energetica, gestionale e dei trasporti - DIME)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 10 a.m., at the DIME, MEC section, Via All'Opera Pia 15/a - 16145 Genova On request, the interview may also be done using computers (video conference via SKYPE) by contacting the Coordinator of the Doctoral Course Prof. Luca A. Tagliafico ( <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a> ) in advance and specifying the candidate's name, address and the curriculum he/she is referring to.
<b>Further information on how to present qualifications/publications</b>	QUALIFICATIONS/PUBLICATIONS MUST CONTAIN A DETAILED EXPLANATION AND THE DEVELOPMENT PLAN OF A POSSIBLE RESEARCH PROJECT, quoting the Technologies and Plants (TP) syllabus, and the field (TP.1 or TP.2) it refers to, in order to evaluate the candidate's ability to organize and carry out research. If admitted to the doctoral course, the candidate will generally carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on the specific activities described in the actual project.
<b>Exam syllabus</b>	The interview will be a discussion of the research project and qualifications/publications presented and on the correlated themes which feature in the TP curriculum.
<b>Research themes</b>	<p>The Technologies and Plants (TP) syllabus focalizes on research themes typical of the Macrosectors it refers to. It is organized into two specializations:</p> <p>1. Processing Technologies and Systems Specialization</p> <ul style="list-style-type: none"> <li>• analysis of the variables that influence the characteristics of welded joints implemented with traditional and innovative techniques,</li> <li>• study of the potential of robotic welding plants,</li> <li>• singling out of solutions that allow the obtaining of glued joints with adequate characteristics (study of the surface preparation methods, analysis of the behaviour of adhesives in different environmental conditions),</li> <li>• study of the problems concerning the fine tuning and monitoring of the processing of metallic and non-metallic materials,</li> <li>• study and singling out of construction techniques of moulds for polymeric materials,</li> <li>• surface analysis and fine tuning of techniques to obtain the desired degree of finishing and chemical reactivity.</li> </ul> <p>2. Industrial Plants Specialization</p> <ul style="list-style-type: none"> <li>• management of production processes,</li> <li>• Lean Manufacturing, Production, Assembly models,</li> <li>• redesigning and costs of production processes,</li> <li>• Life Cycle Assessment of plants and processes,</li> <li>• Engineering and industrialization of new products and production cycles.</li> </ul> <p>The activities that will be carried out within the doctoral course aim at training young researchers to be capable of developing theoretical and experimental research starting from the analysis of the state of the art and autonomously developing innovative solutions.</p> <p>The following laboratories are available for this syllabus:</p> <ul style="list-style-type: none"> <li>- laboratory for the micro - macro structural and mechanic characterization of materials</li> <li>- welding laboratory</li> <li>- laboratory for the implementation of glued joints</li> <li>- laboratory to test the environmental ageing of materials</li> <li>- laboratory of tools machinery, laboratory for the characterization of surfaces.</li> </ul>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:</p> <p><a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a> and to the contact person of the TP curriculum, Prof. Carla Gambaro Email: <a href="mailto:gambaro@diptem.unige.it">gambaro@diptem.unige.it</a></p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>

<b>Foreign languages</b>	English
<b>Further information</b>	<p>Coordinator of the IMEG (MEME) doctoral course  Prof. Luca A. TAGLIAFICO  DIME/TEC  Via all'Opera Pia 15/A  16145 GENOVA  Tel.: +39 010-3532880  Email: <a href="mailto:tgl@dittec.unige.it">tgl@dittec.unige.it</a></p> <p>Contact person for the TP curriculum  Prof. Carla Gambaro  DIME/Sezione MIG  Via all'Opera Pia 15  16145 GENOVA  Tel.: +39 010-3532889  Email: <a href="mailto:gambaro@diptem.unige.it">gambaro@diptem.unige.it</a></p>



<b>Coordinator:</b> Regazzoni Carlo	
Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni (DITEN)	
<b>Places:</b> 5 – <b>Grants:</b> 4 (*).	
(*) 4 grants from MIUR/DITEN funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is <b>€ 16.500,00</b>	
At the end of the course a joint qualification will be awarded by the University of Genova and the Queen Mary University of London	
<b>Second instalment</b>	500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	11/07/2016 – 9:30 a.m. (Italian time). Computer interview (via skype) or in person at: the DITEN Department, Via Opera Pia 11 16145 Genova
<b>Further information on how to present qualifications/publications</b>	<p>The application shall contain:</p> <p>a) curriculum vitae et studiorum correctly dated and signed. The CV shall include all the significant information relative to the research themes of the doctoral course to which the candidate is applying. This information should highlight: title of the dissertation of the specialist degree and a synthetic description of it, the list of exams carried out and the relative marks, previous research carried out and/or work experience, any other qualifications obtained, certifications, publications, patent, etc.</p> <p>b) the degree diploma certificate (three and five-year degree course). Candidates who have not obtained their degrees in Italy or the UK shall present the documentation of the qualification translated into English and a declaration of worth.</p> <p>c) a presentation of the Institute that awarded the qualification, containing a description of the selection methods, international and national ranking, typologies of the qualifications awarded, teaching languages, internet site (etc.) (max. 15 lines);</p> <p>d) if the candidate is not mother tongue English s/he shall present a certificate attesting his/her knowledge of English (e.g. IELTS min: 6.5; TOEFL min: 220 CBT, 550 PBT, 80 iBT obtained in the last three year starting from the date of application)</p> <p>e) a signed motivational letter containing a chosen research project and the reasons for the choice (max. 500 words)</p>
<b>Exam syllabus</b>	<p>The interview will consist in the illustration of the candidate's research activities in his/her field of interest, also taking into consideration previous research work mentioned in the candidate's CV.</p> <p>During the interview, the examining commission will assess the candidate's competences in relation to specific research themes.</p> <p>During the interview the candidate's knowledge of English will be tested. In order to be admitted to the interview, the candidate must exhibit the same identity document attached to the application, s/he may also show another valid identity document where s/he can be clearly identified.</p>
<b>Research themes</b>	<p>The main research themes of the project are: multimedia signal processing, data fusion, computer vision, cognitive dynamic system and machine learning.</p> <p>In particular, candidates shall use as reference for the presentation of qualifications/publications and the interview one of the following projects of their choice:</p> <ul style="list-style-type: none"> <li>- Systems and methods for data aggregation and information extraction from heterogeneous and multidimensional source signals</li> <li>- Study and development of biometrics systems based on open source hardware that implement algorithms derived by the analysis of biometrics measurements from the field</li> <li>- Study and development of methodologies for big data analysis for intelligent transportation systems. Design of a system to support transition to autonomous driving</li> <li>- Compressed sensing based approach for dynamic opportunistic transmission in cognitive radio devices</li> <li>- Dynamic Bayesian networks for heterogeneous signal processing for modeling, understanding and recognizing anomalous events in crowded environments</li> <li>- Highly robust and reliable embedded integrated systems for flexible electronic systems</li> <li>- Performance analysis, energy consumption and resource allocation for virtualized network functions: in the framework of Network Functions Virtualization, the problem to be considered is the allocation of computational resources for their execution, with respect to their performance (in terms of execution delay and maximum number of functions allowable) and to the energy consumption of the dedicated servers</li> <li>- Design and development of components for service-based serious games, with a special focus on natural Human-Computer Interaction</li> <li>- ICT solutions for Power Systems</li> </ul>
<b>Information on references</b>	carlo.regazzoni@unige.it; icephd@dibe.unige.it

<b>Foreign languages</b>	English
<b>Further information</b>	<p>The Doctoral Course in Interactive and Cognitive Environment belongs to the JOINT Doctorate typology and is organised and coordinated – according to the agreement entered into “COLLABORATION AGREEMENT BETWEEN QUEEN MARY UNIVERSITY OF LONDON AND UNIVERSITA’ DEGLI STUDI DI GENOVA” approved by the C.D.D. of the DITEN Department of the University of Genova, on 04.03.2016 and by the C.D.A. on 23.03.2016 – by the two Universities Partners in the Project: the University of Genova (UNIGE) and the Queen Mary University of London (QMUL). It envisages a joint model of coordination of the doctorate, of supervision and mobility of the candidates. In agreement with what has been stated herein, each winning candidate will be assigned two supervisors, one for each university partner. Candidates who participate in the public notice announced by the University of Genova and who win, and who therefore will have as Primary Institution the UNIGE, will be assigned as Primary Supervisor a UNIGE professor and as Secondary Supervisor a QMUL professor. At the end of the doctorate, those who will have passed the final exam successfully, will receive a joint qualification from both Partner Universities.</p> <p>Further information at: <a href="http://www.icephd.org/">http://www.icephd.org/</a></p>

\* date changed as a result of communication by the coordinator

Curriculum: CLASSICAL PHILOLOGY (CODE 6177)

<b>Coordinator:</b> Verdino Stefano Fernando	
Department of Italian and Romance languages, Classical Studies, Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 9 – <b>Grants:</b> 7 (*).	
(*) 7 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47 The number of grants (7) and the number of places without a grant (2) concerns the doctoral research course as a whole and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	05/07/2016 – 10 am Via Balbi 2, Room 6, 16126 Genova THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.
<b>Interview</b>	11/07/2016 – 10.30 am Via Balbi 2, Diraas (Library), 16126 Genova
<b>Further information on how to present qualifications/publications</b>	The 5-year degree dissertation and any other publications – in PDF format – shall be sent to the email address: w.lap@libero.it
<b>Exam syllabus</b>	The written test will be a translation from Latin or Greek (the candidate may choose) with a philological and exegetic comment. The interview will be a discussion in which the candidate will illustrate his/her research project, and a discussion of the written test. Candidates shall attach their research project to their application. The Teaching Body reserves the right to direct the graduate student towards a project that it deems more suitable for his/her abilities and skills, as well as being more congruent with the research lines of the Doctoral course.
<b>Research themes</b>	- Greek philology and literature; - Latin philology and literature; - Byzantine philology and literature; - Tradition and fortune of ancient Christian texts.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: valentina.pomata@unige.it
<b>Foreign languages</b>	English or French or Spanish or German. During the interview candidates must show sufficient knowledge of at least two of the languages indicated above in order to translate a scientific publication.
<b>Further information</b>	Candidates are advised to check the classification list of candidates admitted before coming to the written test. It will take into account the curriculum studiorum, qualifications/title, publications, the 5-year degree course thesis and the research project. THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.

<b>Coordinator:</b> Verdino Stefano Fernando	
Department of Italian and Romance languages, Classical Studies, Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 9 – <b>Grants:</b> 7 (*).	
(*) 7 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47. The number of grants (7) and the number of places without a grant (2) concerns the doctoral research course as a whole and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	05/07/2016 – 10 am Via Balbi 2, Room 6, 16126 Genova THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.
<b>Interview</b>	11/07/2016* – 9.00 am at the Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia - DAFIST), Via Balbi, 4, 3 <sup>rd</sup> floor, 16126 Genova.
<b>Further information on how to present qualifications/publications</b>	The 5-year degree dissertation and any other publications – in PDF format – shall be sent to the email address of prof. Marco Berisso mberisso@unige.it
<b>Exam syllabus</b>	Written test Comment and illustration (and possible translation) of a text in verse or prose; i.e.: the discussion of a theoretical or critical text concerning one of the following subject fields: Italian philology, Italian linguistics, history of the Italian language, Romance philology and linguistics. Oral test Discussion of the written test and of the candidate's research project, which s/he must attach to the application. The Teaching Body of the course proposes to direct the graduate student towards a project that it deems more suitable for his/her abilities and skills, as well as being more congruent with the research lines of the Doctoral course.
<b>Research themes</b>	Critical and commented editions of Italian literature texts (from the origins to the present day). - Philology and criticism of Romance texts. - Italian lexicology and lexicography. - Comedy, satire, parody: medieval and modern themes and practices.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: stefano.verdino@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	The translation of a passage from English or French will also be requested during the interview.
<b>Further information</b>	<a href="http://www.scienzeumanistiche.unige.it/dottorati">http://www.scienzeumanistiche.unige.it/dottorati</a>

\* date changed as a result of communication by the coordinator

° address changed modificato as a result of communication by the coordinator

**Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES**

**Curriculum: ITALIAN LITERATURE: TEXTUAL TRADITIONS AND INTERPRETATIONS  
(CODE 6173)**

<b>Coordinator:</b> Verdino Stefano Fernando	
Department of Italian and Romance languages, Classical Studies, Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 9 – <b>Grants:</b> 7 (*).	
(*) 7 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47 The number of grants (7) and the number of places without a grant (2) concerns the doctoral research course as a whole and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	05/07/2016 – 10 am Via Balbi 2, Room 6, 16126 Genova THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.
<b>Interview</b>	11/07/2016 – 10.30 am Via Balbi 2, Diraas (Library), 16126 Genova
<b>Further information on how to present qualifications/publications</b>	The 5-year degree dissertation and any other publications longer than 10 pages that cannot be attached with the application – in PDF format – shall be sent to Prof. Simona Morando: Email: simona.morando@unige.it or simonamorando@yahoo.it
<b>Exam syllabus</b>	Written test Historical and literary comment and illustration of a text in verse or prose; i.e.: the discussion of a theoretical or critical text concerning one of the following subject fields: Italian literature, modern and contemporary Italian literature, literary theory, history of Italian literary criticism, Italian theatre literature.  Oral test Discussion of the written test and of the candidate's research project, which s/he must attach to the application. The Teaching Body of the course proposes to direct the graduate student towards a project that it deems more suitable for his/her abilities and skills, as well as being more congruent with the research lines of the Doctoral course.
<b>Research themes</b>	- Critical and commented editions of Italian literature texts (from the origins to the present day). - Intertextual and intercultural research themes, from the origins of the “vulgar” literatures to contemporary Italian literature. - Italian literature from Manierism to the Twentieth Century. a) Ligurian workshop from the Sixteenth to the Twentieth Century b) From Mannerism to Romanticism c) The Risorgimento. - Authorial Documents in Liguria. - Literature and Journalism.
<b>Information on references</b> (indicate the address, physical or telematic, where the reference letters should be sent)	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: valentina.pomata@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	The translation of a passage from English or French will also be requested during the interview.
<b>Further information</b>	Candidates are advised to check the classification list of candidates admitted before coming to the written test. It will take into account the curriculum studiorum, qualifications/title, publications, the 5-year degree course thesis and the research project. THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.

<b>Coordinator:</b> Verdino Stefano Fernando	
Department of Italian and Romance languages, Classical Studies, Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 9 – <b>Grants:</b> 7 (*).	
(*) 7 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47 The number of grants (7) and the number of places without a grant (2) concerns the doctoral research course as a whole and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	05/07/2016 – 10 am Via Balbi 2, Room 6, 16126 Genova THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.
<b>Interview</b>	11/07/2016 – 10.30 am Via Balbi 2, DIRAAS (Library), 16126 Genova
<b>Further information on how to present qualifications/publications</b>	The 5-year degree dissertation and any other publications longer than 10 pages that cannot be attached with the application – in PDF format – shall be sent to Prof. Laura Colombino Email: laura.colombino@lingue.unige.it
<b>Exam syllabus</b>	Written test Historical and literary comment and illustration of a text in verse or prose concerning the period from the Nineteenth to the Twentieth Centuries which will be proposed by the candidate in its original language (English, German, Swedish, Danish, Norwegian). The use of monolingual dictionaries is allowed. The test may be done in Italian or in English. Oral test Discussion of the written test and of the candidate's research project, which s/he must attach to the application. The knowledge of two foreign languages will be tested. The Teaching Body proposes to direct the graduate student towards a project that it deems more suitable for his/her abilities and skills, as well as being more congruent with the research lines of the Doctoral course.
<b>Research themes</b>	The Doctoral course can accept a vast range research projects, on Anglo-American (19 <sup>th</sup> – 21 <sup>st</sup> centuries), English (16 <sup>th</sup> – 21 <sup>st</sup> centuries), Nordic (18 <sup>th</sup> – 21 <sup>st</sup> centuries), and German (16 <sup>th</sup> – 21 <sup>st</sup> centuries) literature authors and texts. Fields of particular interest: AMERICAN STUDIES American Renaissance; poetry and culture between the 19 <sup>th</sup> and 20 <sup>th</sup> centuries; the prose of James Fitzgerald; literature and society in the second Post War period; theatre (and cinema) of the 20 <sup>th</sup> century. ENGLISH STUDIES Genesis and development of the novel; forms of “scriblerian” writing from Swift to Sterne; orientalism in the age of Enlightenment; Sublime aesthetics and poetics; female writers and the literature market; representations of the English aristocracy; Romantics, late Romantics, early Victorians; the colonial wars in the Victorian Age; aestheticism and decadence; literary impressionism; late Victorian narrative; Modernism: metropolitan scholars and colonial outskirts; writing, view, visual arts and intertextuality; urban literature (20 <sup>th</sup> -21 <sup>st</sup> ); tradition and innovation in the poetry of the second Post War period; metaphysical poetry and modernist criticism. GERMAN STUDIES The courtly and 17 <sup>th</sup> century novel; the reception of Italian texts in German speaking countries (17 <sup>th</sup> and 18 <sup>th</sup> centuries); the theatre from the 17 <sup>th</sup> century to Expressionism; horror literature; the historical novel; the war novel; entertainment literature and construction of national identities (1850-1914). NORDIC LITERATURES Society and modernity between the 19 <sup>th</sup> and early 20 <sup>th</sup> centuries: “the irruption of Modernism”; Avant Guard, Decadentism and early Modernism; the crisis of values, the science/faith contrast and “occult revival” of the end of the 19 <sup>th</sup> century. Reception and/or translation of Nordic authors in other European areas; history of the book; relationships between European and Scandinavian authors; reception and translation of European authors in Scandinavia. Poetry and poetic currents; Modernism and Neoclassicism; poetry and new media; theatre and cinema. Literature for children in the 20 <sup>th</sup> century.

<b>Information on references</b> (indicate the address, physical or telematic, where the reference letters should be sent)	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: valentina.pomata@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	During the interview, candidates must prove they confidently master the foreign languages used in their research projects. Nonetheless, they must show an advanced level of knowledge of at least one foreign language, and at least an instrumental knowledge of a second foreign language, chosen among those active in the doctoral course (French, English, Polish, Portuguese, Russian, Spanish, Swedish, German). Students' whose mother tongue is not Italian will have to show their knowledge of Italian, besides the language/s used in their research projects, which is necessary for a fruitful participation in the didactic activities.
<b>Further information</b>	Candidates are advised to check the classification list of candidates admitted before coming to the written test. It will take into account the curriculum studiorum, qualifications/title, publications, the 5-year degree course thesis and the research project. <b>THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.</b>

\* e-mail address changed as a result of communication by the professor

## Curriculum: ROMANCE AND SLAVIC LITERATURES (CODE 6176)

<b>Coordinator:</b> Verdino Stefano Fernando	
Department of Italian and Romance languages, Classical Studies, Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 9 – <b>Grants:</b> 7 (*).	
(*) 7 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47 The number of grants (7) and the number of places without a grant (2) concerns the doctoral research course as a whole and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	05/07/2016 – 10 am Via Balbi 2, Room 6, 16126 Genova THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.
<b>Interview</b>	11/07/2016 – ore 10.30 Via Balbi 2, DIRAAS (Biblioteca), 16126 Genova
<b>Further information on how to present qualifications/publications</b>	The 5-year degree dissertation and any other publications longer than 10 pages that cannot be attached with the application – in PDF format – shall be sent to Prof. Sara Dickinson Email: sara.dickinson@unige.it
<b>Exam syllabus</b>	Written test Historical and literary comment and illustration of a text in verse or prose concerning the period from the Nineteenth to the Twentieth Centuries which will be proposed by the candidate in its original language (French, Spanish, Portuguese, Russian, Polish). The use of monolingual dictionaries is allowed. The test may be done in Italian or in English.  Oral test Discussion of the written test and of the candidate's research project, which s/he must attach to the application. The knowledge of two foreign languages will be tested. The Teaching Body proposes to direct the graduate student towards a project that it deems more suitable for his/her abilities and skills, as well as being more congruent with the research lines of the Doctoral course.
<b>Research themes</b>	The Doctoral course can accept a vast range of research projects, on French (17 <sup>th</sup> – 21 <sup>st</sup> centuries), Portuguese and Brazilian (19 <sup>th</sup> – 21 <sup>st</sup> centuries), Spanish (16 <sup>th</sup> – 21 <sup>st</sup> centuries), Polish (19 <sup>th</sup> – 20 <sup>st</sup> centuries) and Russian (18 <sup>th</sup> – 21 <sup>st</sup> centuries) literature authors and texts. Fields of particular interest: <b>FRENCH STUDIES</b> Detailed study of single authors, currents and trends from the 17th century to the present day; theoretical and poetic features of the petites revues from the end of the 19th century. <b>PORTUGUESE AND BRAZILIAN LITERATURE</b> Fernando Pessoa and Portuguese Modernism; José Cardoso Pires: Portuguese literature and power during Salazar's regime; literature and censorship; memory and trauma; the Colonial War; Brazilian Modernism; representations of space in the regional Brazilian novel; literature and the edge: Brazilian favelas; postcolonial studies; African literatures of Brazilian expression. <b>SPANISH LITERATURE</b> Literature of the crisis: essays and novels in Spain after the defeat of Cuba (1898); urban space in Spanish narrative of the second half of the 19 <sup>th</sup> century to the present day; narrative genres and hybridization in democratic Spain. <b>LATIN AMERICAN LITERATURES</b> Literary figures and myths on the background of the 1898 crisis; metropolitan spaces and violence (20 <sup>th</sup> and 21 <sup>st</sup> centuries); the re-reading of history by means of the narrative fiction of the '80s. <b>POLISH AND RUSSIAN JEWISH LITERATURE</b> Literature of the second half of the 20 <sup>th</sup> and beginning of the 21 <sup>st</sup> centuries, and in particular: identity and genre thematics, female literature, the relationship between literature and history, autobiographies. Jewish Studies within the Polish and Ashkenazic ambit, and also Jewish-Polish and Jewish-Italian literature; "imagologia" and forms of self-representation. <b>RUSSIAN STUDIES</b> Humour studies; onomastics; literature and geography: space, travel, identity; female literature; literature and emotions.



<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: valentina.pomata@unige.it</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	<p>During the interview, candidates must prove they confidently master the foreign languages used in their research projects. Nonetheless, they must show an advanced level of knowledge of at least one foreign language, and at least an instrumental knowledge of a second foreign language, chosen among those active in the doctoral course (French, English, Polish, Portuguese, Russian, Spanish, Swedish, Danish, Norwegian, German).</p> <p>Students' whose mother tongue is not Italian will have to show their knowledge of Italian, besides the language/s used in their research projects, which is necessary for a fruitful participation in the didactic activities.</p>
<b>Further information</b>	<p>Candidates are advised to check the classification list of candidates admitted before coming to the written test. It will take into account the curriculum studiorum, qualifications/title, publications, the 5-year degree course thesis and the research project.</p> <p>THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.</p>

**Course in: MODERN AND CLASSICAL LITERATURES AND CULTURES**

**Curriculum: SCIENCES OF CLASSICAL STUDIES (CODE 6178)**

<b>Coordinator:</b> Verdino Stefano Fernando	
Department of Italian and Romance languages, Classical Studies, Arts and Performing Arts (Dipartimento di Italianistica, romanistica, antichistica, arti e spettacolo – DIRAAS)	
<b>Places:</b> 9 – <b>Grants:</b> 7 (*).	
(*) 7 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47 The number of grants (7) and the number of places without a grant (2) concerns the doctoral research course as a whole and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	05/07/2016 – 10 am Via Balbi 2, Room 6, 16126 Genova THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.
<b>Interview</b>	11/07/2016 – 10.30 am Via Balbi 2, DIRAAS (Library), 16126 Genova
<b>Further information on how to present qualifications/publications</b>	The 5-year degree dissertation and any other publications – in PDF format – shall be sent to the email address: BiancaMaria.Giannattasio@lettere.unige.it
<b>Exam syllabus</b>	The written test will consist in the dealing of thematics contemplated in the research themes in the light of ancient sources and modern bibliography.  The oral test consists of an interview in which candidates will discuss their research projects and their written tests. Candidates shall attach their research project to their application. The Teaching Body reserves the right to direct the graduate student towards a project that it deems more suitable for his/her abilities and skills, as well as being more congruent with the research lines of the Doctoral course.
<b>Research themes</b>	Greek Civilization: historical, political, institutional, social, economic, religious and cultural aspects;  Roman Civilization: historical, political, institutional, social, economic, religious and cultural aspects;  Greek and Roman archeology and history of art: archeological research methods.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the email address: valentina.pomata@unige.it.
<b>Foreign languages</b>	English or French or Spanish or German. During the interview candidates must show sufficient knowledge of at least two of the languages indicated above in order to translate a passage from a scientific publication.
<b>Further information</b>	Candidates are advised to check the classification list of candidates admitted before coming to the written test. It will take into account the curriculum studiorum, qualifications/title, publications, the 5-year degree course thesis and the research project. THE CLASSIFICATION LIST OF THOSE ADMITTED TO THE WRITTEN TEST WILL BE PUBLISHED ON THE DIRAS WEBSITE BY THE 1 OF JULY 2016.

<b>Coordinator:</b> Pinamonti Nicola	
Department of Mathematics (Dipartimento di Matematica - DIMA)	
<b>Places:</b> 7 – <b>Grants:</b> 5 (*).	
(*) 5 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Data, ora e luogo del Interview:</b>	11/07/2016 – 9:00 am in the classrooms of the Department of Mathematics (DIMA), University of Genova, via Dodecaneso 35, 16146 Genova. The interviews may continue on 12 of July. Candidates who are interested may request the interview to be done also using computers (via SKYPE) by contacting Prof. Nicola Pinamonti (pinamont@dima.unige.it) at least 7 days before the test.
<b>Exam syllabus:</b>	The comparative assessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
<b>Further information on how to present qualifications/publications</b>	Besides the documentation listed in art. 3 of the public notice, candidates must present: - if available, their 5-year degree thesis (to be uploaded online). Furthermore: - in their curriculum their Three-year degree and 5-year degree mark should be indicated; - a research project (2 pages max.) which describes the research theme they intend to work on during the Doctoral Course.
<b>Research themes</b>	<ul style="list-style-type: none"> <li>- Harmonic and functional analysis,</li> <li>- Mathematical logic and theory of categories,</li> <li>- Commutative algebra and computer algebra,</li> <li>- Complex projective geometry,</li> <li>- Analytic theory of numbers,</li> <li>- Arithmetic geometry and computer algebra</li> <li>- Geometric methods in physics theories,</li> <li>- Mathematical aspects of quantum mechanics and theory of field on curved space,</li> <li>- Mathematical probability and statistics,</li> <li>- Numeric analysis and computational methods with applications in medical imaging, neurosciences and astrophysics.</li> </ul>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Nicola Pinamonti, Dipartimento di Matematica, Università di Genova, Via Dodecaneso 35, 16146 Genova or, alternatively, to the email address: pinamont@dima.unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Nicola Pinamonti Dipartimento di Matematica, Università di Genova Via Dodecaneso 35, 16146 Genova (GE) Email: pinamont@dima.unige.it

**Course in: MATHEMATICS AND APPLICATIONS****Curriculum: MATHEMATICAL METHODS FOR THE ANALYSIS OF DATA (CODE 6180)**

<b>Coordinator:</b> Pinamonti Nicola	
Department of Mathematics (Dipartimento di Matematica - DIMA)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Data, ora e luogo del colloquio:</b>	11/07/2016 – 9:00 am in the classrooms of the Department of Mathematics (DIMA), University of Genova, via Dodecaneso 35, 16146 Genova. The interviews may continue on 12 of July. Candidates who are interested may request the interview to be done also using computers (via SKYPE) by contacting Prof. Nicola Pinamonti (pinamont@dim.unige.it) at least 7 days before the test.
<b>Exam syllabus:</b>	The comparative assessment procedure consists in the assessment of qualifications/publications and in interview on the research project presented by the candidate.
<b>Further information on how to present qualifications/publications</b>	Besides the documentation listed in art. 3 of the public notice, candidates must present: - if available, their 5-year degree thesis (to be uploaded online). Furthermore: - in their curriculum their Three-year degree and 5-year degree mark should be indicated; - a research project (2 pages max.) which describes the research theme they intend to work on during the Doctoral Course.
<b>Research themes</b>	<ul style="list-style-type: none"><li>- Machine learning</li><li>- Optimization</li><li>- Nonparametric statistics</li><li>- Convex analysis</li><li>- Functional analysis</li><li>- Numerical analysis</li><li>- Mathematical probability and statistics</li></ul>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Nicola Pinamonti, Dipartimento di Matematica, Università di Genova, Via Dodecaneso 35, 16146 Genova or, alternatively, to the email address: pinamont@dim.unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Nicola Pinamonti Dipartimento di Matematica, Università di Genova Via Dodecaneso 35, 16146 Genova (GE) Email: pinamont@dim.unige.it

**Course in: CLINICAL-EXPERIMENTAL INTERNAL MEDICINE**

**Curriculum: CLINICAL PATHOPHYSIOLOGY OF ENDOCRINE AND METABOLIC DISORDERS (CODE 6184)**

<b>Coordinator:</b> Bagnasco Marcello Ferruccio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche - DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	12/07/2016 – 9:00 am in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Interview</b>	12/07/2016 – 2:00 pm in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Exam syllabus</b>	The written test will be on topics relating to the research themes indicated below. The oral test may include a discussion of the written test and of the candidates' research programmes / field of interest, also on the basis of their curriculum vitae.
<b>Research themes</b>	<ul style="list-style-type: none"> <li>- Physiopathology of hypophyseal secretions, with special regard to the hypothalamus-somatotropin-prolactin axis and to the IGF1 system</li> <li>- Physiopathology of receptors for somatostatin in neuroendocrine tumours</li> <li>- Epidemiological and clinical aspects of thyroid nodules even in relation to iodine supply</li> <li>- Cellular mechanisms of insulin action and other growth factors</li> <li>- Physiopathology of insulin resistance and diabetes type II</li> </ul>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course:</p> <p>Prof Marcello Bagnasco, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova), Email: bagnasco@csita.unige.it.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Contact professors:</p> <p>Prof Marcello Bagnasco (Coordinatore del corso) Email: bagnasco@csita.unige.it</p> <p>Prof Renzo Cordera Email: record@unige.it</p> <p>Prof. Diego Ferone E- mail: ferone@unige.it</p> <p>Contact person in administration: Mrs Gilda Palma Email: gildaplma@unige.it</p>

**Course in: CLINICAL-EXPERIMENTAL INTERNAL MEDICINE****Curriculum: CLINICAL PATOPHYSIOLOGY OF RENAL, CARDIOVASCULAR AND ARTERIAL HYPERTENSIVE DISEASES (CODE 6183)**

<b>Coordinator:</b> Bagnasco Marcello Ferruccio	
Department of Internal Medicine and Medical Specialties (Dipartimento di Medicina interna e Specialità mediche - DIMI)	
<b>Places:</b> 2 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	12/07/2016 – 9:00 am in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Interview</b>	12/07/2016 – 2:00 pm in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Exam syllabus</b>	The written test will be on topics relating to the research themes indicated below. The oral test may include a discussion of the written test and of the candidates' research programmes / field of interest, also on the basis of their curriculum vitae.
<b>Research themes</b>	<ul style="list-style-type: none"><li>- Arterial hypertension: determinants of renal and extra renal damage in patients with essential arterial hypertension.</li><li>- Microalbuminuria/proteinuria as predictors of renal and cardiovascular damage and light renal dysfunctions.</li><li>- Pathophysiological and pathogenic aspects of coronary and aortic atherosclerosis disease</li><li>- Mechanisms of artery thrombosis and the possible role of oxidizing stress in the pathogenesis of acute coronary syndromes and of aortic aneurysms.</li></ul>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course: Prof Marcello Bagnasco, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova), Email: bagnasco@csita.unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact professors: Prof Marcello Bagnasco, Coordinatore del corso Email: bagnasco@csita.unige.it  Prof. Giacomo Garibotto Email: gari@unige.it  Contact person in administration: Mrs Gilda Palma Email: gildaplm@unige.it

**Course in: CLINICAL-EXPERIMENTAL INTERNAL MEDICINE****Curriculum: CLINICAL AND EXPERIMENTAL RESPIRATORY PATHOPHYSIOLOGY (CODE 6185)**

<b>Coordinator:</b> Bagnasco Marcello Ferruccio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche - DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	12/07/2016 – 9:00 am in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Interview</b>	12/07/2016 – 2:00 pm in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Exam syllabus</b>	The written test will be on topics relating to the research themes indicated below. The oral test may include a discussion of the written test and of the candidates' research programmes / field of interest, also on the basis of their curriculum vitae.
<b>Research themes</b>	<ul style="list-style-type: none"><li>- The relationships between allergic inflammations and bronchomotricity, study of pharmacological and immunotherapeutic effects on allergic inflammation and on bronchial reactivity.</li><li>- Function and structure of the bronchial part: study of inflammatory and remodelling processes.</li><li>- Mechanisms of bronchial obstruction at rest and under stress: clinical physiopathology and instrumental tests of the respiratory function.</li><li>- Advanced therapeutic strategies in allergology and pneumology.</li></ul>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course: Prof Marcello Bagnasco, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova), Email: bagnasco@csita.unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact professors: Prof Marcello Bagnasco, Coordinatore del corso Email: bagnasco@csita.unige.it  Prof. Anna Maria Riccio Email: anna.maria.riccio@unige.it  Contact person in administration: Mrs Gilda Palma Email: gildapl@unige.it

**Course in: CLINICAL-EXPERIMENTAL INTERNAL MEDICINE****Curriculum: GERONTOLOGY, PATHOPHYSIOLOGY OF GERIATRIC DISEASES AND ANTI-AGEING MEDICINE (CODE 6186)**

<b>Coordinator:</b> Bagnasco Marcello Ferruccio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche - DIMI)	
<b>Places:</b> 2 – <b>Grants:</b> 1 (*).	
(*) 1 borsa su fondi DIMI, l'importo annuale della borsa, al lordo degli oneri previdenziali a carico del percipiente, è di € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	12/07/2016 – 9:00 am in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Interview</b>	12/07/2016 – 2:00 pm in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Exam syllabus</b>	The written test will be on topics relating to the research themes indicated below. The oral test may include a discussion of the written test and of the candidates' research programmes / field of interest, also on the basis of their curriculum vitae.
<b>Research themes</b>	<ul style="list-style-type: none"><li>- Role of glycation in ageing</li><li>- Clinical geriatric oncology</li><li>- Therapy of Alzheimer's Disease</li><li>- Pathophysiology of "Fragility in the Elderly"</li></ul>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course: Prof Marcello Bagnasco, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova), Email: bagnasco@csita.unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact professors: Prof Marcello Bagnasco, Coordinatore del corso Email: bagnasco@csita.unige.it  Prof. Patrizio Odetti Email: odetti@unige.it  Contact person in administration: Mrs Gilda Palma Email: gildaplma@unige.it



**Course in: CLINICAL-EXPERIMENTAL INTERNAL MEDICINE****Curriculum: AUTOIMMUNE AND AUTOINFLAMMATORY DISEASES: PATHOPHYSIOLOGICAL AND DIAGNOSTIC ASPECTS (CODE 6182)**

<b>Coordinator:</b> Bagnasco Marcello Ferruccio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche - DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	12/07/2016 – 9:00 am in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Interview</b>	12/07/2016 – 2:00 pm in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Exam syllabus</b>	The written test will be on topics relating to the research themes indicated below. The oral test may include a discussion of the written test and of the candidates' research programmes / field of interest, also on the basis of their curriculum vitae.
<b>Research themes</b>	<ul style="list-style-type: none"><li>- Immunoregulation and autoimmunity: the role of molecular mechanisms of co-stimulation.</li><li>- Laboratory diagnostics of systemic and organ-specific autoimmune diseases.</li><li>- Autoimmune thyroid pathologies, celiac disease, autoimmune gastritis and multi-autoimmune syndromes: epidemiological, immunological and genetic aspects.</li><li>- Autoinflammation, autoimmunity and the cardiovascular apparatus: innate and acquired immunity and cardiocirculatory decompensation, role of the endothelium.</li><li>- Atherosclerosis and innate and acquired immunity.</li></ul>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course, for this course: Prof Marcello Bagnasco, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova), Email: bagnasco@csita.unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact professors: Prof Marcello Bagnasco, Coordinatore del corso Email: bagnasco@csita.unige.it  Prof. Giampaola Pesce Email: pescegpl@unige.it  Contact person in administration: Mrs Gilda Palma Email: gildapl@unige.it

**Course in: CLINICAL-EXPERIMENTAL INTERNAL MEDICINE**

**Curriculum: DISEASES OF THE DIGESTIVE SYSTEM AND OF THE LIVER (CODE 6181)**

<b>Coordinator:</b> Bagnasco Marcello Ferruccio	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche - DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	12/07/2016 – 9:00 am in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Interview</b>	12/07/2016 – 2:00 pm in room D, DIMI, ground floor, Viale Benedetto XV, 6 – 16132 Genova
<b>Exam syllabus</b>	The written test will be on topics relating to the research themes indicated below. The oral test may include a discussion of the written test and of the candidates' research programmes / field of interest, also on the basis of their curriculum vitae.
<b>Research themes</b>	<ul style="list-style-type: none"> <li>- Helicobacter Pylori infection: role in functional dyspepsia, bacterial resistance in eradicating therapies, association with extradigestive pathologies</li> <li>- Gastroesophageal reflux diseases: evaluation of acid and non-acid reflux by means of pH-metry and impedentiometry.</li> <li>- Approach and diagnosis therapy of chronic inflammatory diseases of the intestine.</li> <li>- HCV-correlated chronic hepatitis and hepatic fibrogenesis: diagnostic and therapeutic aspects, association with hepatocarcinoma and relative prognostic factors.</li> <li>- Structure and physiology of the stomatognathic system: morphology of the different components in relation to function, dissection techniques of the head and neck structures.</li> <li>- Epidemiology of oral diseases: incidence, preponderance, correlation with the general state of health and with systemic diseases.</li> </ul>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course, for this course:</p> <p>Prof Marcello Bagnasco, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova), Email: bagnasco@csita.unige.it.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Contact professors:</p> <p>Prof Marcello Bagnasco, Coordinatore del corso Email: bagnasco@csita.unige.it</p> <p>Prof Vincenzo Savarino Email: vsavarin@unige.it</p> <p>Contact person in administration:</p> <p>Mrs Gilda Palma Email: gildapl@unige.it</p>

**Course in: EXPERIMENTAL MEDICINE**

**Curriculum: BIOCHEMISTRY (CODE 6187)**

<b>Coordinator:</b> Salamino Franca	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale - DIMES)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	04/07/2016 – 10:00 am, in DIMES, Biochemistry section, Viale Benedetto XV - 1 small room first floor, 16132 Genova
<b>Exam syllabus</b>	The interview will focus on topics relating to General Biochemistry, the illustration of any of the candidates' previous experiences in the field of scientific research or while preparing their dissertation and English knowledge will be tested with the reading and translation of a passage from a scientific article.
<b>Research themes</b>	Study of molecular mechanisms for the regulation of cellular activity by protein mediators and not only, of natural origin. Alteration in their regulation and associated pathogenicity.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Franca Salamino DIMES sez. Biochimica Viale Benedetto XV 1 16132 Genova Tel.: +39 010 3538160 Email: salamino@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Franca Salamino DIMES sez. Biochimica Viale Benedetto XV 1 16132 Genova Tel.: +39 010 3538160 Email: salamino@unige.it

**Course in: EXPERIMENTAL MEDICINE**

**Curriculum: PHARMACOLOGY AND TOXICOLOGY (CODE 6188)**

<b>Coordinator:</b> Salamino Franca	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale - DIMES)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant from MIUR/DIFAR funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 9:00 am, in the Department of Pharmacy (Pharmacology and Toxicology Section), Viale Cembrano 4, 16148 Genova
<b>Exam syllabus</b>	The interview will focus on topics relating to General and Clinical Pharmacology and General and Special Toxicology, the illustration of any of the candidates' previous experiences in the field of scientific research or while preparing their dissertation and English knowledge will be tested with the reading and translation of a passage from a scientific article.
<b>Research themes</b>	Neuropharmacology, Neurotoxicology, Clinical Pharmacology and Genotoxicity.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Ernesto Fedele, Dipartimento di Farmacia, Viale Cembrano 4, 16148 Genova Tel.: 010-3532659 Email: fedele@difar.unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Ernesto Fedele, Dipartimento di Farmacia, Viale Cembrano 4, 16148 Genova Tel.: 010-3532659 Email: fedele@difar.unige.it

**Course in: EXPERIMENTAL MEDICINE**

**Curriculum: MOLECULAR AND CELLULAR PATHOLOGIES OF DISEASES CORRELATED TO AGEING (CODE 6189)**

<b>Coordinator:</b> Salamino Franca	
Department of Experimental Medicine (Dipartimento di Medicina Sperimentale - DIMES)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	07/07/2016 – 9:30 am, in the General Pathology Division of the Department of Experimental Medicine (Dipartimento di Medicina Sperimentale - DIMES), Via Leon Battista Alberti, 2, 16132 - Genova
<b>Exam syllabus</b>	Interdisciplinary, experimental, clinical methodologies and pharmaceutical and therapeutic themes concerning the pathology of ageing and age-related and age-dependent diseases.
<b>Research themes</b>	Ageing theories - Molecular and cellular alterations in ageing - Ageing mechanisms of the sense organs - Molecular bases of neoplasias
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: Prof. Cinzia Domenicotti, Dimes - Patologia Generale, Via Leon Battista Alberti, 2, 16132 - Genova, Tel.: 0103538830, Email: cinzia.domenicotti@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Cinzia Domenicotti, Dimes - Patologia Generale, Via Leon Battista Alberti, 2, 16132 - Genova, Tel.: 0103538830, Email: cinzia.domenicotti@unige.it

**Course in: TRANSLATIONAL MEDICINE IN ONCOLOGY AND HAEMATOLOGY****Curriculum: TRANSLATIONAL HAEMATOLOGY (CODE 6192)**

<b>Coordinator:</b> Ballestrero Alberto	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche - DIMI)	
<b>Places:</b> 2 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	06/07/2016 – 9:00 am, in Room C, DIMI, Viale Benedetto XV, 6, – 16132 Genova
<b>Interview</b>	06/07/2016 – 3:00 pm, in Room C, DIMI, Viale Benedetto XV, 6 – 16132 Genova
<b>Exam syllabus</b>	The written test will be on topics relating to the research themes indicated below. The oral test may include a discussion of the written test and of the candidates' research field of interest/plans, also on the basis of their curriculum vitae.
<b>Research themes</b>	Apoptosis regulation in neoplastic haematological pathologies. Study of the pathogenesis of acute lymphocytic leukaemias. Molecular analysis of leukaemias and multiple myeloma. Innovative therapeutic approaches in the treatment of solid tumours and haematological neoplasias. Tumour pathology as the pathology of the molecular networks of control. Study of the molecular and pathogenic aspects of cardiotoxicity due to antineoplastic drugs.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course: Prof Alberto Ballestrero, Dip. Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova), Email: aballestrero@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact professors per il curriculum in oggetto: Prof Alberto Ballestrero (coordinator) Email: aballestrero@unige.it  Prof. Marco Gobbi Email: gobbi@unige.it  Contact person in administration: Mrs Gilda Palma Email: gildaplm@unige.it

**Course in: TRANSLATIONAL MEDICINE IN ONCOLOGY AND HAEMATOLOGY****Curriculum: ONCOLOGICAL GENETICS AND MOLECULAR PATHOLOGY (CODE 6190)**

<b>Coordinator:</b> Ballestrero Alberto	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche - DIMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	06/07/2016 – 9:00 am, in Room C, DIMI, Viale Benedetto XV, 6, – 16132 Genova
<b>Interview</b>	06/07/2016 – 3:00 pm, in Room C, DIMI, Viale Benedetto XV, 6 – 16132 Genova
<b>Exam syllabus</b>	The written test will be on topics relating to the research themes indicated below. The oral test may include a discussion of the written test and of the candidates' research field of interest/plans, also on the basis of their curriculum vitae.
<b>Research themes</b>	Determination of genes involved in the onset, progression and metastasis phase of the neoplasia by means of studies at tissue level for the development of tumourigenesis and targeted therapy. Evaluation of predisposition to the development of tumours. Studies on high and low penetrance susceptibility genes and new models to calculate the risk.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course, for this course: Prof Alberto Ballestrero, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova), Email: aballestrero@unige.it. Contact person in administration: Gilda Palma, Email: gildaplm@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact professors for this curriculum: Prof Alberto Ballestrero (Coordinatore) Email: aballestrero@unige.it  Prof. Giovanna Bianchi Email: Giovanna.Bianchi@unige.it  Contact person in administration: Mrs Gilda Palma Email: gildaplm@unige.it

**Course in: TRANSLATIONAL MEDICINE IN ONCOLOGY AND HAEMATOLOGY****Curriculum: TRANSLATIONAL ONCOLOGY (CODE 6191)**

<b>Coordinator:</b> Ballestrero Alberto	
Department of Internal Medicine and Medical Specialities (Dipartimento di Medicina interna e Specialità mediche - DIMI)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) di cui 1 borsa su fondi MIUR/DIMI, l'importo annuale della borsa, al lordo degli oneri previdenziali a carico del percipiente, è di € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	06/07/2016 – 9:00 am, in ROOM C, DIMI, Viale Benedetto XV, 6, – 16132 Genova
<b>Interview</b>	06/07/2016 – 3:00 pm, in ROOM C, DIMI, Viale Benedetto XV, 6 – 16132 Genova
<b>Exam syllabus</b>	The written test will be on topics relating to the research themes indicated below. The oral test may include a discussion of the written test and of the candidates' research field of interest/plans, also on the basis of their curriculum vitae.
<b>Research themes</b>	Monitoring of solid neoplasias by analyzing circulating nucleic acids. Study of the molecular prognostic and predictive factors of the response of solid neoplasias, including thyroid and neuroendocrine tumours. Pre-clinical studies of associations between/among new antineoplastic drugs. Pre-clinical and clinical experiments in translational oncology. Innovative therapeutic approaches in the treatment of solid tumours and haematological neoplasias. Tumour pathology as the pathology of the molecular networks of control. Study of the molecular and pathogenic aspects of cardiotoxicity due to antineoplastic drugs.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course, for this course: Prof Alberto Ballestrero, Dip. Di Medicina Interna DIMI, viale Benedetto XV n.6, (16132 Genova), Email: aballestrero@unige.it. Contact person in administration: Gilda Palma, Email: gildaplm@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact professors for this curriculum: Prof Alberto Ballestrero (coordinator) Email: aballestrero@unige.it  Prof Francesco Boccardo Email: f.boccardo@unige.it  Contact person in administration Mrs Gilda Palma Email: gildaplm@unige.it



**Course in: INNOVATIVE METHODS APPLIED TO TRANSMISSIBLE AND CHRONIC-DEGENERATIVE DISEASES: EPIDEMIOLOGY, STATISTICS, PREVENTION, MANAGEMENT AND NURSING**

**Curriculum: EPIDEMIOLOGY, PATHOPHYSIOLOGY AND DIAGNOSTIC AND CLINICAL MANAGEMENT OF INFECTIOUS DISEASES (CODE 6193)**

<b>Coordinator:</b> Viscoli Claudio	
Department of Health Sciences (Dipartimento di Scienze della Salute - DISSAL)	
<b>Places:</b> 2 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	04/07/2016 – 9:00 am, in Room A DISSAL, Via Pastore 1,16132 Genova
<b>Interview</b>	04/07/2016 – 11:00 am, in Room A DISSAL, Via Pastore 1,16132 Genova
<b>Further information on how to present qualifications/publications</b>	Please note that by qualifications/publications reference is made to the information in the application and in the curriculum vitae et studiorum, the research project, other qualifications/publications. The latter must not exceed 10 pages each.
<b>Exam syllabus</b>	The tests will concern topics relating to the research themes.
<b>Research themes</b>	1. Infection of the immunocompromised host: epidemiology, diagnostics and therapy. 2. Antibiotic resistance and hospital infections: surveillance, epidemiology and clinical management. 3. HIV infection: immunological alterations, opportunistic infections, antiretroviral therapy. 4. Chronic hepatopathy correlated to HCV and HBV. 5. Tuberculosis: epidemiology and drug resistance.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course, course Prof. Claudio Viscoli, at the following address: claudio.viscoli@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Contact person in administration: Mr Giuseppe Zara Email: giuseppe.zara@unige.it

**Course in: INNOVATIVE METHODS APPLIED TO TRANSMISSIBLE AND CHRONIC-DEGENERATIVE DISEASES: EPIDEMIOLOGY, STATISTICS, PREVENTION, MANAGEMENT AND NURSING**

**Curriculum: EPIDEMIOLOGY AND PROPHYLAXIS OF VACCINE-PREVENTABLE DISEASES (CODE 6194)**

<b>Coordinator:</b> Viscoli Claudio	
Department of Health Sciences (Dipartimento di Scienze della Salute - DISSAL)	
<b>Places:</b> 3 – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant based on funds from MIUR/DISSAL, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Prova scritta</b>	04/07/2016 – 9:00 am, in Room A DISSAL, Via Pastore 1,16132 Genova
<b>Interview</b>	04/07/2016 – 11:00 am, in Room A DISSAL, Via Pastore 1,16132 Genova
<b>Further information on how to present qualifications/publications</b>	Please note that by qualifications/publications reference is made to the information in the application and in the curriculum vitae et studiorum, the research project, other qualifications/publications. The latter must not exceed 10 pages each.
<b>Exam syllabus</b>	The tests will concern topics relating to the research themes.
<b>Research themes</b>	<p>1. Epidemiology of transmissible vaccine-preventable and non vaccine-preventable diseases – Design, organization and evaluation of clinical-epidemiological and virological surveillance systems – Design, standardization and evaluation of molecular techniques for the detection and characterization of microorganisms – Utilization of mathematical models to evaluate the impact of preventive measures.</p> <p>2. Immunological response to vaccinal preparations – Design, standardization and evaluation of techniques to determine the humoral response – Determinants of the cell-mediated response – Clinical studies on monovalent and combined, inactivated and attenuated live vaccines, differently adjuvanted, to be administered by injection and mucosally, so as to evaluate safety, tolerability, immunogenicity and efficacy – Association of different vaccinal preparations and use of alternative schedules – studies on files for the evaluation of effectiveness.</p> <p>3. Role of vaccinations in children and adolescents, adults and the elderly – Detection of rates of vaccine coverage – Monitoring of preventable cases.</p> <p>4. Regulating and authoritative aspects of vaccines – Ethic evaluations.</p>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course, Prof. Giancarlo Icardi, at the following address: icardi@unige.it</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Contact person in administration: Giuseppe Zara Email: giuseppe.zara@unige.it</p>

**Course in: INNOVATIVE METHODS APPLIED TO TRANSMISSIBLE AND CHRONIC-DEGENERATIVE DISEASES: EPIDEMIOLOGY, STATISTICS, PREVENTION, MANAGEMENT AND NURSING**

**Curriculum: RESEARCH METHODOLOGY IN NURSING (CODE 6196)**

<b>Coordinator:</b> Viscoli Claudio	
Department of Health Sciences (Dipartimento di Scienze della Salute - DISSAL)	
<b>Places:</b> 2 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	04/07/2016 – 9:00 am, in Room A DISSAL, Via Pastore 1,16132 Genova
<b>Interview</b>	04/07/2016 – 11:00 am, in Room A DISSAL, Via Pastore 1,16132 Genova
<b>Further information on how to present qualifications/publications</b>	Please note that by qualifications/publications reference is made to the information in the application and in the curriculum vitae et studiorum, the research project, other qualifications/publications. The latter must not exceed 10 pages each.
<b>Exam syllabus</b>	The tests will concern topics relating to the research themes.
<b>Research themes</b>	<ol style="list-style-type: none"> <li>1. Patient safety and error risk prevention in assistance procedures.</li> <li>2. Prevention, education and assistance of people who suffer from chronic health problems.</li> <li>3. Family and Patient Centred Care and Child and family Centred Care</li> <li>4. Innovative training models and methodologies in healthcare.</li> </ol>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course, Prof. Loredana Sasso, at the following address: L.Sasso@unige.it</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Contact person in administration:</p> <p>Mr Giuseppe Zara</p> <p>Email: giuseppe.zara@unige.it</p>

**Course in: INNOVATIVE METHODS APPLIED TO TRANSMISSIBLE AND CHRONIC-DEGENERATIVE DISEASES: EPIDEMIOLOGY, STATISTICS, PREVENTION, MANAGEMENT AND NURSING**

**Curriculum: PREVENTION OF CANCER AND OF CHRONIC DEGENERATIVE DISEASES AND BIOSTATISTICS (CODE 6195)**

<b>Coordinator:</b> Viscoli Claudio	
Department of Health Sciences (Dipartimento di Scienze della Salute - DISSAL)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 200,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	04/07/2016 – 9:00 am, in Room A DISSAL, Via Pastore 1,16132 Genova
<b>Interview</b>	04/07/2016 – 11:00 am, in Room A DISSAL, Via Pastore 1,16132 Genova
<b>Further information on how to present qualifications/publications</b>	Please note that by qualifications/publications reference is made to the information in the application and in the curriculum vitae et studiorum, the research project, other qualifications/publications. The latter must not exceed 10 pages each.
<b>Exam syllabus</b>	The tests will concern topics relating to the research themes.
<b>Research themes</b>	<ol style="list-style-type: none"> <li>1. Molecular epidemiology of tumours and other chronic-degenerative diseases</li> <li>2. Diet and pharmacological prevention of tumours</li> <li>3. Prevention of cardiovascular diseases, ophthalmic pathologies and neurodegenerative forms</li> <li>4. Smoking related molecular alterations and tumours and their prevention</li> <li>5. Study of the factors of genetic predisposition to cancer</li> <li>6. Methodological principles for the design and analysis of studies of prognostic factors, effect markers of a treatment and surrogate endpoints.</li> </ol>
<b>Information on references</b>	<p>Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course, Prof. Alberto Izzotti, at the following address: izzotti@unige.it</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Contact person in administration:</p> <p>Mr Giuseppe Zara</p> <p>Email: giuseppe.zara@unige.it</p>

## Curriculum: CLINICAL AND EXPERIMENTAL NEUROSCIENCES (CODE 6197)

<b>Coordinator:</b> Abbruzzese Giovanni	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI)	
<b>Places:</b> 7 – <b>Grants:</b> 4 (*)	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant based on funds from “ASL 4 Chiavarese”, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 400,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	07/07/2016 – 9:30 am, in the Library of the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI), Largo Paolo Daneo, 3 16132 Genova
<b>Further information on how to present qualifications/publications</b>	The following qualifications/publications will be evaluated: Degree mark Degree dissertation Acknowledgments and awards Reference letters Work experience in research in Neurosciences Publications Research programmes
<b>Exam syllabus</b>	Description of the research project the candidates intend to develop during their doctoral course.
<b>Research themes</b>	a) Neurology: multiple sclerosis; hereditary peripheral neuropathies and immunomediated neuropathies, degenerative diseases of the central nervous system, dementias, epilepsy, cerebrovascular diseases, extrapyramidal diseases and Parkinson's disease, neuroreanimation. b) Psychiatry: affective disorders, convulsive obsessive disorder, schizophrenia and manic-depressive psychosis. c) Neurogenetics: hereditary peripheral neuropathies, cerebellar ataxias, Huntington's disease, taupathies, type 1 and 2 neurofibromatosis. d) Developmental neurology: epilepsy, child cerebral palsy, mental retardation, extrapyramidal diseases, autism, neuromuscular diseases. e) Neuroimages: studies of conventional and non-conventional MR on neurologic and psychiatric diseases. f) Cellular and molecular neurophysiopathology: cellular and molecular mechanisms of synaptic transmission and plasticity, molecular mechanisms of the effects of neurotrophins on synaptic transmission and synaptogenesis; generation and study of engineered circuits of cultured neurons on artificial substrates; characteristics of the GABA-A receptors of cerebellar granule cells; role of chemokines in the physiology of neural stem cells and in the oncogenesis of brain tumours. g) Sleep physiopathology: application of macro and micro-structural mathematical models of the internal organisation of sleep to the study of dyssomnia and hypersomnia; chrono-biology of the regulation of the sleep-waking cycle in relation to road safety and to shift workers; Role of neural mechanisms involved in the regulation of sleep in the epileptogenesis process. h) Pathogenesis of Neurodegenerative Diseases. i) Physiopathology of movement. j) Stem cell therapies for diseases of the nervous system.
<b>Information on references</b>	Please send to kind attention of The director of the curriculum in “Clinical And Experimental Neurosciences (Neuroscienze cliniche e sperimentali) Prof. Antonio Uccelli Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Largo Paolo Daneo 3, 16132 Genova Email: <a href="mailto:aucelli@neurologia.unige.it">aucelli@neurologia.unige.it</a> Dott.ssa Maria Paola Fenu Email: <a href="mailto:neurologia@neurologia.unige.it">neurologia@neurologia.unige.it</a>
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Antonio Uccelli Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Largo Paolo Daneo 3, 16132 Genova Tel. 010-3537030-7040; Fax 010-3538631 Email: <a href="mailto:aucelli@neurologia.unige.it">aucelli@neurologia.unige.it</a> Dott.ssa Maria Paola Fenu

	Email: <a href="mailto:neurologia@neurologia.unige.it">neurologia@neurologia.unige.it</a>
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## Curriculum: NEUROSCIENCES AND NEUROTECHNOLOGIES (CODE 6198)

<b>Coordinator:</b> Abbruzzese Giovanni	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI)	
<b>Places:</b> 15 – <b>Grants</b> 15 (*).	
(*) 15 grants from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 400,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	The following documentation must be submitted by means of the online procedure according to the guidelines of the public notice: a) title of the degree dissertation; b) brief description of the degree dissertation; c) list of exams and their marks; d) a signed research project concerning one or more of the research themes of the doctoral course object of the application (maximum 10 pages); e) The names, status and work place of the referees, at least 1 and not more than three, who must send reference letters about the candidate directly to the following email address: nbtphdcourse@iit.it f) a statement declaring one's knowledge of English since it is the language of the doctoral course.
<b>Research themes</b>	The titles of the research themes are listed below; to have an overview of the complete abstracts of the research themes go to <a href="https://www.iit.it/phd-school">https://www.iit.it/phd-school</a> 1) Molecular determinants and of dendritic topology GABAergic postsynaptic plasticity. Tutor: Andrea Barberis; andrea.barberis@iit.it 2) Molecular determinants of epilepsy. Tutor: Fabio Benfenati; fabio.benfenati@iit.it 3) Large-scale single neuron activity recordings for bioelectric therapeutics. Tutor: Luca Berdondini; luca.berdondini@iit.it 4) Cellular determinants of brain circuit development and wiring. Laura Cancedda; laura.cancedda@iit.it 5) Optogenetic modulation of gene transcription. Tutors: Fabrizia Cesca and Fabio Benfenati; fabrizia.cesca@iit.it, fabio.benfenati@iit.it 6) Closed-loop technologies for innovative neuroprostheses. Michela Chiappalone; michela.chiappalone@iit.it 7) Pathophysiology of neurodegeneration and cognitive impairment. Tutor: Andrea Contestabile; andrea.contestabile@iit.it 8) Role and interactions of small noncoding RNAs classes in mammalian adult neurogenesis. Tutor: Davide De Pietri Tonelli; davide.depietri@iit.it 9) Cellular mechanisms of perception. Tutor: Tommaso Fellin; tommaso.fellin@iit.it 10) Modeling and Molecular Dynamics simulation of neuronal proteins. Tutor: Luca Maragliano; luca.maragliano@iit.it 11) Genetics determinant of social and cognitive alterations. Tutor: Francesco Papaleo; francesco.papaleo@iit.it 12) Social/cognitive gene networks and related in vivo electrophysiological activity. Tutor: Francesco Papaleo; francesco.papaleo@iit.it 13) Functional role of the Ca <sup>2+</sup> -binding site in Synapsin I and II. Silvio Sacchetti and Fabio Benfenati; silvio.sacchetti@iit.it, fabio.benfenati@iit.it 14) Epigenetic control of behavioural and electrophysiological traits. Tutor: Valter Tucci; valter.tucci@iit.it 15) Synaptic connectivity defects in epilepsy. Tutor: Lorenzo Cingolani, lorenzo.cingolani@iit.it
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the person in charge of the Neurosciences and Neurotechnologies Curriculum, Prof. Fabio Benfenati, at the following email address: nbtphdcourse@iit.it. Please remember that the name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Further information</b>	For further information write to: nbtphdcourse@iit.it





**Course in: NEUROSCIENCES****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia)****Curriculum: MOTORY AND SPORTS ACTIVITIES SCIENCES (CODE 6199)**

<b>Coordinator:</b> Abbruzzese Giovanni	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI)	
<b>Places:</b> 8 – <b>Grants:</b> 4	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 2 grants from University/DINOGMI funds, part of the international collaboration with Vrije Universiteit Brussels, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 400,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	07/07/2016 – 10:30 am, in the Library of the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI), Largo Paolo Daneo, 3 16132 Genova
<b>Further information on how to present qualifications/publications</b>	The following will be evaluated: 1. Degree mark; 2. Personal curriculum (including the Degree dissertation); 3. Research experience and scientific publications; 4. Research programme presented by the candidate.
<b>Exam syllabus</b>	The interview will be a discussion concerning the candidate's research Programme, which will be evaluated on the basis of content originality, execution modalities, feasibility, its relevance to the themes of the field of research for which this public exam has been announced.
<b>Research themes</b>	The doctoral course will develop research lines concerning the study of: 1. motory performance, motory learning and sensorimotor integration (the kinematics of movement, postural analysis, electrophysiology of movement and of sensorimotor integration, morphologic and functional imaging); 2. sports performance (the methodological approach to sports performance, the interaction between physiological parameters and training methods, the relationship between nutrition and sports performance, the interaction between drugs and the physiology of athletic gestures).
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course: Prof. Giovanni Abbruzzese Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Largo Paolo Daneo 3, 16132 Genova. Tel. 010-3537039, Fax 010-3538631 Email: gabbruzzese@neurologia.unige.it Dott.ssa Maria Paola Fenu Email: neurologia@neurologia.unige.it
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Giovanni Abbruzzese, Dipartimento di Neuroscienze, Riabilitazione, Oftalmologia, Genetica e Scienze Materno-Infantili (DINOGMI), Largo Paolo Daneo 3, 16132 Genova. Tel. 010-3537039, Fax 010-3538631 Email: gabbruzzese@neurologia.unige.it

**Course in: SCIENCE AND TECHNOLOGY OF CHEMISTRY AND MATERIALS****In agreement with the Foundation of the Italian Institute of Technology (Fondazione Istituto Italiano di Tecnologia)****Curriculum: DRUG DISCOVERY AND NANOBIOLOGICAL TECHNOLOGIES (CODE 6204)**

<b>Coordinator:</b> Saccone Adriana	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale - DCCI)	
<b>Places:</b> 5 – <b>Grants:</b> 4 (*).	
(*) 4 grants from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 350,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Assessable qualifications/publications: 1. academic qualifications and relative marks; 2. list of exams sat during university studies with relative marks; 3. reference letters (not more than three); 4. research project written in English; 5. curriculum; 6. other optional qualifications/publications (masters, post-university qualification courses, publications in scientific journals, presentations in conferences, patents, study or research awards). All candidates must attach the certificates relative to all their study qualifications at university level, with the corresponding marks, specifying the duration of the study cycles, to their application in copies true to the original. Foreign candidates must also clearly state the number of years which correspond to each study cycle carried out previous to University enrolment. If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on specific activities described in the actual project.
<b>Research themes</b>	1. Design and synthesis of novel compounds acting as modulators of protein function. 2. Development of low-cost assays for ultrasensitive point-of-care diagnostics. 3. Extraction of polymers from natural sources for the development of functional polymer composites. 4. Development of new carriers for pharmaceuticals.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, by email only to the following address: PhD_D3@iit.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Further information</b>	Dott. Tiziano Bandiera Tel. +39 010-71781533 Email tiziano.bandiera@iit.it  Contact person in administration Dott.ssa Cecilia Cattaneo Tel. +39 010-71781442 Email cecilia.cattaneo@iit.it

<b>Coordinator:</b> Saccone Adriana	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale - DCCI)	
<b>Places:</b> 10 – <b>Grants:</b> 10 (*).	
(*) di cui 10 grants from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 350,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	<p>Assessable qualifications/publications:</p> <ol style="list-style-type: none"> <li>1. academic qualifications and relative marks;</li> <li>2. list of exams sat during university studies with relative marks;</li> <li>3. reference letters (not more than three);</li> <li>4. research project written in English;</li> <li>5. curriculum;</li> <li>6. other optional qualifications/publications (masters, post-university qualification courses, publications in scientific journals, presentations in conferences, patents, study or research awards).</li> </ol> <p>All candidates must attach the certificates relative to all their study qualifications at university level, with the corresponding marks, specifying the duration of the study cycles, to their application in copies true to the original.</p> <p>Foreign candidates must also clearly state the number of years which correspond to each study cycle carried out previous to University enrolment.</p> <p>If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on specific activities described in the actual project.</p>
<b>Research themes</b>	<ol style="list-style-type: none"> <li>1) Development of new nanoscale materials as electrodes for Lithium and Sodium ion batteries.</li> <li>2) Computational modelling of materials at the nanoscale.</li> <li>3) Development of atomic-scale designed heterogeneous catalysts for energy related catalytic processes.</li> <li>4) New materials for “green energy” production.</li> <li>5) Synthesis and optical applications of 2D nanocrystal heterostructures.</li> <li>6) Nanocrystal based light emitting devices.</li> <li>7) In vitro and in vivo characterization of magnetic-based heterostructure for biomedical applications.</li> <li>8) Science and technology of graphene-based inks for polymer-composite applications.</li> <li>9) Porous materials for detection and removal of organic substances from water</li> <li>10) Synthesis of magnetic-based heterostructure for biomedical applications</li> </ol>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, by email only to the following address: phd_nach@iit.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Further information</b>	<p>Contact person in administration</p> <p>Dr.ssa Iulia Manolache</p> <p>Tel: +39 010-71781718</p> <p>Email iulia.manolache@iit.it</p>

**Curriculum: SCIENCE AND TECHNOLOGY OF MATERIALS (CODE 6201)**

<b>Coordinator:</b> Saccone Adriana	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale - DCCI)	
<b>Places:</b> 5 – <b>Grants:</b> 4 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant funded by the Spin Institute, of the National Council of the Research on “The development of innovative superconductors for high field applications”, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 350,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	07/07/2016 – 9:00 am, at the Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale - DCCI), via Dodecaneso 31 - 16146 Genova Candidates who live more than 300 km away from Genoa may use the video-conference modality. Candidates must show an original document of identity, a copy of which will have been submitted with the online application for identification purposes. The motivated request for video-conference modality must be sent within and not beyond 29/06/2016 by email to the address: <a href="mailto:putti@fisica.unige.it">putti@fisica.unige.it</a>
<b>Further information on how to present qualifications/publications</b>	Assessable qualifications/publications: 1. academic qualifications and relative marks; 2. list of exams sat during university studies with relative marks; 3. reference letters (not more than three); 4. research project written in English; 5. curriculum; 6. other optional qualifications/publications (masters, post-university qualification courses, publications in scientific journals, presentations in conferences, patents, study or research awards). All candidates must attach the certificates relative to all their study qualifications at university level, with the corresponding marks, specifying the duration of the study cycles, to their application in copies true to the original. Foreign candidates must also clearly state the number of years which correspond to each study cycle carried out previous to University enrolment. If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on specific activities described in the actual project.
<b>Exam syllabus</b>	During the interview candidates will be requested to illustrate the research project they presented. The Examining Commission will examine content originality, feasibility and execution modalities of the Project, as well as its relevance to the research themes of this public exam, in order to evaluate the candidate's ability to develop a scientific project. Knowledge of English will also be verified during the interview.
<b>Research themes</b>	Experimental investigation and analysis of the modelling of metallic materials, ceramic, polymeric, composite, biomolecular and biocompatible materials. Correlations between methods of production (synthesis, film deposition, crystal growth), structural, morphological, and chemical-physical characteristics and functional properties will be studied. As far as functional aspects are concerned, materials for photonics and plasmons, high temperature superconductors, materials for the production and storage of hydrogen, heterogeneous catalyst materials, electronic and magnetic devices, protective coatings, biomaterials will be studied. Characterization will concern structural, electronic and morphologic properties even in the form of films and multilayers, thin and ultrathin, with regard to growth mechanisms and nanostructuring. Crystal-chemical, electrochemical, thermal, magnetic and transport properties, and the microscopic study of tribological processes will also be taken into consideration. The technological aspects of new industrial, environmental and metallurgical catalytic processes will be studied and developed. All the above-mentioned themes will be developed both in the field of basic research and that of applied research (industrial processes, sensors, devices, conservation of the cultural heritage etc.).
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, by email

	only to the following address: <a href="mailto:putti@fisica.unige.it">putti@fisica.unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Prof. Marina Putti  Tel. +390103536383  Email <a href="mailto:putti@fisica.unige.it">putti@fisica.unige.it</a></p> <p>Contact person in administration  Mrs Noemi Pretelli  Tel. +39 010-353 6161/8752  Email <a href="mailto:noemi@chimica.unige.it">noemi@chimica.unige.it</a></p>

**Curriculum: CHEMICAL SCIENCES AND TECNOLOGIES (CODE 6200)**

<b>Coordinator:</b> Saccone Adriana	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale - DCCI)	
<b>Places:</b> 8 – <b>Grants:</b> 5 (*).	
(*) 4 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant from MIUR/Boero Bartolomeo funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 350,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	06/07/2016 – 9 am at the Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale - DCCI), via Dodecaneso 31 - 16146 Genova Candidates who live more than 300 km away from Genoa may use the video-conference modality. Candidates must show an original document of identity, a copy of which will have been submitted with the online application for identification purposes. The motivated request for video-conference modality must be sent within and not beyond 27/06/2016 by email to the address: <a href="mailto:Adriana.Saccone@unige.it">Adriana.Saccone@unige.it</a>
<b>Further information on how to present qualifications/publications</b>	Assessable qualifications/publications: 1. academic qualifications and relative marks; 2. list of exams sat during university studies with relative marks; 3. reference letters (not more than three); 4. research project written in English; 5. curriculum; 6. other optional qualifications/publications (masters, post-university qualification courses, publications in scientific journals, presentations in conferences, patents, study or research awards). All candidates must attach the certificates relative to all their study qualifications at university level, with the corresponding marks, specifying the duration of the study cycles, to their application in copies true to the original. Foreign candidates must also clearly state the number of years which correspond to each study cycle carried out previous to University enrolment. If admitted to the doctoral course, the candidate will carry out his/her activity within the syllabus chosen for his/her project, but not necessarily on specific activities described in the actual project.
<b>Exam syllabus</b>	During the interview candidates will be requested to illustrate the research project they presented. The Examining Commission will examine content originality, feasibility and execution modalities of the Project, as well as its relevance to the research themes of this public exam, in order to evaluate the candidate's ability to develop a scientific project. Knowledge of English will also be verified during the interview.
<b>Research themes</b>	<ol style="list-style-type: none"> <li>1. Chemistry and Physical Chemistry of photoactive materials</li> <li>2. Nanoparticles for technological applications</li> <li>3. Synthesis and study of crystal-chemical, thermal properties, magnetic and transport of oxides, nitrides and carbides</li> <li>4. Quantum study of the electronic/optoelectronic properties of interacting molecular systems</li> <li>5. Determination of chemical species of environmental and oceanographic interest</li> <li>6. Development of chromatographic innovative methodologies coupled with mass spectrometry</li> <li>7. Analytical studies concerning the employment of techniques of atomic spectrometry</li> <li>8. Chemical, enzymatic and organocatalytic synthesis of biologically active compounds</li> <li>9. Synthesis and reactivity of heterocyclic compounds</li> <li>10. Phase equilibria and thermodynamics of metallic materials: experimental and theoretical aspects</li> <li>11. Intermetallic compounds: synthesis, structure, properties and technological applications</li> <li>12. Advanced metallic materials</li> <li>13. Polymeric materials, hybrids and nanocompounds</li> <li>14. Polymeric nanostructures for photonics</li> <li>15. Membranes and membrane processes</li> <li>16. Chemistry for the study and preservation of the cultural heritage</li> </ol>

	17. Improvement of the performance of paint products used in the yachting sector and development of new formulae using innovative raw materials
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, by email only to the following address: Adriana.Saccone@unige.it. The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Prof. Adriana Saccone  Tel. +39 010-3536154  Email Adriana.Saccone@unige.it</p> <p>Prof. Renata Riva  Tel. +39 010-3536106  Email Renata.Riva@unige.it</p> <p>Contact person in administration: Mrs Noemi Pretelli  Tel. +39 010-353 6161/8752  Email noemi@chimica.unige.it</p>

**Curriculum: PHARMACEUTICAL, NUTRITIONAL AND COSMETIC SCIENCES (CODE 6202)**

<b>Coordinator:</b> Saccone Adriana	
Department of Chemistry and Industrial Chemistry (Dipartimento di Chimica e Chimica Industriale - DCCI)	
<b>Places:</b> 6 – <b>Grants:</b> 4 (*).	
(*) 4 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.368,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 350,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – ore 9:00 am, at the Department of Pharmacy (Dipartimento di Farmacia - DIFAR, former venue of DISCIFAR), viale Benedetto XV, 3 - 16132 Genova. Candidates who live more than 300 km away from Genoa may use the video-conference modality. Candidates must show an original document of identity, a copy of which will have been submitted with the application for identification purposes. The motivated request for video-conference modality must be sent within and not beyond 23/06/2016 by email.
<b>Further information on how to present qualifications/publications</b>	Besides the usual qualifications/publications, the following are also required: 1. A Curriculum vitae et studiorum duly signed. It must comprise information on the name/type and mark of the degree or an equivalent qualification (except for final year students who have enrolled conditionally), the title and a brief description of the thesis (where requested), as well as a list of exams and relative marks. The CV may be written in Italian or in English. 2. A signed research project concerning the research theme of the doctoral course object of the application; 3. Any other qualifications/publications, certifications, deemed useful for admission (optional).
<b>Exam syllabus</b>	Basic knowledge of Pharmaceutical and Toxicological Chemistry, Pharmaceutical Technology, Chemiometry, Organic and Macromolecular Chemistry, Phytochemistry, Pharmacognosy, the Chemistry of Cosmetic Products, Foods Chemistry and Chemistry of Diet Products. Discussion of the degree dissertation and the research themes proposed.
<b>Research themes</b>	1. Study of active principles of natural origin and their structural modifications. 2. Design, synthesis and evaluation of the biologic activity of compounds of potential therapeutic interest such as antineoplastic and antiviral drugs. 3. Design, synthesis and evaluation of the biological activity of compounds with potential action on the cardiovascular system. 4. Rational design and synthesis of new compounds with anti-infective activities, with special reference to anti-tuberculosis activity. 5. Advanced computational methodological applications for the study of the ligando-receptor and ligando-enzyme interaction at molecular level. 6. Food and diet food safety: singling out of beneficial and harmful substances. 7. Micro and nanostructured functional copolymers of biochemical and pharmaceutical interest, dendrimetric systems functionalized for use in nanomedicine. 8. Design and development of nanodispersion and microdispersion systems or with bioadhesive matrix, for drug delivery and drug targeting. 9. Development of chemometric methods and applications. Multivariate calibration for spectrometry, electronic nose and tongue. Experimental design. 10. Search for biologically active phytoconstituents. 11. Study of biogeochemical cycles of trace elements: presence, distribution and bioaccumulation in living organisms. 12. Application of microwave technology in organic and inorganic synthesis and methodologies of reaction without solvent as “Green Chemistry” procedures. 13. Application of microwaves for the preparation of the analytical sample in the study of active principles of botanical origin and in the analysis of cosmetic products.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, by email only to the following address: <a href="mailto:silvia@difar.unige.it">silvia@difar.unige.it</a> . The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English



<b>Further information</b>	<p>Prof. Silvia Lanteri  Tel. +39 010-3532634  Email <a href="mailto:silvia@difar.unige.it">silvia@difar.unige.it</a></p> <p>Contact person in administration  Mrs Noemi Pretelli  Tel. +39 010-3536161/8752  Email <a href="mailto:noemi@chimica.unige.it">noemi@chimica.unige.it</a></p>
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<b>Coordinator:</b> Firpo Marco	
Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita - DISTAV)	
<b>Places:</b> 5 <sup>(°)</sup> – <b>Grants:</b> 3 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant funded by DISTAV, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>(°) 1 place reserved for grant holders from a foreign country</b>	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6 and 7 July 2016, 9.30 am, in Room Perrier (Aula Perrier) of the Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della terra, dell'ambiente e della vita – DISTAV), Corso Europa 26 - 16132 Genova. On request, the interview may also be done using computers (video conference via SKYPE) by contacting the person responsible for this curriculum in time: Prof. Mauro Mariotti Dipartimento di Scienze della Terra, dell'ambiente e della Vita (DISTAV) Telephone: (+39) 0102099376 E-mail: <a href="mailto:m.mariotti@unige.it">m.mariotti@unige.it</a> Cell. 3280170320
<b>Further information on how to present qualifications/publications</b>	At the risk of exclusion, candidates, in order to access the curriculum, must indicate only one of the three research themes highlighted in the public notice and attach a project on the same theme. The project will also be evaluated for its feasibility. Please note that the choice of the theme of the research project will not change the graduate student's legal status concerning the object of the research activity that will be carried out during the doctoral course, according to the Teaching Body's indications. By qualifications/publications reference is made to the information in the application and in the attached documents. At the risk of exclusion the following documents must be attached to the application: a) a curriculum vitae et studiorum (not more than 10 pages); b) a research project concerning one of the three themes of the doctoral course the application is for (not more than 10 pages); c) a document containing the title of the thesis and a brief description of it, as well as a list of exams sat with the relative marks; d) any other qualifications/publications relevant to the research thematics of the course (not more than 10 pages); e) a minimum of one to a maximum of three reference letters. Besides English and Italian, candidates can send their applications and the attached documents in Spanish or French.
<b>Research themes</b>	The doctoral course (curriculum in Biology applied to agriculture and the environment) will deal with the following four research themes: 1) Flora climate change. Adaptation mechanisms to climate change. Study of the adaptation and of the phenotypic plasticity in plants in relation to their capacity to survive in a changing environment. Comprehension of the role of phenotypic plasticity as necessary information to foresee how, in the future, alpine plants will respond to global warming or other environmental changes. 2) Biology, ecology and conservation of amphibian populations. Study aimed in particular at the knowledge of the dynamics and structure of the population, of the relations with the habitats, of the prey-predator relations, of the models of potential diffusion and/or of estimates of the consistency of the population with hierarchical models. 3) Evaluation of the protective, anti-inflammatory and anti-steatosis effects of extracts and/or molecules of natural origin, with possible reference also to the use of the regulation of cellular activity. 4) Investigations on the relations among regional agricultural and food product and territorial characteristics aimed at the evaluation, selection and enhancement of products with low levels of allergenicity. Themes 1, 2 and 3 are backed by a grant; theme 4 is not backed by a grant.
<b>Information on references</b>	All reference letters must be sent in "pdf" format directly by the signee to the address of the person in charge of the curriculum, prof. Mauro Mariotti ( <a href="mailto:m.mariotti@unige.it">m.mariotti@unige.it</a> ), within the

	<p>deadline of the application for the public notice. The referees must be university professors or experts in the subject.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	English, French, Spanish.
<b>Further information</b>	<p>Prof. Mauro Mariotti</p> <p>Polo Botanico Hanbury, Dipartimento di Scienze della Terra, dell'Ambiente e della Vita,</p> <p>Corso Dogali 1M, 16126 Genova</p> <p>Email m.mariotti@unige.it</p> <p>Cell.3280170320</p>

<b>Coordinator:</b> Firpo Marco	
Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita - DISTAV)	
<b>Places:</b> 6 <sup>(°)</sup> – <b>Grants:</b> 3 (*).	
(°) 1 place without grant reserved for graduates from foreign Universities	
(°) 1 place reserved to grant holders within the International Training Network Marie Curie Project (H2020-MSCA-ITN), PANDORA: Probing safety of nano-objects by defining immune responses of environmental organisms.	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 borse from MIUR/DISTAV funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(°) 1 place reserved for grant holders from a foreign country	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6 and 7 July 2016, 9.30 am, in Room Perrier (Aula Perrier) of the Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della terra, dell'ambiente e della vita – DISTAV), Corso Europa 26 - 16132 Genova. On request, the interview may also be done using computers (video conference via SKYPE) by contacting the person responsible for this curriculum in time: Prof. Roberto Pronzato Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) Telephone:(+39) 010 353 - 8177 Email:pronzato@dipteris.unige.it
<b>Further information on how to present qualifications/publications</b>	Please note that the choice of the theme of the research project will not change the graduate student's legal status concerning the object of the research activity that will be carried out during the doctoral course, according to the Teaching Body's indications. By qualifications/publications reference is made to the information in the application and in the attached documents. The following documents must be attached to the application: a) a curriculum vitae et studiorum (not more than 10 pages); b) a research project concerning one of the three themes of the doctoral course the application is for (not more than 10 pages); c) a document containing the title of the thesis and a brief description of it, as well as a list of exams sat with the relative marks; d) any other qualifications/publications relevant to the research thematics of the course (not more than 10 pages); e) a minimum of one to a maximum of three reference letters. Besides English and Italian, candidates can send their applications and the attached documents in Spanish or French.
<b>Exam syllabus</b>	The interview will concern both an indepth discussion of the activities carried out by the Candidate and his/her command of the work instruments/tools and the experimental methods relative to the field of research foreseen in the project presented.
<b>Research themes</b>	The research themes can be summarized as follows: a) The study of marine biodiversity and its distribution and conservation. Description of the structure, dynamics and interactions of benthic and planktonic communities. Study of the plankton communities and trophic state of the water column. b) Study of the biology of fish species and of the great pelagic organisms. c) Study of the different aspects of the physiology of organisms and their interactions also in relation to the multiple environmental variables. d) Influence of endogenous, environmental and anthropogenic factors on the health of organisms. e) Study and characterization of natural compounds (e.g. secondary metabolites from marine organisms). Biotechnological aspects. f) Marine geology and geomorphology and analysis and management of coastal areas. Study of climate change effects at basin level on Mediterranean communities. Study of alien species. Ecology of toxic microalgae. g) Study of the effects of climate change on marine communities. Alien species. Ecology of toxic microalgae. h) Experimental aquaculture and stress factors in bred organisms. i) Development of protocols, techniques and instruments for the environmental management of marine areas (software and hardware).

	<p>e) Evaluation of the biological responses to persistent and emerging pollutants on organisms and communities in the scenario of global climate change. Use and development of environmental stress biomarkers in sentinel organisms in biomonitoring programmes for the evaluation of the state of health of the coastal marine environment.</p> <p>l) abiotic factors and fluxes of matter and energy in the ecosystem.</p>
<b>Information on references</b>	<p>All reference letters must be sent in “pdf” format directly by the signee to the address of the person in charge of the curriculum, Prof. Roberto Pronzato (pronzato@dipteris.unige.it) , within the deadline of the application for the public notice. The referees must be university professors or experts in the subject.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Prof. Roberto Pronzato  Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV)  Tel. +39 010-3538177  Email pronzato@dipteris.unige.it</p>

<b>Coordinator:</b> Firpo Marco	
Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della Terra, dell'Ambiente e della Vita - DISTAV)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	6 and 7 July 2016, 9.30 am, in Room Perrier (Aula Perrier) of the Department of Earth, Environmental and Life Sciences (Dipartimento di Scienze della terra, dell'ambiente e della vita – DISTAV), Corso Europa 26 - 16132 Genova. On request, the interview may also be done using computers (video conference via SKYPE) by contacting the person responsible for this curriculum in time: Prof. Marco Firpo Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV) Telephone:(+39) 010353 – 8272 Email: firpo@dipteris.unige.it Cell. 3201812987
<b>Further information on how to present qualifications/publications</b>	Please note that the choice of the theme of the research project will not change the graduate student's legal status concerning the object of the research activity that will be carried out during the doctoral course, according to the Teaching Body's indications. By qualifications/publications reference is made to the information in the application and in the attached documents. The following documents must be attached to the application: a) a curriculum vitae et studiorum (not more than 10 pages); b) a research project concerning one of the three themes of the doctoral course the application is for (not more than 10 pages); c) a document containing the title of the thesis and a brief description of it, as well as a list of exams sat with the relative marks; d) any other qualifications/publications relevant to the research thematics of the course (not more than 10 pages); e) a minimum of one to a maximum of three reference letters. Besides English and Italian, candidates can send their applications and the attached documents in Spanish or French.
<b>Research themes</b>	The research themes of the syllabus are oriented at describing and interpreting endogenous and exogenous processes of the system Earth, integrating the vast spectrum of geosciences (disciplinary fields such as geology, geomorphology, mineralogy, crystallography, geochemistry, structural geology, petrology, mining geology, stratigraphy, paleontology, geophysics). The main objective of the syllabus is to create professional figures and young researchers capable of using advanced scientific competences and analytical frontier technologies to describe and model the processes that regulate endogenous and exogenous earth dynamics, as well as lithosphere-biosphere and lithosphere-hydrosphere interactions. The research themes can be summarized in detail in the following points: 1) study and modelling of the chemical and tectonic evolution of the lithosphere in convergent and extensional environments; 2) study of the processes responsible for the genesis and evolution of the land relief forms; 3) finding and use of natural resources (water, energy producing, mineral and lithoid), and the management and enhancement of the relative residues; 4) evaluation and mitigation of the geological and geoenvironmental risks deriving from catastrophic events both natural and anthropic; 5) territorial defence and planning; 6) conservation of the natural-landscape, archaeological-monument heritage and the cultural heritage; 7) determining and forecasting geomaterial behaviour (minerals and rocks) at various temperatures and pressures as a contribution to the solution of both scientific and applicable problems; 8) interdisciplinary study of the interaction of mineral phases with the biosphere and the consequent releasing, transport and capturing processes of organic and inorganic chemical species.
<b>Information on references</b>	All reference letters must be sent in "pdf" format directly by the signee to the address of the person in charge of the curriculum, prof. Marco Firpo (firpo@dipteris.unige.it), within the

	<p>deadline of the application for the public notice. The referees must be university professors or experts in the subject.</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Prof. Marco Firpo</p> <p>Dipartimento di Scienze della terra, dell'ambiente e della vita (DISTAV)</p> <p>Tel. +39 010-3538272</p> <p>Email <a href="mailto:firpo@dipteris.unige.it">firpo@dipteris.unige.it</a></p> <p>Cell. 3201812987</p>

**Curriculum: ELECTRICAL ENGINEERING (CODE 6208)**

<b>Coordinator:</b> Massucco Stefano	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN)	
<b>Places:</b> 7 (°) – <b>Grants:</b> 5 (*).	
(°) 1 place reserved to grant holders within the International Training Network Marie Curie Project MEAN4SG,ESR 6. Postgraduate Research on Virtual Power Plant applications development of replicable solutions for optimal management of distributed energy resources at customer sites. Reference Industry: Enel. This selection is available on EURAXESS announcements: <a href="http://ec.europa.eu/euraxess/index.cfm/jobs/index">http://ec.europa.eu/euraxess/index.cfm/jobs/index</a> <input type="checkbox"/> keyword ENEL	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant funded by ABB-SACE, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant funded by DITEN based on funds from Phase Motion Control S.p.A., the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 300,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS
<b>Further information on how to present qualifications/publications</b>	Candidates must present: 1) a research project maximum 10 pages; 2) an updated CV; 3) a brief abstract of the specialist degree thesis. Foreign candidates who have not yet got their degree must present a list of exams they did for their 5-year degree course with the marks.
<b>Research themes</b>	(A) Automation: industrial, of processes and transport. Models of producer plants. Management, monitoring and control of electrical systems. Innovative techniques and optimization for the design of electromagnetic devices. Electrical working for robotics, manufacturing automation and processes. Advanced applications of instruments and camp buses. (B) Energy: Protection against electrostatic hazards. Evaluation of isolation defects with measurement of partial discharges. Technical and economic evaluations for market energy. Distributed generation. Service quality. Design of switches, machines, electrical actuator and magnetic devices for energy storage. Static energy convertors. (C) Electronics: Model systems and electronic power components. Advanced control techniques for converters. Advanced control techniques against electrostatic discharges from electronic devices. Models of complex systems. Analysis and synthesis of circuits and non linear dynamic systems. Neural networks. Electronic systems design. (D) Industrial electromagnetic compatibility: electromagnetic compatibility among electrical, power electronic and communications systems. Models, simulations and measuring methods. Numeric current (electrical) models of lightning. Electromagnetic models with full Maxwell approach. (E) Transport: Systems for the management and control of traffic. Models for RAMS forecasting analysis. Electrified systems for public transport. Energy management of electric and hybrid vehicles. Diagnostics of electric traction engines. Electrical working for traction on rail, wheels and for marine propulsion. (F) Environment: Numeric simulation and measuring and field reduction techniques. Optimized design of low emission devices. Low environmental impact systems.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: <a href="mailto:stefano.massucco@unige.it">stefano.massucco@unige.it</a> The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Further information</b>	Prof. Stefano Massucco Email: <a href="mailto:stefano.massucco@unige.it">stefano.massucco@unige.it</a> Tel: +39 010-3532718 fax: +39 010-3532700  Emanuela De Pasquale Email: <a href="mailto:emanuela.depasquale@unige.it">emanuela.depasquale@unige.it</a> Tel: +39 010-35327005



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**Curriculum: MARINE ENGINEERING (CODE 6209)**

<b>Coordinator:</b> Massucco Stefano	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 300,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview:</b>	08/07/2016 – 10:00 am, at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN), Polo Navale, via Montallegro 1, 16145 Genova On request, the interview may also be done using computers (video conference via SKYPE) by contacting the coordinator of the doctoral course dottorato Prof. Dario Bruzzone (Email: dario.bruzzone@unige.it at least a week before.
<b>Further information on how to present qualifications/publications</b>	Candidates must present: 1) a research project maximum 10 pages; 2) an updated CV; 3) a brief abstract of the specialist degree thesis. Foreign candidates who have not yet got their degree must present a list of exams they did for their 5-year degree course with the marks.
<b>Research themes</b>	Marine Architecture Sector: Study and application of methods to evaluate movements of the ship, of the dynamic cargoes and of the added resistance; Study and application of experimental and numeric methods for the manoeuvrability of the ship; SPH methods for the simulation of non-stationary hydrodynamic fluxes with free surface; Study of cavitating phenomena of marine propellers and of their effect in terms of induced pressure and radiated noise; Development of solutions for viscous flows related to ships on the basis of open source libraries; Study and development of design methods for special propellers; Dynamic analysis of the performance of propelling systems and of marine plants with simulation techniques; Optimization of the ship's hydrodynamic performances and ship safety; Rolling motion control devices; Study of the hydrodynamic performances of innovative marine vehicles. Marine Constructions and Plants Sector: Study and design of offshore floating wind turbines; Fatigue of ship structures and components; Study of marine structures in composite materials; Probabilistic methods for marine constructions; Reliability of marine structures and risk analysis; Study of sea-river vectors for internal navigation and in protected waters; Design and construction methods to increase competitiveness in national shipbuilding; Condition monitoring of plants and management of marine maintenance; Simulation and optimization of marine propelling systems; Fluid-structure interaction: applications in marine engineering with possible reference to sailing systems; Activations for marine systems.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following email address: dario.bruzzone@unige.it
<b>Foreign languages:</b>	English
<b>Further information</b>	Prof. Dario Bruzzone University of Genova DITEN (Department of Electrical, Electronics and Telecommunication Engineering and Naval Architecture), Polo Navale, Via Montallegro 1, I-16145 - Genova, Italy Email: Dario.Bruzzone@unige.it Tel: +39-010-353-2427; fax: +39-010-353-2700; Emanuela De Pasquale emanuela.depasquale@unige.it; tel: +39-010-35327005; fax: +39-010-3532700

**Curriculum: INTERACTIVE COGNITIVE ENVIRONMENTS (CODE 6212)**

<b>Coordinator:</b> Marchese Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN)	
<b>Places:</b> 2 – <b>Grants:</b> 1 (*).	
(*) 1 grant from MIUR/DITEN funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	06/07/2016 – ore 9:00 am, at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN), Via Opera Pia 11A – 16145 Genova. The interviews may also be done using computers via Skype with video to verify the identity by contacting the Coordinator of the Doctoral Course, Prof. Mario Marchese, by email at the address mario.marchese@unige.it and at the address: phd-stiet@diten.unige.it, inserting in the request one's Skype address.
<b>Further information on how to present qualifications/publications</b>	In presenting their CV, it is important for candidates to highlight the following features as they will be used as evaluative parameters: publications done (e.g. in International Journals, International Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained, work experience and acquired skills. It is also important for candidates to highlight the following features when presenting their research project as they will be used as evaluative parameters: Relevance to the themes of the field of research for which this public exam has been announced, Originality, Execution modalities, Feasibility, Clear presentation/exposition.
<b>Exam syllabus</b>	The interview aims at evaluating the candidates' competences in relation to the research themes listed and methodological abilities to face research problems. Furthermore, the interview will also deal with the thematic of the research project presented by the candidate.
<b>Research themes</b>	<ol style="list-style-type: none"> <li>1. Systems and methods for data aggregation and information extraction from heterogeneous and multidimensional source signals</li> <li>2. Study and development of biometrics systems based on open source hardware that implement algorithms derived by the analysis of biometrics measurements from the field.</li> <li>3. Study and development of methodologies for big data analysis for intelligent transportation systems. Design of a system to support transition to autonomous driving.</li> <li>4. Compressed sensing based approach for dynamic opportunistic transmission in cognitive radio devices: algorithms and methods based on compressed sensing theory as enabler for cognitive radio terminals for opportunistic spectrum usage to optimize transmission rate and external attack robustness</li> <li>5. Dynamic Bayesian networks for heterogeneous signal processing for modeling, understanding and recognizing anomalous events in crowded environments: signal processing techniques to understand crowd dynamics and detecting potentially dangerous situations</li> <li>6. Computational electromagnetics: study and development of reliable and innovative methods for the solution of electromagnetic problems related to direct and inverse scattering, guided propagation and antennas.</li> <li>7. Highly robust and reliable embedded integrated systems for flexible electronic systems.</li> <li>8. Dedicated Digital Integrated Systems for the development of Electro-Optical interfaces of Iper Capacity and Low Power Consumption Optical Fiber Transmission.</li> <li>9. Performance analysis, energy consumption and resource allocation for virtualized network functions: allocation of computational resources to improve the performances and energy consumption of the dedicated servers.</li> <li>10. Design and development of components for service-based serious games, with a special focus on natural Human-Computer Interaction.</li> <li>11. ICT solutions for Power Systems.</li> <li>12. Electromagnetic modeling in the development and optimisation of different devices to support bone regeneration.</li> </ol>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: mario.marchese@unige.it

	<p>phd-stiet@diten.unige.it</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p> <p>The candidates' aptitude for scientific research must clearly transpire from the content of the reference letters.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Prof. Mario Marchese</p> <p>DITEN</p> <p>Università di Genova, Via Opera Pia 13</p> <p>16145, Genova, Italy</p> <p>Email mario.marchese@unige.it</p> <p>Tel.+39-0103536571 (office)</p> <p>Ufficio Didattica del Dipartimento DITEN</p> <p>Ufficio Didattica</p> <p>DITEN – Università di Genova</p> <p>Via Opera Pia 13</p> <p>16145, Genova, Italy</p> <p>Email phd-stiet@diten.unige.it</p>

**Curriculum: ELECTROMAGNETISM, ELECTRONICS, TELECOMMUNICATIONS (CODE 6211)**

<b>Coordinator:</b> Marchese Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN)	
<b>Places:</b> 7 – <b>Grants:</b> 5 (*).	
(*) 4 grants from MIUR/DITEN funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
(*) 1 grant based on funds from Ansaldo STS S.p.A., the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	07/07/2016 – 9:00 am, at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN), Via Opera Pia 11A – 16145 Genova. The interviews may also be done using computers via Skype with video to verify the identity by contacting the Coordinator of the Doctoral Course, Prof. Mario Marchese, by email at the address mario.marchese@unige.it and at the address: phd-stiet@diten.unige.it, inserting in the request one's Skype address.
<b>Further information on how to present qualifications/publications</b>	In presenting their CV, it is important for candidates to highlight the following features as they will be used as evaluative parameters: publications done (e.g. in International Journals, International Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained, work experience and acquired skills. It is also important for candidates to highlight the following features when presenting their research project as they will be used as evaluative parameters: Relevance to the themes of the field of research for which this public exam has been announced, Originality, Execution modalities, Feasibility, Clear presentation/exposition.
<b>Exam syllabus</b>	The interview aims at evaluating the candidates' competences in relation to the research themes listed and methodological abilities to face research problems. Furthermore, the interview will also deal with the thematics of the research project presented by the candidate.
<b>Research themes</b>	<ol style="list-style-type: none"> <li>1. Systems and methods for data aggregation and information extraction from heterogeneous and multidimensional source signals</li> <li>2. Study and development of biometrics systems based on open source hardware that implement algorithms derived by the analysis of biometrics measurements from the field.</li> <li>3. Study and development of methodologies for big data analysis for intelligent transportation systems. Design of a system to support transition to autonomous driving.</li> <li>4. Compressed sensing based approach for dynamic opportunistic transmission in cognitive radio devices: algorithms and methods based on compressed sensing theory as enabler for cognitive radio terminals for opportunistic spectrum usage to optimize transmission rate and external attack robustness</li> <li>5. Dynamic Bayesian networks for heterogeneous signal processing for modeling, understanding and recognizing anomalous events in crowded environments: signal processing techniques to understand crowd dynamics and detecting potentially dangerous situations</li> <li>6. Computational electromagnetics: study and development of reliable and innovative methods for the solution of electromagnetic problems related to direct and inverse scattering, guided propagation and antennas.</li> <li>7. Highly robust and reliable embedded integrated systems for flexible electronic systems.</li> <li>8. Dedicated Digital Integrated Systems for the development of Electro-Optical interfaces of Iper Capacity and Low Power Consumption Optical Fiber Transmission.</li> <li>9. Performance analysis, energy consumption and resource allocation for virtualized network functions: allocation of computational resources to improve the performances and energy consumption of the dedicated servers.</li> <li>10. Design and development of components for service-based serious games, with a special focus on natural Human-Computer Interaction.</li> <li>11. ICT solutions for Power Systems.</li> <li>12. Electromagnetic modeling in the development and optimisation of different devices to support bone regeneration.</li> </ol>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address:

	<p>mario.marchese@unige.it  phd-stiet@diten.unige.it</p> <p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p> <p>The candidates' aptitude for scientific research must clearly transpire from the content of the reference letters.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Further information  Prof. Mario Marchese  DITEN – Università di Genova, Via Opera Pia 13  16145, Genova, Italy  Email mario.marchese@unige.it  Tel +39-0103536571 (office)</p> <p>Ufficio Didattica del Dipartimento DITEN Ufficio Didattica  DITEN – Università di Genova, Via Opera Pia 13  16145, Genova, Italy  Email phd-stiet@diten.unige.it</p>

**Curriculum: COMPUTATIONAL VISION, AUTOMATIC RECOGNITION AND LEARNING (CODE 6213)**

<b>Coordinator:</b> Marchese Mario	
Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN)	
<b>Places:</b> 8 – <b>Grants:</b> 7 (*).	
(*) 7 grants from the Foundation of the Italian Institute of Technology, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 16.500,00	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	11/07/2016 – 9:00 am, at the Department of Marine, Electrical, Electronic and Telecommunications Engineering (Dipartimento di Ingegneria navale, elettrica, elettronica e delle telecomunicazioni - DITEN), Via Opera Pia 11A – 16145 Genova. The interviews may also be done using computers via Skype, with video to verify the identity, by contacting the Coordinator of the Doctoral Course, Prof. Mario Marchese, by email at the address <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a> and at the address: <a href="mailto:phd-stiet@diten.unige.it">phd-stiet@diten.unige.it</a> , inserting in the request one's Skype address.
<b>Further information on how to present qualifications/publications</b>	In presenting their CV, it is important for candidates to highlight the following features as they will be used as evaluative parameters: publications done (e.g. in International Journals, International Conferences, Book Chapters), the degree mark (or equivalent qualification) obtained, work experience and acquired skills. It is also important for candidates to highlight the following features when presenting their research project as they will be used as evaluative parameters: Relevance to the themes of the field of research for which this public exam has been announced, Originality, Execution modalities, Feasibility, Clear presentation/exposition. In particular, the research project must be drawn up following the guidelines contained in a document attached and available at the following address: <a href="https://pavisdata.iit.it/data/phd2016/ResearchProjectTemplate.pdf">https://pavisdata.iit.it/data/phd2016/ResearchProjectTemplate.pdf</a>
<b>Exam syllabus</b>	The interview aims at evaluating the candidates' competences in relation to the research themes listed and methodological abilities to face research problems. Furthermore, the interview will also deal with the thematics of the research project presented by the candidate.
<b>Research themes</b>	Theme A Computer vision for behavioral analysis and activity recognition Theme B Computer vision for the prediction of human intentions Theme C Part-based human body modeling for Socially-Aware Computer Vision Theme D Crowd behavioral analysis and event recognition Theme E Re-identification Theme F Time-lapse Computer Vision for long-term learning Theme G Semantic 3D scene reconstruction and modelling Theme H Sensing humans: enhancing social abilities of the iCub platform Theme I Biomedical imaging Theme L Connectomics Theme M Animal behavior analysis Maggior dettaglio sui temi specifici saranno presentati in un documento allegato e disponibile al seguente indirizzo: <a href="https://pavisdata.iit.it/data/phd2016/ResearchThemes_IIT-PAVIS.pdf">https://pavisdata.iit.it/data/phd2016/ResearchThemes_IIT-PAVIS.pdf</a>
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course at the following address: <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a> <a href="mailto:phd-stiet@diten.unige.it">phd-stiet@diten.unige.it</a>

	<p>The name, status and service place of the referees chosen by the candidates must be stated in their applications.</p> <p>The candidates' aptitude for scientific research must clearly transpire from the content of the reference letters.</p>
<b>Foreign languages</b>	English
<b>Further information</b>	<p>Prof. Mario Marchese  DITEN – Università di Genova  Via Opera Pia 13 16145, Genova, Italy  Email <a href="mailto:mario.marchese@unige.it">mario.marchese@unige.it</a>  Tel. +39-0103536571 (office)</p> <p>Ufficio Didattica del Dipartimento DITEN  Ufficio Didattica  DITEN – Università di Genova Via Opera Pia 13 16145, Genova, Italy  Email <a href="mailto:phd-stiet@diten.unige.it">phd-stiet@diten.unige.it</a></p>



<b>Coordinator:</b> Ravazzolo Roberto	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOEMI)	
<b>Places:</b> 2 – <b>Grants:</b> 2 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant based on funds from MIUR/DIMES, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 100,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 2:00 pm, in the Museum Room (Sala Museo) of the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOEMI), Wing 16 (Padiglione 16), G. Gaslini Institute (Istituto G. Gaslini), first floor, Via G. Gaslini, 5 – 16147 Genova
<b>Exam syllabus</b>	Contents of the interview: - previous research experience, including research carried out for the degree dissertation; - ideas for projects; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English.
<b>Research themes</b>	In-depth study of new methods to diagnose and treat endocrine and metabolic pathologies in children and adolescents, with special attention to diseases of the hypothalamus and hypophysis which concern the network of the complex endocrine metabolic system, to the pathologies of the median line associated to endocrine pathologies and to the various organ diseases, including diabetes mellitus.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Roberto Ravazzolo Email: rravazzo@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Roberto Ravazzolo Email rravazzo@unige.it

<b>Coordinator:</b> Ravazzolo Roberto	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOEMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*)	
(*) 1 grant from the Giannina Gaslini Institute, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 100,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 2:00 pm, in the Museum Room (Sala Museo) of the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOEMI), Wing 16 (Padiglione 16), G. Gaslini Institute (Istituto G. Gaslini), first floor, Via G. Gaslini, 5 – 16147 Genova
<b>Exam syllabus</b>	Contents of the interview: - previous research experience, including research carried out for the degree dissertation; - ideas for projects; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English.
<b>Research themes</b>	- New knowledge concerning the human genome, including investigations with new technologies; - Identification of disease genes, their mutations, their consequences in the disease mechanism at a molecular and cellular level and correlations with the clinical phenotype; - Singling out of specific aspects of the pathogenic mechanisms that can become the targets for therapeutic approaches; - Gene structure and control of gene expression.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Roberto Ravazzolo Email: rravazzo@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Roberto Ravazzolo Email rravazzo@unige.it

**Curriculum: MUSCULAR, NEURODEGENERATIVE AND METABOLIC DISEASES IN CHILDREN AND ADOLESCENTS (CODE 6216)**

<b>Coordinator:</b> Ravazzolo Roberto	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1 (*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 100,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 2:00 pm, in the Museum Room (Sala Museo) of the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI), Wing 16 (Padiglione 16), G. Gaslini Institute (Istituto G. Gaslini), first floor, Via G. Gaslini, 5 – 16147 Genova
<b>Exam syllabus</b>	Contents of the interview: - previous research experience, including research carried out for the degree dissertation; - ideas for projects; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English.
<b>Research themes</b>	In-depth study of new methods to prevent, diagnose and treat neuropediatric pathologies in children and adolescents, with special attention to neuromuscular diseases, neurodegenerative, neuro-metabolic and in general gene-metabolic pathologies, to epilepsies of genetic origin in childhood which may involve neurosurgery, to the defects of the neural tube and of cortical migration and to neurofibromatosis.  Molecular and environmental factors of the development of the nervous system are studied, as well as the etiological and pathogenetic aspects of congenital hypotonia, primitive myopathies, spinal muscular atrophies, mitochondrial encephalopathies, leukoencephalopathies, epileptic encephalopathies and metabolic encephalopathies.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Roberto Ravazzolo Email: rravazzo@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Roberto Ravazzolo Email rravazzo@unige.it

<b>Coordinator:</b> Ravazzolo Roberto	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI)	
<b>Places:</b> 1 – <b>Grants:</b> 1	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	100,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 2:00 pm, in the Museum Room (Sala Museo) of the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI), Wing 16 (Padiglione 16), G. Gaslini Institute (Istituto G. Gaslini), first floor, Via G. Gaslini, 5 – 16147 Genova
<b>Exam syllabus</b>	Contents of the interview: - previous research experience, including research carried out for the degree dissertation; - ideas for projects; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English.
<b>Research themes</b>	Isolated malformation pathology or inserted in syndromic pictures; pathology of foetal development and maturation of the foetus and of the consequent adaptive capacities at the moment of birth; placental pathology linked to preterm deliveries and to serious premature births; foetal, neonatal and paediatric cardiovascular pathology; neonatal neurological damage; dysplastic and teratomatous pathology; neoplastic pathology.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Roberto Ravazzolo Email: rravazzo@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Roberto Ravazzolo Email rravazzo@unige.it

## Curriculum: PAEDIATRIC RHEUMATOLOGY (CODE 6218)

<b>Coordinator:</b> Ravazzolo Roberto	
Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI)	
<b>Places:</b> 2 – <b>Grants:</b> 1(*).	
(*) 1 grant from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 100,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND INTERVIEW
<b>Interview</b>	05/07/2016 – 2:00 pm, in the Museum Room (Sala Museo) of the Department of Neurosciences, rehabilitation, ophthalmology, genetics and mother and child sciences (Dipartimento di Neuroscienze, riabilitazione, oftalmologia, genetica e scienze materno-infantili - DINOGMI), Wing 16 (Padiglione 16), G. Gaslini Institute (Istituto G. Gaslini), first floor, Via G. Gaslini, 5 – 16147 Genova
<b>Exam syllabus</b>	Contents of the interview: - previous research experience, including research carried out for the degree dissertation; - ideas for projects; - knowledge of basic methodologies for clinical and laboratory research; - knowledge of English.
<b>Research themes</b>	In-depth study of new methods for the diagnosis and treatment of paediatric rheumatic disease, with special attention concerning Juvenile Idiopathic Arthritis and other diseases of autoimmune origin and autoinflammatory syndromes.
<b>Information on references</b>	Candidates must choose not less than one and not more than three referees to support their candidature. These referees must be university professors or experts in the subject and it will be their concern to send reference letters, within the deadline of the public notice, to the Coordinator of the Doctoral Course Prof. Roberto Ravazzolo Email: rravazzo@unige.it The name, status and service place of the referees chosen by the candidates must be stated in their applications.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Roberto Ravazzolo Email rravazzo@unige.it

<b>Coordinator:</b> Palumbo Mauro	
Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR)	
<b>Places:</b> 4 – <b>Grants:</b> 3 (*)	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
(*) 1 grant from MIUR/DISFOR funds, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	04/07/2016 – 10 am, at the Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR), Corso A. Podestà, 2 - 16128 Genova
<b>Interview</b>	05/07/2016 – 2:00 pm, at the Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR), Corso A. Podestà, 2 - 16128 Genova
<b>Further information on how to present qualifications/publications</b>	The following will be evaluated: 1. Quality of the research project presented 2. Research experience and scientific publications 3. Specialist/II level degree or four-year degree dissertation, which may be attached in PDF format 4. Academic curriculum and degree mark
<b>Exam syllabus</b>	The written test will consist in a critical discussion of an article proposed by the examining commission, concerning the themes object of the curriculum (psychology, anthropology, cognitive sciences). The interview will be a discussion of the candidate's research project and of the qualifications/publications presented, as well as of the written test, with reference also to general methodological aspects of research and data analysis techniques in the subject fields referred to. Moreover, during the interview the candidate's knowledge of English will also be tested.
<b>Research themes</b>	1. General psychology and psychometrics Consultation and training in resilience in healthcare professionals. Resilience and safety. Road safety. Measuring of psychological variables. Validity and predictive capacity of the behaviour of implicit measures in attitudes. Analytical tools of implicit attitudes. Analytical and holistic processes in categorisation. Automatic and pre-attentive aspects of subitizing. 2. Developmental Psychology Drawing, language and cognitive development from 1 to 6 years of age. Limits of work memory capacity. Representation of the order of verbal items in short term memory. Psychological lexis and mentalization processes. Executive functions and adjustment processes. Typical and atypical linguistic development. Developmental pervasive disorders. Evaluation of the quality of school integration. 3. Dynamic and clinical psychology Psychopathological and emotional regulation disorders in adults. The reflexive functioning of adopted adolescents and its clinical implications. Psychopathological disorders of middle childhood within the perspective of emotional attachment and regulation. Risk factors and protection in the couple and in the family. 4. Social and work psychology De-humanization in inter-group relations. Migratory paths and acculturation processes. Ingroup-outgroup family relationships and well-being processes. Bullying, cyberbullying and new technologies. Well-being and critical transitions in healthcare. Organizational healthcare. Training and development of reflexivity in professional practices. Cultural competence in healthcare. 5. Anthropology Ethnomedicine and ethnopsychiatry, health anthropology: biosphere and treatment systems.
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign languages</b>	English
<b>Further information</b>	Mrs Maria Luisa Cesarano, DISFOR, Tel. +39 010- 20953609 Email cesarano@unige.it Prof. Alberto Greco, DISFOR, via Balbi 4 Tel. +39 010- 209 9852 Email greco@unige.it

## Curriculum: INTERCULTURAL RELATIONS AND PROCESSES (CODE 6221)

<b>Coordinator:</b> Palumbo Mauro	
Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	06/07/2016 – 10:00 am at the Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR), Corso A. Podestà, 2 - 16128 Genova
<b>Interview</b>	07/07/2016 – 2:00 pm at the Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR), Corso A. Podestà, 2 - 16128 Genova
<b>Further information on how to present qualifications/publications</b>	The contents of the written test cannot coincide with those of the research project presented in the qualifications/publications.
<b>Exam syllabus</b>	The paper will be on one of the research themes indicated. The interview will be on the candidates' Curriculum, their written test, their research project and on their research fields of interest.
<b>Research themes</b>	<ul style="list-style-type: none"> <li>• Reference models of migration theories, acculturation processes and individual and family identity construction in the various stages of the life cycle with special attention to inter-ethnic families, also from a gender point of view.</li> <li>• Ingroup-outgroup relationships: acculturation processes, integration, learning, ways of identity and social acquisition in various educational, training and working contexts.</li> <li>• Movements of populations with investigations on internal migrations as well as towards Europe. Study of the intercultural processes that have developed following in and out movements. Analysis of the changes that came about in the countries of origin after great migration movements.</li> </ul>
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign languages</b>	English or French or Spanish
<b>Further information</b>	Prof. Nadia Rania, DISFOR Email: nadia.rania@unige.it Mrs Maria Luisa Cesarano, DISFOR, Tel. +39 010- 20953609 Email cesarano@unige.it

<b>Coordinator:</b> Palumbo Mauro	
Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR)	
<b>Places:</b> 4 – <b>Grants:</b> 3 (*).	
(*) 3 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	05/07/2016 – 10 am, at the Department of Political Sciences (Dipartimento di Scienze Politiche - DISPO), Largo Zecca 8/16 – 16124 Genova
<b>Interview</b>	06/07/2016 – 2:30 pm at the Department of Political Sciences (Dipartimento di Scienze Politiche - DISPO), Largo Zecca 8/16 – 16124 Genova
<b>Further information on how to present qualifications/publications</b>	The contents of the written test cannot coincide with those of the research project presented in the qualifications/publications.
<b>Exam syllabus</b>	The paper will be on one of the research themes indicated. The interview will be on candidates' Curriculum, their written test, their research project and on the research theme chosen among those featured in the syllabus.
<b>Research themes</b>	Political ideas, ideologies, political phenomena from a historical and critical perspective - Promotion and safeguarding of human rights at a local, national and international level; - Social and political change within democratic contexts and the transformational dynamics of political and cultural relations linked to them.
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign languages</b>	English or French or Spanish
<b>Further information</b>	Prof. Alberto De Sanctis, DISPO Tel. +39 010-2099064 Email Alberto.DeSanctis@unige.it Mrs Maria Luisa Cesarano, DISFOR Tel. +39 010- 20953609 Email cesarano@unige.it



<b>Coordinator:</b> Palumbo Mauro	
Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR)	
<b>Places:</b> 3 – <b>Grants:</b> 2 (*).	
(*) 2 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 250,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	01/07/2016 – 2:00 pm at the Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR), Corso A. Podestà, 2 – 16128 Genova
<b>Interview</b>	04/07/2016 – 09:30 am at the Department of Education Sciences (Dipartimento di Scienze della Formazione - DISFOR), Corso A. Podestà, 2 – 16128 Genova
<b>Further information on how to present qualifications/publications</b>	The contents of the written test cannot coincide with those of the research project presented in the qualifications/publications.
<b>Exam syllabus</b>	The paper will be on one of the research themes indicated. The interview will be on candidates' Curriculum, their written test and on their research fields of interest.
<b>Research themes</b>	General theory of the evaluation and methodology of evaluative research. Evaluation of educational and social policies. Permanent learning and recognition of competences. Social disparities. Social policies. The condition of the young in the age of globalization. International migrations and new borders. Adult education and migrations. Global wars and new geopolitical situations. The role of science sociology in the defence of the environment. Governance, social safety and insecurity. Dynamics in the redefining of the labour market Analysis, at a European level, of the redefining dynamics of the labour market, with special attention to the young.
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign languages</b>	English
<b>Further information</b>	Prof. Luca Guzzetti, DISFOR Tel. +39 010-20953731 Email luca.guzzetti@unige.it Mrs Maria Luisa Cesarano, DISFOR Tel. +39 010- 20953609 Email cesarano@unige.it

**Course in: THE STUDY AND ENHANCEMENT OF THE HISTORICAL, ARTISTIC-ARCHITECTURAL AND ENVIRONMENTAL HERITAGE**

**Curriculum: HISTORY (CODE 6223)**

<b>Coordinator:</b> GALASSI Maria Clelia	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia - DAFIST)	
<b>Places:</b> 8 – <b>Grants:</b> 6 (*).	
(*) 6 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47	
The number of grants (6) and the number of places without grants (2) concerns the doctoral research course as a whole and not to the single curriculum.	
The examining commission will be the same for all the curricula and will draw up a single merit list.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	05/07/2016 – 9:00 am, in the Aula (Room) Magna of the Polo didattico - via delle Fontane, 10 -16124 Genova
<b>Interview</b>	06/07/2016 – 11:00 a m, at the Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia - DAFIST) – Modern and Contemporary History Division, via Balbi 6, 3 <sup>rd</sup> floor, 16126 Genova
<b>Further information on how to present qualifications/publications</b>	Besides the qualifications/publications requested in the public notice exam, candidates are requested to submit by means of the online procedure together with their applications: a) the four year degree thesis, or specialist, or II level degree thesis (in pdf format) which will be evaluated; b) any publications (in pdf format) c) a brief description of the research project proposed by the candidate (maximum 8000 characters plus the bibliography).
<b>Exam syllabus</b>	The written test will consist in a paper to be done within four hours. The essay title, which will be drawn by the candidates from a set of three proposals by the Examining Commission, will deal with general thematic – relevant to historical studies – aimed at highlighting the candidate's knowledge, analytical skills and methodological tools. The interview will be a discussion of: 1) the written test; 2) the candidate's research project; 3) the capacity to understand a passage taken from a history text, chosen by the Commission, in the foreign language chosen by the candidate.
<b>Research themes</b>	The History specialization includes: a) a contemporary line of research, with special attention to aspects of social history linked to the advent of mass society, to the phenomena of mobility and transnationality, to Euro-Atlantic relations, to gender history, to ethno history; b) a modern line of research which concerns the history of Modern Europe in its different expressions (political-institutional history, the history of territory, maritime history, military, cultural and religious history, with special attention to Italy and to the documentation heritage they refer to).
<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign languages</b>	English, French, Spanish.
<b>Further information</b>	Prof. Luca Lo Basso Tel. +39-0102095585

**Course in: THE STUDY AND ENHANCEMENT OF THE HISTORICAL, ARTISTIC-ARCHITECTURAL AND ENVIRONMENTAL HERITAGE**

**Curriculum: HISTORY AND PRESERVATION OF THE ARTISTIC AND ARCHITECTURAL HERITAGE (CODE 6224)**

<b>Coordinator:</b> GALASSI Maria Clelia	
Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia - DAFIST)	
<b>Places:</b> 8 – <b>Grants:</b> 6 (*)	
(*) 6 grants from the University, the annual gross amount of the grant, including social security expenses to be paid by the recipient, is € 13.638,47 The number of grants (6) and the number of places without grants (2) concerns the doctoral research course as a whole and not to the single curriculum. The examining commission will be the same for all the curricula and will draw up a single merit list.	
<b>Second instalment</b>	(only for graduate students who do not benefit from a grant) 500,00€
<b>Comparative assessment procedure</b>	QUALIFICATIONS/PUBLICATIONS AND EXAM
<b>Written test</b>	05/7/2016 – 9:00 am, in the Aula (Room) Magna of the Polo didattico – via delle Fontane, 10 – 16124 Genova
<b>Interview</b>	06/07/2016 – 11:00 am at the Department of Classical Studies, Philosophy and History (Dipartimento di Antichità, Filosofia e Storia - DAFIST) – Modern and Contemporary History Division, via Balbi 6, 3 <sup>rd</sup> floor, 16126 Genova
<b>Further information on how to present qualifications/publications</b>	Besides the qualifications/publications requested in the public notice exam, candidates are requested to submit by means of the online procedure together with their applications: a) the four year degree thesis, or specialist, or II level degree thesis (in pdf format) which will be evaluated; b) any publications (in pdf format) c) a brief description of the research project proposed by the candidate (maximum 8000 characters plus the bibliography).
<b>Exam syllabus</b>	The written test will consist in a paper to be done within four hours, on the basis of an outline drawn by the candidates from a group of three proposals prepared by the Examining Commission on general issues, relevant to the study and analysis of the artistic and architectural heritage and its preservation, aimed at highlighting the candidate's knowledge, analytical skills and methodological tools. The interview will be a discussion of: 1) the written test; 2) the candidate's research project; 3) the capacity to understand a passage from a text on historical and artistic themes or relevant to the cultural heritage, chosen by the commission, in the foreign language chosen by the candidate.
<b>Research themes</b>	The overall scope of the research proposals is directed to the study of the artistic and historical heritage and to the analysis of the issues concerning its preservation, besides the knowledge of the cultural and technical processes that characterise it, being aware of the need to present as substantial facts both the historical-territorial relations of the phenomena and their structural specificity. In this context the following lines, which constitute the curricular basis of the doctoral course, have emerged: a) analysis of the artistic object according to its formal components and contents; b) analysis of the artistic and architectural artefacts within their relations with the territory, in the dissemination processes of cultural and linguistic models, with special attention to the areas influenced by and interrelating with European culture; c) interaction among social, political, economic phenomena and communication through artistic forms; d) the client-artist-public relationship; e) iconographic and iconological studies; f) details of the religious structure in the use and production of images and in the creation of architectural models; g) Ligurian regional identity and its specificity in the European context; h) the relationship among production centres, institutions and the territory; models and replicas, centre and outskirts; i) analysis of technical processes in defining problems relating to historical-artistic and architectural artefacts; j) methodologies for the knowledge and preservation of the cultural heritage in its physical, architectural and territorial dimension.

<b>Information on references</b>	Reference letters are not required. Nonetheless, any reference letters received will not be taken into consideration for the final score.
<b>Foreign languages</b>	French, English and Spanish
<b>Further information</b>	Prof. Lauro Magnani Email magnani@unige.it Prof. Laura Stagno Email laura.stagno@unige.it