A new Academic Year: Skills Training at Politecnico di Milano

Professor Paolo Biscari – Dean, PhD School

Dear PhD Candidates

Every year in November we welcome most of the new PhD candidates of all the 18 PhD Programmes activated at Politecnico di Milano. This year close to 300 new candidates join our PhD community. Almost ¼ come from abroad, with more than 20 different nationalities and 4 continents represented in this year’s entries. As Dean of the PhD School, I am glad and honoured to welcome all of you.

Dear Chiara-Francesca-Giulia’s, dear Francesco-Marc-Stefano’s (yours are the most frequent names among the PhD freshpeople) welcome to the PhD studies at Politecnico di Milano, the path leading to the highest academic degree we award. Dear Maryam-Yang-Rocio’s, thank you for having chosen Italy and our Institution to develop your doctoral career. We will be all committed to drive and facilitate your approach to Research and Innovation.

This year’s main novelty refers to doctoral training. All the candidates joining our program this November (or anytime later) will find a brand new training program in soft and transferable skills. The following doctoral courses will be activated during the year:

<table>
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<th>Course</th>
<th>Period</th>
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<tr>
<td>ADVANCED INTERACTION SKILLS FOR ACADEMIC PROFESSIONALS</td>
<td>27 Nov - 1 Dec 2017</td>
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<tr>
<td>COLLABORATIVE RESEARCH METHODOLOGIES</td>
<td>15 Jan - 21 Mar 2018</td>
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<td>COMMUNICATING SCIENTIFIC RESEARCH</td>
<td>1 Mar - 30 Jun 2018</td>
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<td>EPISTEMOLOGY OF SCIENTIFIC AND TECHNICAL RESEARCH</td>
<td>16 Feb - 2 Mar 2018</td>
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<td>ETHICS IN RESEARCH</td>
<td>5 - 9 Feb 2018</td>
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<td>ETHICS, TECHNOLOGY, AND SOCIETY</td>
<td>12 - 16 Feb 2018</td>
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<td>INDUSTRIAL SKILLS</td>
<td>21 - 31 May 2018</td>
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<td>INNOVATIVE TEACHING SKILLS</td>
<td>5 Apr - 12 May 2018</td>
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<td>METHODS AND MODELS FOR THE DECISION MAKING</td>
<td>1 Feb - 22 Mar 2018</td>
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<td>PROFESSIONAL COMMUNICATION</td>
<td>16 Jan - 6 Feb 2018</td>
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<td>PROJECT MANAGEMENT (IN ACTION)</td>
<td>5 - 9 Mar 2018</td>
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<td>PROJECT MANAGEMENT BASICS</td>
<td>8 Feb - 31 Mar 2018</td>
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<td>PROJECT MANAGEMENT PMI-CAPM CERTIFICATION PREPARATION</td>
<td>7 - 14 Mar 2018</td>
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<td>PUBLIC ENGAGEMENT AND COMMUNICATION FOR SCIENCE AND RESEARCH</td>
<td>19 Feb - 16 Mar 2018</td>
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<td>RESEARCH MANAGEMENT</td>
<td>26 Feb - 30 Jun 2018</td>
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<td>RESEARCH SKILLS</td>
<td>23 Jan - 3 Jul 2018</td>
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<td>RESOURCE PLANNING AND MANAGEMENT WITHIN SUSTAINABLE DEVELOPMENT</td>
<td>28 Jan - 2 Feb 2018</td>
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<tr>
<td>SCIENCE, TECHNOLOGY, SOCIETY AND WIKIPEDIA</td>
<td>11 - 15 Jun 2018</td>
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<td>SCIENTIFIC COMMUNICATION IN ENGLISH</td>
<td>16 - 30 Apr 2018</td>
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<tr>
<td>SOCIOLOGY OF RESEARCH</td>
<td>26 Feb - 30 Apr 2018</td>
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<tr>
<td>SUILLA RESPONSIBILITÀ DELLA TECNICA (in Italian)</td>
<td>11 Dec 2017 - 31 Jan 2018</td>
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<td>SUSTAINABILITY METRICS, LIFE CYCLE ASSESSMENT AND ENVIRONMENTAL FOOTPRINT</td>
<td>15 - 24 Jan 2018</td>
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More details, including the professors in charge for the course and the detailed programs can be inspected from this link. Candidates starting their PhD career this November (or later) must earn during their PhD career at least 10 PhD School courses credits (corresponding to 2 PhD School courses). Besides these two courses, candidates will be requested to attend specific courses for their PhD programmes, as detailed in their PhD Programme Plan (that can be downloaded from this link).

To choose the PhD School (soft and transferable skills) courses you intend to attend, please fill in and submit this form by Monday, December 4th 2017. The courses will be then assigned to each one according to your preferences and to the availability of each course.

With my very best wishes

Paolo Biscari
Dean, PhD School
Calls and events

**CONFALONIERI GRANTS FOR PHD CANDIDATES**

*Four grants* (€ 16,350.00 per year) are available to PhD Candidates, without other scholarships, enrolled in a Milan University (including Politecnico).

For information and to apply please visit the site (in Italian) of the [Fondazione Confalonieri](http://www.confalonieri.it).

**Deadline:** 14 November 2017

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**ENI AWARD 2018**

The Italian multinational Oil&Gas company ENI offers, since 2008, a series of prizes to promote and award research and technological innovation in the fields of energy and the environment. You might be interested and apply to two *Young Researchers of the Year* prizes and two *Debut in Research: Young Talents from Africa* prizes.

See the [Regulations](http://www.eni.com/) and take care of the **deadline: 10 November 2017**

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**IDEA LEAGUE DOCTORAL SCHOOL – ECS-BIT’18**

ENGINEERING COMPLEX SYSTEMS WITH BIG DATA AND INFORMATION TECHNOLOGY

Are you interested in the role of big data analysis and emergent IT technologies in complex systems engineering in large-scale, interconnected, highly complex and dynamic socio-technical systems? The ECS-BIT’18 IdeaLeague doctoral school (see here for a full [description](http://idealeague.org/)), with sessions in Delft, Aachen, Milan and Göteborg, will offer you a broad perspective on how these topics are studied in different disciplines.

**Deadline for registration:** 15 November 2017 at 12:00 noon

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**IDEA LEAGUE STUDENT GRANTS**

Politecnico di Milano supports short-term research exchanges among IDEA League partners with the 2016 Students Exchange call. The grants are made available to Politecnico di Milano PhD Candidates who want to do a short-term research stay at an IDEA League partner university.

Further information: [http://idealeague.org/student-grant/](http://idealeague.org/student-grant/)

**Call**

**Deadline:** 15 December 2017
Seminars

2D FIBRE REINFORCED CONCRETE (FRC) ELEMENTS: FROM MATERIAL TO STRUCTURAL DESIGN
Ing. Paolo Martinelli
Seminar organized by the DICA Scientific Committee.
21 November 2017

PRESENTATION OF THE PHD PROGRAM IN STRUCTURAL, SEISMIC AND GEOTECHNICAL ENGINEERING FOR 33° CYCLE PHD STUDENTS
Prof. Roberto Paolucci
Presentation of the activities of the PhD program in Structural, Seismic and Geotechnical Engineering; induction for new students
13 November 2017 – 11:00; Lilla Room (Building 5)

WELCOME DAY OF THE PHD PROGRAM IN ARCHITECTURE, BUILT ENVIRONMENT AND CONSTRUCTION ENGINEERING – 33° CYCLE
Prof. Enrico De Angelis
Just after the PhD School WELCOME, the ABC Department welcomes its new Candidates: you will meet the Director of the ABC Department, prof. Stefano Della Torre, its Executive Manager, dott. Alessandra Sardi, the staff of the PhD Office and the Head of the Program, prof. Enrico De Angelis, for a short introduction. Some PhD Holders from 29th Cycle (A.Kanyilmaz, G.Castaldo, C.Fumagalli) will follow, telling their stories and the day will close with a tour in, through and by the many Department offices.
10th November 2017 – Sala Riunioni P-1, Bdg.15 (underground), Dept. ABC

Starting courses – Doctoral Programmes

PhD in Architecture, Built Environment and Construction Engineering

SCIENTIFIC WRITINGS – A Training Journey in and for Publishing
Enrico De Angelis, Richard Lorch
The course aims to train ABC-PhD Candidates to perform at their best their main activity as “future scientists”: writing and publishing. Not only: searching references, reviewing literature, find the best Journal, being reviewed and, eventually, publishing their research products. The course aims also helping the access to all the Politecnico resources (digital journals, bibliographic and bibliometric tools, sharing and planning tools) that Politecnico offer to every student and every researcher.
The course will be held in November: the first part is scheduled November 13-14-15th

ARCHITECTURAL AND URBAN DESIGN SEMINAR – Architecture and City Reconstruction
Proff. A.del Bo, M.Ferrari, L.Pezzetti, C.Pallini
The 2017/18 course has a main topic (City Reconstruction) and a precise subject linked to the “Aleppo Strategic Urban Rehabilitation Initiative” developed with the Aga Khan Trust for Culture. The course is organized in a first seminar (November 9th), aimed at drafting a series of design proposals for the reconstruction of the Old City of Aleppo, Syria, and a following Workshop, that will engage Candidates, together with professors and experts, for a longer period (end of November – December 2017), in a practice based research about the methodology for drawing guidelines about the Reconstruction of Heritage Cities.
9th November– 21st December 2017
PhD in *Mechanical Engineering*

**MULTIBODY SYSTEM DYNAMICS**  
prof. Federico Cheli  
6 November 2017 – 17 November 2017 - Department of Mechanical Engineering

PhD in *Structural Seismic and Geotechnical Engineering*

**NON LINEAR SOLID MECHANICS**  
Prof. Anna Pandolfi  
The course, organized in 28 lectures of 1 hour each, aims to give a rigorous introduction to nonlinear solid mechanics and material behaviors (hyperelasticity, elastoplasticity, viscosity), addressing topics like finite kinematics, material frame indifference and constitutive models, in a thermodynamic framework.  
15 – 16 – 22 – 23 – 29 – 30 November 2017 (see here the PhD-SSGE calendar)

**ADVANCED STRUCTURAL DYNAMICS**  
Prof. Federico Perotti; Prof. Luca Martinelli; Prof. Vitomir Racic  
The course focuses on advanced modelling of structural systems and is organized in four parts: 1) Random Vibrations of Linear Structures – 9 hours; 2) Structural dynamics in seismic engineering – 6 hours; 3) Human Induced Vibrations – 6 hours; 4) Measurements, Analysis and Mitigation of Vibrations, 9 hours.  
10 – 17 – 24 – 27 – 28 November 2017 (see here the PhD-SSGE calendar)

**Colloquia Doctoralia**  
MECCPHD COLLOQUIA DOCTORALIA 2017  
Prof. Daniele Rocchi – Deputy Head of the Programme  
Final Defense of 30th cycle candidates  
- Final Defense of PhD Candidate Ramadhani Omari Kivugo  
3 November 2017, 10:30 am, Sala Acquario, Department of Mechanical Engineering