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PhD School - Politecnico di Milano

Regulations of the PhD Program of:

Architectural Urban Interior Design - AUID

Cycle XXXVI

1. General information

PhD School - Politecnico di Milano

PhD Program: Architectural Urban Interior Design - AUID

Course start: November 2020

Location of the PhD Program: Milano, Campus Leonardo

Promoter Department: Department of Architecture and Urban Studies - DASTU

Scientific Disciplinary Sectors:
- ICAR/14 - Architectural and Urban Design
- ICAR/16 - Interior Design
- ICAR/17 - Drawing and Representation
- ICAR/18 - Architectural History
- ICAR/12 - Architectural Technology
- ICAR/21 - Urban Planning
- M-FIL/04 - Aesthetics

PhD Program Website: www.auid.polimi.it
PhD School Website: http://www.dottorato.polimi.it/en/

2. General presentation

The PhD Program in Architectural Urban Interior Design (AUID) promotes research, studies and projects focused on design processes and techniques belonging to contemporary architecture.
The Program is part of the Polimi PhD School, which gives a number of cross disciplinary courses, and it is comprised inside the Department of Architecture and Urban Studies (DAStU), which is one of the most important research structures in Italy, and it is inserted into a well-established international network of centers of excellence.
Our Program is a founding member of the European Network CA2RE, which schedules recurrent milestones and research activities together with the following partners: Arkitektskolen i Aarhus, Katholieke Universiteit Leuven, Technische Universitat Berlin, Universidade Lusófona Do Porto – Cofac, Hafencity Universitat Hamburg, Norges Teknisknaturvitenskapelige Universitet Ntnu, Technische Universiteit Delft, Eaae - Aeea (European Association For Architectural Education), European League Of Institutes Of The Arts Vereniging.
The Program is run by a Head, who coordinate the all Program; Deputy Heads with specific assignments; a Faculty Board, who has the scientific responsibility of the program; a Group of Experts, composed by professors with a bold experience in academic research; a Group of Researchers, who actively participates in lecturing and tutoring the candidates; an international Advisory Board, mostly representing the Program European network.
The Program welcomes both foreign and Italian students. English is the official languages; the specific research subjects will be assigned to each candidate, after an agreement with the Faculty Board, within the first year of the PhD activity.

2.1. Research topics

The Program studies architectural culture in all aspects, essentially through two main methodological frames:

- Theoretical design research, addressed to the elaboration of original theoretical and critical texts;
- Applied design research, where design is considered as the field where to test and to produce theoretical and technical knowledge.

  Every year, the Program, in the respect of its general directions, focuses on some specific topics, to be explored through the theoretically and/or designerly. Within the 36th Cycle, starting in 2020 -21, the preferential research lines are:

- Architecture of crisis, emergency and prevention; questions related with processes of obsolescence and decay; catastrophic effects of technical, social and natural cause.
- Forests and rivers: regeneration and reuse of rural architecture and landscapes; recovery of abandoned lands, relationships between infrastructure, landscape, architecture; architectural and landscape design tools and methods for a sustainable approach to vulnerable environment.
- Built environment and innovation in urban transformation. Advanced technologies, sustainability and participative processes.

3. Professional opportunities and job market

The Program is aimed to train highly qualified researchers and professionals who will work in academic institutions, research centers, public administration, as well as in the private sector, in the fields of architectural, urban and interior design:

- University researchers and lecturers in the scientific fields of the PhD Program;

- Researchers with an excellent scientific profile in the field of complex architectural developments and interventions of recovering and transformation;

- Independent professionals qualified in the management of highly complex design processes;

- Designers with tasks of high responsibility in institutions and professional structures and leading manufacturers, engaged in traditional residential and special utilities, cultural institutions (museums, libraries, universities, schools, cultural centers), public and private services, commercial networks, accommodation and leisure.

4. Enrollment

4.1. Admission requirements

Italian and International citizens are requested to have graduated, in accordance with the pre-existing laws D.M. 3.11.1999 n. 509, or to have a Master of Science degree in accordance with D.M. 3.11.1999 n. 509, or a Master of Science in accordance with D.M. 22.10.2004 n. 270, or similar academic title obtained abroad, equivalent for duration and content to the Italian title, with an overall duration of university studies of at least five years.

A Master of Science degree in Architecture is highly recommended; are allowed to follow the program also candidates graduated in disciplines as Landscape, Design, Art, Media and Communications.

The certified knowledge of the English language is a requirement for admission. Please refer to the PhD School website for details.

The admission to the program will be established according to the evaluation of the candidates' curricula, motivation letters, and an illustrative report about the development of a possible PhD research, which candidates will send contextually with their application to the admission announcement. It is possible that a short list of candidates is requested to participate at an interview with the Head and members of the Faculty Board of the Program.

4.2 Admission deadlines and number of vacancies

The number of positions is indicated in the Call for admission to the 36th PhD cycle Program:

Scholarships are available, in accordance with what is specified in the call for admission.

5. Contents

5.1 Requirements for the PhD title achievement

The achievement of the PhD title in "Architectural Urban Interior Design" requires a study and research activity of at least three years equivalent of fulltime study, focused on the development of PhD thesis.

PhD candidates must earn a minimum of 30 course credits (see paragraph 5.3 below), and to regularly conduct studies and research.

At the beginning of the course, the Faculty Board can assign a tutor to supervise and assist the PhD candidate in the overall training Program. The tutor shall be a professor belonging to the Faculty Board or to the Groups of Experts and of Researchers. The tutors assist the candidates in the choice of courses to be included in the study plan, which is eventually submitted for approval to the Head of the Program (see also section 6.4 below).

The Faculty Board may assign extra course credits to one or more candidates, in case they need to complete their preparation in specific topics, relevant for their research projects.

5.2 Research development

The main aim of all Polimi PhD Programs is the development, for the candidates, of a research-oriented mind-set, with expertise and skills in a specific research topic.

PhD candidates are requested to develop an original research contribution. The PhD thesis must thus contribute to increase the knowledge in the candidate's research field. Besides, it has to be coherent with the general research lines of the PhD Program.

The original research results are collected in the PhD thesis, where the candidate's contribution is put in perspective with respect to the research state of the art in the specific research field.

The PhD research is developed under the guidance of a supervisor, who supports the candidate in the setting-out and in the everyday activities related to the thesis development. The supervisor is not necessarily a member of the Faculty Board and may also belong to an institution that is not Politecnico di Milano. The supervisor can be supported by one, or more, co-supervisors.

During the PhD path, further activities are encouraged, if intended to develop the candidate's personal skills and research expertise. Candidates must acquire the capability to present and discuss their work in their research community. Consequently, both the participation in international conferences and the publication of the research results in peer-reviewed journals are supported.

The Program encourages the candidates' research interactions with other groups in their research field, in national and international fields. Research visits of at least three months are strongly fostered, as through them the candidates may acquire further skills to develop their research work and thesis.

The minimum duration of the Program is three years.

5.3 Objectives and general framework of the teaching activities

The PhD Polimi Programs and the PhD Polimi School activate teaching forms of different kind and credit value, including courses, seminars, project workshops, laboratories. Teaching activities both cover the basic research issues (problems, theories, methods), which represent the founding element of the PhD Program. Lessons are usually held in English, except when indicated otherwise. Structured teaching activities allow to earn ECTS credits. Other activities, typically specialized and for which it is difficult to evaluate the learning and its quantification, fall within the scientific activities of which the Faculty Board takes into account in the overall evaluation, but they do not allow to earn ECTS.

The PhD School of Politecnico di Milano proposes a set of courses aiming to train the PhD candidates in soft and

transferable skills. The skills and abilities provided by these courses are expected to help candidates across different areas of their careers, in order to respond to the rapidly evolving needs of the global economy and society at large.

The PhD School courses activated for the 2020-2021 academic year will be visible at this link: http://www.dottorato.polimi.it/en/during-your-phd/phd-level-courses/. At least 10 of the 30 course credits (ECTS) that each candidate is required to earn, shall be obtained through soft and transferable skills courses organized by the PhD School.

The educational structure includes:

- Lectures, training sessions, guided tours and seminar cycles given by Faculty and visiting professors;

- Workshops of design driven research;

- Seminar activities and individual stages/internships particularly important for enhancing the students' curriculum;

- Individual research aided by tutors with the contribution of the entire teaching staff.

Each learning activity is subject to grading through oral examination and/or the submission of written papers. Detailed programs are available on the Program's website. Within the end of the first semester, PhD students will be required to submit a project for their PhD dissertation. Programs and bibliographies of courses are available online and will be communicated at the beginning of each activity. The table below summarize the candidate's path (as regards coursework activities). At the same time, the Program foresees that the candidates are devoted to research activity in a continuous way, following the lead of their supervisors and of the Faculty Board.

First/Second Year (courses and workshops to be followed within the first 18 months):

Courses	Possible details or reference to following tables	Number of credits (min)	Note
PhD School Courses	Every PhD candidate has to follow two courses of the PhD School of Polimi	5 + 5	
PhD AUID Program Courses	Every PhD candidate has to follow 3 courses + 1 workshop of AUID Program	5 + 5 +5 +5	

Third year

In the third year the candidate should be devoted entirely to the research and to the development of the PhD thesis.

PhD Course List

A) The PhD Program in Architectural Urban and Interior Design organizes the Characterizing Courses listed in table A. For the admission to the final exam the acquisition of at least 20 credits in this list is mandatory. These credits must be acquired via the "characterizing PhD courses" offered by the PhD Program. For admission to the second year the credits workshops, the seminars, the course of the PhD School must be fulfilled (30 credits minimum - 60 credits maximum, including eligible credits and milestones credits).

B) The PhD School organizes every year general and Inter-doctoral courses. The acquisition of at least 10 credits is mandatory among the courses of B type. The list of PhD courses organized by the PhD School is available at the website

C) Other PhD courses
Example: a maximum of 10 mandatory credits can be obtained by choosing among courses provided by other PhD Program at Politecnico di Milano and/or external Institutions (in this case the previous approval of the tutor and the coordinator is mandatory).

PREPARATORY COURSES
If the supervisor and the tutor think that it is useful, or necessary, that the candidate attends preparatory courses (chosen among the activated courses at the Politecnico di Milano), the Faculty Board of the PhD Program may assign some extra-credits to be acquired to complete the training path. The credits acquired in this way will be considered as additional, in relation to the mandatory credits to be acquired with the PhD courses.

SPECIALISTIC COURSES, LONG-TRAINING SEMINARS
The attendance of Specialist Courses, Workshops, Schools, Seminars cycles is strongly encouraged and (if these seminars, workshops are certified and evaluated) may permit to acquire credits according the modalities established by the Faculty Board and previous approval of the study plan submitted by the candidate. These courses and workshops can be inserted in the study plan, even if they are not evaluated (and therefore not qualified as credits), as optional "additional teaching".

The scheduled course planning for the academic year 2019-2020 follows. Other courses may be activated during the year. In this case, the candidates will be promptly informed, and will be allowed to make changes in their study plan.

Table A: PHD COURSES CHARACTERISING THE PHD PROGRAM

Name of the Course	Professors	Credits
Architecture Research Agenda	Alessandro Rocca, Andrea Gritti, Stamatina Kousidi	5
Theories and Techniques of Funded Research	Gennaro Postiglione, Fabrizia Berlingieri, Francesca Lanz	5
Architectural Research Workshop	Marco Bovati, Jacopo Leveratto, Andrea Oldani	5
Architectural Design Workshop (to be chosen from a list published on www.auid.polimi.it)		5

5.4 Presentation of the study plan
PhD candidates must submit a study plan, which may be revised periodically (approximately every three months), in order to adequate to possible changes in the course list, or to needs motivated by the development of their PhD career. The study plans must be approved by the Program Head, according to the modalities established by the Faculty Board in this document.

5.5 Yearly evaluations
Candidates present their work to the Faculty Board at least once a year. In particular, the candidates must pass an annual evaluation in order to be admitted to the following PhD year.
The third year evaluation establishes the candidate's admission to the final defense. As a result of each

successful annual evaluation, the candidates receive an assessment (A/B/C/D). Candidates who do not pass the exam will be qualified as "Repeating candidate" (Er) or "not able to carry on with the PhD (Ei)".

After the final year, candidates who have achieved sufficient results but need more time to draw up their thesis, may obtain a prorogation of up to 12 months.

5.6 PhD thesis preparation

The main objective, of the PhD career, is the development of an original contribute in the candidate's research field.

The PhD study and research work are carried out, full time, during the three years of the PhD course. Stages or study periods in (Italian or International) companies or external institutions may complete the candidate's preparation.

The resulting thesis need to be coherent with the research issues indicated in the Call of the AUID PhD Program.

The candidate must present an original thesis, discuss its contribution to the state of the art in the research field in the research community.

The PhD research is developed following the lead of a supervisor, who supports the candidate in the setting out and in the everyday activities regarding the thesis development.

At the conclusion of the PhD studies, the Faculty Board evaluates the candidates. Candidates who receive a positive evaluation submit their theses to two external reviewers for refereeing. If the evaluation provided by the reviewers is positive (or after the revisions required by the external reviewers), the candidates defend their thesis in a final exam, in front of a Committee composed of at least three members (at least two of which must be external experts).

Phase 1 – During the first year, while attending Program and School courses, the thesis topic is chosen and specified together with its theoretical and methodological implications, the preliminary table of contents is defined, as well as the basic bibliography. At the end of the first semester, PhD Students presents the "Research project" document to the Faculty Board (1st milestone).

Phase 2 – At the end of the second semester, the PhD Students present to the Faculty Board the development of essential elements and documentation of the research thesis: annotated tables of contents, bibliographical documentation, graphic and iconographic material (2nd milestone).

Phase 3 – The second and the third year are devoted to detailed thematic, experimental and design issues and to the draft of the final thesis (3rd, 4th, 5th and 6th milestones).

At the end of each year (2nd and 4th milestones), The Faculty Board determines the admission of eaxh PhD Student to the following year.

At the end of the third year the thesis is presented during a final public seminar (6th milestone), and the Faculty Board determines the admission to the final defense.

6. Laboratories, PhD Secretary Services

The PhD has a workspace in Building 12, campus Leonardo.
Administrative manager: Marina Bonaventura
Department of Urban Studies (DASTU)
via Bonardi 3 - I-20133 Milano
Contact: Tel. +39-02-23995165, marina.bonaventura@polimi.it, phd-auid@polimi.it

7. Internationalization

Politecnico di Milano supports joint PhD paths with international institutions, as well as Joint and Double PhD Programs. Further information is available on the PhD School website http://www.dottorato.polimi.it/en/ and on the PhD Program website (http://www.auid.polimi.it).

The AUID PhD Program collaborates with many foreign universities and institutions:

> TU Berlin, Institute for Architecture
> TU Delft, School of Architecture
> KU Leuven, Faculty of Architecture, Campus Sint-Lucas, Ghent
> Aarhus School of Architecture
> University of Ljubljana, Faculty of Architecture
> Universidade Lusófona do Porto
> Hafencity Universität Hamburg
> Norwegian University of Science and Technology Trondheim
> Université Paris-Saclay

Alessandro Rocca is MSc Architect (La Sapienza, Università di Roma), Phd in "Methodological Questions in Architectural Design" (Università di Genova), full professor of Architectural and Urban Design and Head of the PhD Program in Architectural, Urban, Interior Design (AUID) at the Department of Architecture and Urban Studies (Dastu) of Politecnico di Milano (Polimi). He is member of the Board, of PhD AUID, since 2014. He teaches Architectural Design at the Polimi School of Architecture Urban Planning Construction Engineering (Auic) in the MSc of Architecture Built Environment Interiors.

He is member of the scientific committee of the European Doctoral Network CA2RE, Conference for Artistic and Architectural (Doctoral) Research.

He was visiting professor at University of Clemson, University of Ferrara, Brera Academy of Fine Arts (Milan), and he lectured in foreign and Italian universities (Polytech Saint Petersburg, Higher School of Economics Saint Petersburg, ENSA Paris-Belleville, ENSA Lyon, ENSP Versailles, TU Delft, FAUP Porto, University of Jordan, ENAU Tunis, Roma La Sapienza, Iuav Venezia, Politecnico di Torino, Gorizia, Trieste, Genova, Parma, Ferrara, Firenze, Bologna, Reggio Calabria, Siracusa).

He is author and curator of several books on architecture and landscape ("Lo spazio smontabile" "Architecture low cost low tech", "Natural Architecture", "Nine Planetary Gardens"), he published essays and articles on Italian and international architectural reviews and magazines, such as "Lotus", "Interni", "Domus", "Abitare", "Parametro", "Archis", "Bauwelt", "Territorio" "Fuoco amico", "Viceversa".

Since 1990 to 2003 he was editor of the reviews "Lotus international", "Lotus Documents" and "Navigator"; he contributed of the magazine "Interni" (2008-14), and since 2015 he is founder and editor in chief of the architectural review "Fuoco amico" https://issuu.com/mmxiipress.

Recently, he co-designed the Cereals Cluster at Milan (built, at Expo 2015) and led the design team for the Milano-Bovisa campus masterplan (2016); in the last years, he worked in some projects of architectural, urban and landscape design, such as the Linear Park in Nembro (partially built), and the Martesana Regional Park in Milan.

He co-curated some international workshops, such as the yearly Miaw (Milan Architectural International Workshop, Polimi, since 2014 to 2018), "Landscape in Art and Science" (Polimi, 2016), "Plaine de France" (Ecole Nationale Supérieure du Paysage de Versailles – Polimi, 2015), "Mines Landscape Design" (Iglesias – Milan, Polimi, 2013), "The Garden of the Righteous" (Milan, Polimi, 2012), "Costruire Naturale" (Piedmont, Polimi, 2010), "Picnic al Tempio" (Sicily, 2007, 2008, 2009).

His publications are available at https://orcid.org/0000-0002-5667-4579.

Attachment A2 – PhD AUID Faculty Board

Prof. Alessandro Rocca, Polimi-DAStU, PO ICAR 14 (head)
Prof. Simona Chiodo, Polimi-DAStU, PO MFIL04 (vice head)
Prof. Emilia Corradi, Polimi-DAStU, PA ICAR 14 (vice head)
Prof. Gennaro Postiglione, Polimi-DAStU, PO ICAR 16 (vice head)
Prof. Guya Bertelli, Polimi-DAStU, PO ICAR 14
Prof. Marco Biraghi, Polimi-DAStU, PO ICAR 18
Prof. Marco Borsotti, Polimi-DAStU, PA ICAR 16
Prof. Marco Bovati, Polimi-DAStU, PA ICAR 14
Prof. Pier Federico Caliari, Polito, PO ICAR 16
Prof. Luigi Cocchiarella, Polimi-DAStU, PA ICAR 17
Prof. Valentina Dessì, Polimi-DAStU, PA ICAR 12 (to be confirmed)
Prof. Andrea Di Franco, Polimi-DAStU, PA ICAR 14
Prof. Immacolata C. Forino, Polimi-DAStU, PO ICAR 16
Prof. Carlos Garcia Vázquez, Universidad de Sevilla, PO ICAR 14
Prof. Roberto Gigliotti, Unibz, PA ICAR 16 (to be confirmed)
Prof. Stefano Guidarini, Polimi-DAStU, PA ICAR 14
Prof. Laura Montedoro, Polimi-DAStU, PA ICAR 21
Prof. Carles Muro, Polimi-DAStU, PA ICAR 14 (to be confirmed)
Prof. Marco Navarra, Università di Catania, PA ICAR 14
Prof. Orsina Simona Pierini, Polimi-DAStU, PO ICAR 14
Prof. Alessandro Rogora, Polimi-DAStU PO ICAR/12
Prof. Pierluigi Salvadeo, Polimi-DAStU, PA ICAR 16
Prof. Luigi Spinelli, Polimi-DAStU, PA ICAR 14
Prof. Ilaria Valente, Polimi-DAStU, PO ICAR 14
Prof. Fabrizio Zanni, Polimi-DAStU, PA ICAR 14

Members of the Board of Experts accredited to participate in teaching and research activities

Prof. Luca Basso Peressut, Polimi-DAStU, PO ICAR 16
Prof. Carlo Berizzi, Unipv, PA ICAR 14
Prof. Antonella Contin, Polimi-DAStU, RU ICAR 14
Prof. Giovanni Corbellini, Polito, PO ICAR 14
Prof. Pierre-Alain Croset, Polimi-DAStU, PO ICAR 14
Prof. Carlotta Fontana, Polimi-DAStU, PO ICAR 12
Prof. Pierfranco Galliani, Polimi-DAStU, PO ICAR 14
Prof. Andrea Gritti, Polimi-DAStU, RU ICAR 14
Prof. Marco Lucchini, Polimi-DAStU, PA ICAR 14
Prof. Filippo Orsini, Polimi-DAStU, PA, ICAR 14
Prof. Matteo Poli, Polimi-DAStU, RU ICAR 15
Prof. Santiago Quesada Garcia, Universidad de Sevilla, PA ICAR 14
Prof. Roberto Rizzi, Polimi-DAStU, PA ICAR 16
Prof. Michele Sbacchi Unipa, PA ICAR 14
Prof. Marco Trisciuoglio, Polito, PA ICAR 14
Prof. Michele Ugolini, Polimi-DAStU, PA ICAR 16

Researchers accredited to participate in teaching and research activities

Prof. Fabrizia Berlingieri, Polimi-DAStU, Rtd-B ICAR 14
Prof. Barbara Coppetti, Polimi-DAStU, Rtd-B ICAR 14
Prof. Cassandra Cozza, Polimi-DAStU, Rtd-A ICAR 14
Prof. Stamatina Kousidi, Polimi-DAStU, Rtd-B ICAR 14
Prof. Francesca Lanz, Polimi-DAStU, Rtd-A ICAR 16
Prof. Jacopo Leveratto, Polimi-DAStU, Rtd-A ICAR 16
Prof. Camillo Magni, Polimi-DAStU, Rtd-A ICAR 14
Prof. Pasquale Mei, Polimi-DAStU, Rtd-A ICAR 14
Prof. Andrea Oldani, Polimi-DAStU, Rtd-B ICAR 15
Prof. Giulia Setti, Polimi-DAStU, Rtd-A ICAR 14

Attachment A3 – PhD AUID Advisory Board

Prof. Najla Allani, Ecole Nationale d'Architecture, Tunis (Enaut)
Prof. Tom Avermaete, ETH Zurich
Prof. Jo van den Berghe, KU Leuven, Ghent
Prof. Carmen Diez Medina, EINA Zaragoza
Prof. Oya Atalay Frank, ZHAW, Wintherthur
Prof. Carmen Espegel, ETSAM Madrid
Prof. Joerg Gleiter, TU Berlin
Prof. Joao Gomes da Silva, Accademia di Architettura di Mendrisio
Prof. Christoph Grafe, Universitaet Wuppertal
Prof. Marco Hemmerling, Technische Hochschule Köln
Prof. Claus Peder Pedersen, Aarhus School of Architecture
Prof. Annalisa Viati Navone, ENS Architecture Versailles
Prof. Tadeja Zupancic, University of Ljubljana