welcome kit
XXXII cycle
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The Politecnico di Milano was among the first universities in Italy to start a Ph.D. programme in the field of design in 1990. Based on this tradition, the Ph.D. programme in Design was established in 2008, as the result of a process of substantial re-thinking the way design was taught at Ph.D. level.

The programme is run by the Department of Design together with the Department of Mechanics and the Department of Chemistry, Materials and Chemical Engineering “Giulio Natta”.

In its current configuration the Ph.D. programme in Design aims at developing professional competence to carry out high quality research in terms of design as a complete scientific field. In this respect, its main topics are: to reflect on the nature of design, with its aesthetic, formal, performance and meaning values, as well as its capability of being an agent of social change towards more sustainable systems; to strengthen the disciplinary core of design; to develop and share a common body of knowledge and methodologies, as well as a complete set of tools able to distinguish the designer from other researcher/professional figures involved in design activity.

The Ph.D. programme in Design is structured into various research fields, which correspond to specific research teams within the Department of Design.

In order to coordinate research activity over a wide range of topics, teams cluster around three Sections, which are:

- Design and Cultures
- Products, Strategies and Services
- Design for Environments, Landscape and Mobility

The research teams - “Methods and Tools for Product Design” and “Materials and Design” are active respectively in the two other Departments involved in the programme (Department of Mechanics and Department of Chemistry, Materials and Chemical Engineering).

Research teams also contribute to the teaching activities undertaken by the School of Design.

The Ph.D. programme in Design carries out research on specific topics emerging from the research initiatives of all Departments.
The courses offered aim at training the candidates for the skills needed to carry out high quality research for companies, universities, research centres and other institutions.


The programme offers the doctoral candidates the following opportunities:

- to develop an original theme of research, becoming an effective member of a research team
- to attend courses and seminars on design, on design research and on research in general, developing competences concerning the discipline of the design, and the profession of the researcher

The Programme develops project and analytical abilities, it proposes different methodologies of research, promotes the attitude to collaborate and offers professional opportunities in universities and research centres, design enterprises and public corporate bodies.

_ _ mission and goals

The courses offered aim at training the candidates for the skills needed to carry out high quality research for companies, universities, research centres and other institutions.


The programme offers the doctoral candidates the following opportunities:

- to develop an original theme of research, becoming an effective member of a research team
- to attend courses and seminars on design, on design research and on research in general, developing competences concerning the discipline of the design, and the profession of the researcher

_ _ objectives

The achievement of the Ph.D. title in Design requires a study and research activity of at least three years equivalent of full time study, research and development of Ph.D. thesis. During this period both educational and research activities are provided.

The programme develops design skills and analytical abilities, proposes various research methodologies and promotes a collaborative disposition.

At the beginning of the programme candidates become effective members of a research team, within which they develop an original research topic (Ph.D. thesis); this activity is the fundamental core of the learning process.

Parallel to this main activity, candidates are involved in several other educational processes, divided into training and specialist activities.

Training activities are those such as courses and seminars related to the discipline of design and research methodologies and practices, considered in their entirety. Specifically: common activities are proposed to consolidate the cultural and operational background, which is common to all areas of design research.

Specialist activities are those educational activities specifically regarding the areas of research in which the Ph.D. programme as well as the Departments are articulated.

Moreover, the activities of the Ph.D. in Design include participation in projects taking place within the research team; participation in conferences (as listeners or speakers); writing of scientific papers; participation, as tutors, in teaching activities, in the perspective of an on-going synergy between teaching and research activities.
The Politecnico di Milano was one of the first universities in Italy to establish a School of Doctoral Programmes in 2001 with a view to coordinating, assessing and monitoring the single doctorate programmes. The School offers courses to develop complementary abilities, such as seminars of epistemology, research policy and management, elements of scientific communication, and so on, whereas the single doctorate provides subjects and infrastructures for research, specific education and tutoring.

The Ph.D. degree is the highest level of university education, aimed at developing abilities of Ph.D. candidates through training and research, as well as promoting new entrepreneurial skills. This results in a research thesis with original contributions, enabling them to take up research activities in industrial settings, in the public and private sectors, in public administration, in research centres and in universities. Politecnico di Milano offers Doctoral Programmes in all fields of Architecture, Engineering and Design.

[The Polimi Ph.D. School organizational chart]
The Design Department forms part of the Politecnico di Milano Design System, together with the School of Design, the Ph.D. programme in Design, the Laboratories and the POLI.design Consortium.

Together, they represent one of the most important university bodies in the field of design in existence today at the international level. The Department fosters the process that has established design in an academic context by constantly developing relations and collaborations with other players operating within the Design System, in Milan and Lombardy as well as at the national and international level.

The Polimi Design System

School of Design  |  www.design.polimi.it
BSc and MSc levels

Design Department  |  www.dipartimentodesign.polimi.it
sections, research labs, interdepartmental labs, labs for teaching and services and the Ph.D. programme in Design (phd.design.polimi.it)

POLI.design Consortium  |  www.polidesign.net
higher education courses, training for companies

The Ph.D. programme in Design organizational chart

Director
prof. Luca Guerrini

Deputy director
prof. Paolo Volontè

Steering committee
It consists of the director, the deputy director and 2 professors from the Board

Board of professors
It consists of all the professors of the Design Ph.D. faculty

Design Ph.D. candidates’ representative within the Design Department
Annalinda De Rosa

Luca Guerrini (director)
Paolo Volontè (deputy director)
Alessandro Biamonti (steering committee)
Raffaella Trocchianesi (steering committee)
Giovanni Baule
Paola Bertola
Monica Bordegoni
Giampiero Bosoni
Valeria Luisa Bucchetti
Alba Cappellieri
Paolo Ciuccarelli
Luisa Maria Virginia Collina
Luciano Crespi
Barbara Del Curto
Maria Luisa Galbiati
Fulvio Irace
Pietro Marani
Anna Meroni
Silvia Elvira Maria Piardi
Margherita Pillan
Silvia Luisa Pizzocaro
Lucia Rosa Elena Rampino
Maurizio Rossi
Michela Rossi
Giuliano Simonelli
Carlo Arnaldo Vezzoli
Francesco Zurlo
The main aim of all Politecnico di Milano Ph.D. programmes is the development in the candidates of a research-oriented mind-set, with expertise and skills in a specific research topic. To this end, candidates develop a problem-solving capability in complex contexts, including the capacity of performing deep problem analysis, identifying original solutions, and evaluating their applicability in practical contexts. These skills provide the Ph.D. candidates with major opportunities of development in their research both in the academic field, and in public and private organisations.

Ph.D. candidates are requested to develop an original research contribution. The Ph.D. thesis must thus contribute to increase the knowledge in the candidate’s research field. Besides, it has to be coherent with the research topics developed in the Department where the Ph.D. programme is carried out.

The original research results are collected in the Ph.D. 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 Ph.D. programmes and the Ph.D. 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 Ph.D. programme and identify clearly its cultural position, and deepening in a specialist way some research issues connected with the problems developed in the theses.

Lessons are usually held in English, except when indicated otherwise.

Structured training activities allow to earn ECTS credits. Other activities, typically specialised and for which it is difficult to evaluate the learning and its quantification, fall within the scientific activities which the Board of Professors takes into account in the overall evaluation, but they do not allow to earn ECTS.
The Design Ph.D. curriculum calls for candidates to accumulate a total of 75 academic credits.

For the admission to the final exam acquisition of at least 75 credits is mandatory.

These 75 credits must be acquired via the characterising courses, the interdoctoral courses (research training) and the specialist activities provided by the educational programme:

- from 40 to 45 through course attendance
- from 25 to 30 through other academic activities, e.g. participating in the Research Team activity, teaching and tutoring activity, etc.

For admission to the second and the third year, the acquisition of at least 20 credits (per year) is mandatory.

The third year should be entirely devoted to the development of the thesis.

The table in the next page illustrates the curriculum that each Ph.D. candidate must complete, in terms of the attribution of academic credit. At the same time, the candidate will be required to carry out research under the guidance of his/her supervisor and the Design Board of professors.

Presentation of the study plan
During the first semester of enrolment, the candidate has to submit a study plan, which may be revised periodically (approximately every three months), in order to adequate them to possible changes in the course list, or to needs motivated by the development of his/her Ph.D. career.

This is to be done through the dedicated Politecnico di Milano online procedure (Online Services) at www.polimi.it/servizionline.
a. Ph.D. THESIS WORK

1st year

- Mid-term assessment:
  - 5 ects 31 Jan-17 Feb 2017
    - Research methodologies in design
      - Paolo Volonté - Davide Spallazzo
  - Annual assessment:
    - for the admission to the 2nd year

2nd year

- Mid-term assessment:
  - 5 ects 29 Mar-21 Apr 2017
    - Design for social innovation
      - Davide Fassi - Teresa Franqueira
  - Annual assessment:
    - for the admission to the 3rd year

3rd year

- Mid-term assessment:
  - Annual assessment:
    - for the admission to the final exam

b. RESEARCH TRAINING

1. Characterising courses offered by the Ph.D. programme in Design
   - 5 ects 29 Mar-21 Apr 2017
     - Design for social innovation
       - Davide Fassi - Teresa Franqueira
   - 5 ects 15 May-30 Jun 2017
     - Tools for research in design
       - Anna Meroni - Lucia Rampino - Cabirio Cautela
   - 5 ects 1-30 Jun 2017
     - Research in design, Academic case histories
       - Raffaella Trocchianesi - Carlo Vezzoli
   - 5 ects 19-23 Jun 2017
     - Networked innovation for design fields
       - Silvia Pizzocaro - Erik Von Bohemia

2. Characterising courses offered by the Ph.D. School
   - One doctoral school course (+) 5 ects

3. Interdoctoral courses offered by the Ph.D. School
   - tot 30 ects

- 5 ects
  - Research activity within the research team
    - 5 ects
  - Specialist course
    - 5 ects
  - Paper publication
    - 5 ects
  - Tutoring and teaching activity (1st or 2nd year)
    - 5 ects

- tot 5 ects

- tot 5 ects

- Research activity within the research team
  - 10 ects
- Internship abroad (2nd year - beginning of the 3rd)
  - 10 ects
- Specialist course (optional)
  - 5 ects
- Paper publication (optional)
  - 5 ects

- tot 30 ects

- tot 40 ects

- tot 75 ects

* Recommended interdoctoral course: Scientific and Scholarly Writing
  - Ken Friedman - Luca Guerrini | 16-27 Jan 2017 | 5 ects
  - (other suggested courses > p.25)
a. Ph.D. THESIS WORK

mid-term assessment (May)

Each year, at the end of the first semester, candidates submit their work on the Ph.D. thesis to a commission composed by members of the Department Section of affiliation and to representatives of the Board, in order to assess the progress of the thesis.

The Ph.D. candidate is required to prepare
- a slide presentation (following the format that will be provided)
- a provisional index of the thesis
- an abstract of the research topic

The assessment is structured as follows
- the Ph.D. candidate submits his/her work to the commission through a slide presentation (following the format that will be provided)
- the presentation lasts 15 minutes for candidates of the 1st year and 20 minutes for candidates of the 2nd and 3rd year

Steps of the presentation

1st year
- provisional index
- structure of the thesis and sections of contents
- theoretical requirements: critical and theoretical assumptions and scientific/design context
- research field, design setting and focus
- general and specific objectives
- methodology (phases, interpretative models adopted, ...)
- future actions
- bibliography
- list of the candidate’s activities and titles (participation to conferences, as both attendee and speaker, or research projects, seminars, workshops, etc.)
- candidate scientific production (publications)

2nd year (highlight what has not been provided in the previous assessment)
- provisional index
- structure of the thesis and sections of contents
- theoretical requirements: critical and theoretical assumptions and scientific/design context
- research field, design setting and focus
- general and specific objectives
- methodology (phases, interpretative models adopted, ...)
- focus of the project
- outcomes achieved
- future actions
- bibliography
- list of the candidate’s activities and titles (participation to conferences, as both attendee and speaker, or research projects, seminars, workshops, etc.)
- candidate scientific production (publications)

3rd year (highlight what has not been provided in the previous assessment)
- provisional index
- structure of the thesis and sections of contents
- theoretical requirements: critical and theoretical assumptions and scientific/design context
- research field, design setting and focus
- general and specific objectives
- methodology (phases, interpretative models adopted, ...)
- focus of the project
- outcomes achieved
- factors of innovation and originality of the research
- future actions
- criticalities
- bibliography
- list of the candidate’s activities and titles (participation to conferences, as both attendee and speaker, or research projects, seminars, workshops, etc.)
- candidate scientific production (publications)
At the end of each year candidates submit their research activity with their supervisor to a committee of the Ph.D. board.

The Ph.D. candidate is required to prepare a dossier (following the format that will be provided), which purpose is to illustrate in a structured way the research progress.

The dossier is structured as follows

a. a provisional index of the thesis
b. core of the dossier (approximately 10 pages) with an in-depth description of the structure of the thesis, critical and theoretical assumptions and scientific/design context, research field, design setting and focus, general and specific objectives, methodology and future actions (following the format that will be provided)
c. bibliography
d. list of the candidate’s activities and titles (participation to conferences, as both attendee and speaker, or research projects, seminars, workshops, etc.)
e. a list of the scientific production (publications)
g. a copy of the scientific publications listed, both published or in press, (essays, papers, articles) and titles (i.e. participation in conferences or research projects).

annual assessment (October)

The assessment is structured as follows

- each Ph.D. supervisor is asked to show up together with his/her own candidate. The supervisor will briefly comment the research activity and the global effort of the candidate within his/her research group
- the committee will evaluate the candidate productivity on the basis of:
  - Courses attendance and marks
  - Scientific publication, participation in conferences and research projects
  - The supervisor’s evaluation on the candidate’s global activity within the research team s/he belongs to.
  - The supervisor’s evaluation on the progress in the candidate’s Ph.D. thesis.

Evaluation

As a result of each successful annual evaluation, the candidates receive an evaluation (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 Ph.D.” (Ei).
_ _ 3rd year: steps

The process will be illustrated more specifically at the beginning of the 3rd year.

1. Indication of 2 External Examiners*

2. Plagiarism check** of the thesis***

3. Thesis*** delivery

4. Assessment

5. External Examiners evaluation

6. Send the final version to the Examiner

7. Final thesis delivery

8. Final exam

_a. Ph.D. THESIS WORK_

* Selected by the Ph.D. candidate together with his/her supervisor

** Through the Turnitin software provided by the Ph.D. School

*** Version of the thesis as close as possible to the final one

_b. RESEARCH TRAINING_

_ _ the courses

The list (programmes and general information) of the courses offered every academic year are listed online:
dottorato.polimi.it > "during your Ph.D." section > "Ph.D. level courses" section

The characterizing courses
In the Ph.D. programme in Design, Characterising Courses provide 30 of the 40 credits related to structured teaching activities. Candidates are required to take courses; assessment procedures will be specified by the professors in charge of the courses.

The Interdoctoral Courses
The Ph.D. School organises general and Interdoctoral courses every year. The suggested Interdoctoral courses for the A.Y. 2016/17 are:

* Scientific and Scholarly Writing, Ken Friedman - Luca Guerrini | 16-27 jan 2017

* Interactive virtual prototyping, Methods and tools, Monica Bordegoni | 10-14 jul 2017

* Collaborative research methodologies, Abraham B. Shani, David Coghlan | 16 jan-22 mar 2017

The acquisition of at least 5 credits is mandatory.

Specialist Courses
5 of the mandatory credits can be obtained by choosing from Interdoctoral courses organised by the Ph.D. School, or among other courses provided by other Ph.D. programmes of the Politecnico and/or external entities. In choosing these courses, prior approval of the supervisor and of the Ph.D. Director is mandatory. 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 Board of professors and previous approval of the study plan submitted by the candidate. The acquisition of at least 5 credits is mandatory.
c. SPECIALIST ACTIVITIES

_ _ research activity within the research team

The Ph.D. candidates are required to participate in their research team activities, such as collaboration in research projects, organization of seminars, events and other educational/research activities.

The candidate’s participation has to be validated by the supervisor and is recommended to be accomplished during the first year (5 ects) and the second one (10 ects).

_ _ tutoring or teaching activities in a course or a design studio

Participating in teaching activities as a teaching assistant or research fellow is part of the ongoing synergy between teaching and research.

Ph.D. candidates are required to participate to 1 course or design studio as tutor during the 1st or the 2nd year.

Fundamental information

* to get the position of tutor within a course or design studio, it is necessary to apply the official call for tutoring and teaching activity (www.polimi.it Home > Ateneo > Albo Ufficiale d’Ateneo)
* Ph.D. candidates can accomplish a maximum of 40 hours per year
* the tutoring activity has to be validated by the supervisor.

_ _ paper publication

The production of scientific publications is an important opportunity to further the understanding of the research in progress and to be part of an international exchange of ideas.

The scientific production of an university is a fundamental element to spread the scientific knowledge and research topics developed in each department.

For Ph.D. candidates

* 1 scientific publication (in English, single author) is required (5 ects) and
* another scientific publication (in English) is an optional activity (see “educational framework”, p.18-19) and can be multi-author

* the publication of 3 scientific papers is recommended over the three years (including at least one in English, single author) to support and further the research in progress
* the publication of scientific papers has to be validated by the supervisor

The IRIS-Re.Public@Polimi online platform

Every year, the Polimi staff (professors, research assistants, Ph.D. candidates, post-doc fellows, study grant fellows, technical & administrative staff) is asked to upload their publications on the IRIS online platform (Institutional Research Information System), which is linked to the Ministry of Education, Universities, and Research (MIUR).

Re.Public@Polimi is the institutional repository where research publications produced by scholars and researchers at the Politecnico di Milano are collected and maintained. It is based on IRIS, the new IT platform that makes it easy to collect and manage data on research activities and outputs.

>>>
The annual deadline to upload the publications on the IRIS catalogue is communicated by the Department.

**Fundamentals**

- only products that show an explicit statement of the author’s affiliation with Politecnico di Milano can be uploaded on the IRIS catalogue
- only products that have actually been published can be uploaded on the IRIS catalogue
- conference papers have to consist of more than 6000 char. spaces included
- book contributions have to consist of more than 17000 char. spaces included
- complete information about the publication must be provided
  - the uploaded file (PDF, max 10Mb) must be composed by cover + back cover + colophon + whole contribution + the scientific committee

The complete guidelines on the evaluation procedure for scientific credentials are provided on the Polimi Intranet (www.polimi.it > intranet or www.intranet.polimi.it > Come fare per > Ricerca > Pubblicazioni > Catalogo prodotti della ricerca).

The procedure to upload the publications on the IRIS online catalogue is accessible through the Online Services (www.polimi.it).

Contact office for the IRIS-Re.Public@Polimi online platform
Research Support Office
produzionescientifica-design@polimi.it

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**c. SPECIALIST ACTIVITIES**

_ _ internship abroad

The Ph.D. programme favours the candidates’ research interactions with other groups in their research field, preferably abroad. Research visits of at least three months are strongly encouraged, as through them the candidates may acquire further skills to develop their research work and thesis. During the Ph.D. programme in Design all candidates are strongly recommended to engage in this activity, which is compulsory for those who are supported with a scholarship (specific cases to be discussed with the Director of the Ph.D. programme in Design). Candidates not supported with a scholarship who, for good reasons, cannot go abroad, are permitted to substitute the internship abroad with an additional specialist course and an additional paper publication (see “educational framework”, p.18-19).

**Fundamental information**

- complete period abroad: 6 months (10 ects)
- minimum period abroad: 3 months (5 ects)
- it is allowed to stay abroad more than 6 months (up to 18 months); the number of ects will not increase
- for periods abroad of more than 3 months, the authorization of the Board is necessary and should be asked through the secretariat
- to activate the exchange is necessary a signed invitation letter from the university/research centre, specifying the period dates and a short description of the activity that will be accomplished by the Ph.D. candidate. An invitation letter is necessary for each period abroad
- the internship can be done in more than 1 institution
- it is important to make a request for a Mission Assignment Form on the Online Services before leaving

**Ph.D. candidates with scholarship granted by the Politecnico di Milano**

- the internship is compulsory
- for the periods spent abroad (lasting a minimum of ten days and a maximum of 6 months) the scholarship is increased of 50%. To get the increase of the scholarship, candidates have to download the form (www.dottorato.polimi.it > During your Ph.D. > Periods abroad and stages > Periods abroad)
- the scholarship increases of 50% for a maximum of 6 months
The Ph.D. 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 supports the candidates over all their training career.

**The supervisor**

★ assists the candidates in the choice of courses to be included in a study plan, which must finally be approved by the Director of the Ph.D. programme in Design.

★ assists the candidate during the mid-term assessment (May).

★ is asked to show up together with his/her own candidate during the annual assessment (October) and to briefly comment the research activity and the global effort of the candidate within his/her research group.

★ is asked to validate
  ▶ the annual assessment dossier
  ▶ the research activity within the research team
  ▶ the publication of scientific papers
  ▶ tutoring or teaching activities in a course or a design studio

★ assists the plagiarism check of the final version of the thesis through an Internet-based plagiarism-prevention service provided by the School.
For Ph.D. candidates admitted with and without scholarship
(with the exception of the Ph.D. candidates admitted through CSC-Cina, VIED-Vietnam, agreement and co-tutorship)

According to newly adopted regulations, from the 2nd year Ph.D. candidates are allowed to access to the endowment of € 2,740.00 (€ 1,370.00 per year) at their disposal.

The access in advance during the first year is possible prior request to the Director of the Ph.D. programme in Design.

The doctorate administration will refund expenses related to activities that support the Ph.D. research in Italy or abroad, to the extent of the amount presented above.
Contacts and websites

Ph.D. programme in Design
Design Department - Politecnico di Milano
via Durando 38/a
20158 - Milano

Director of the Ph.D. programme in Design
Luca Guerrini
luca.guerrini@polimi.it

Ph.D. Secretary Office
Simona Murina
Department of Design
Phone: +39.02.2399.7245
Fax: +39.02.2399.5968
segreteriadottorato.design@polimi.it

Ph.D. candidates’ representative within the Design Department
Annalinda De Rosa
annalinda.derosa@polimi.it

Welcome kit by
Raffella Trocchianesi and Annalinda De Rosa

Websites

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<th>Politecnico di Milano</th>
<th><a href="http://www.polimi.it">www.polimi.it</a></th>
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