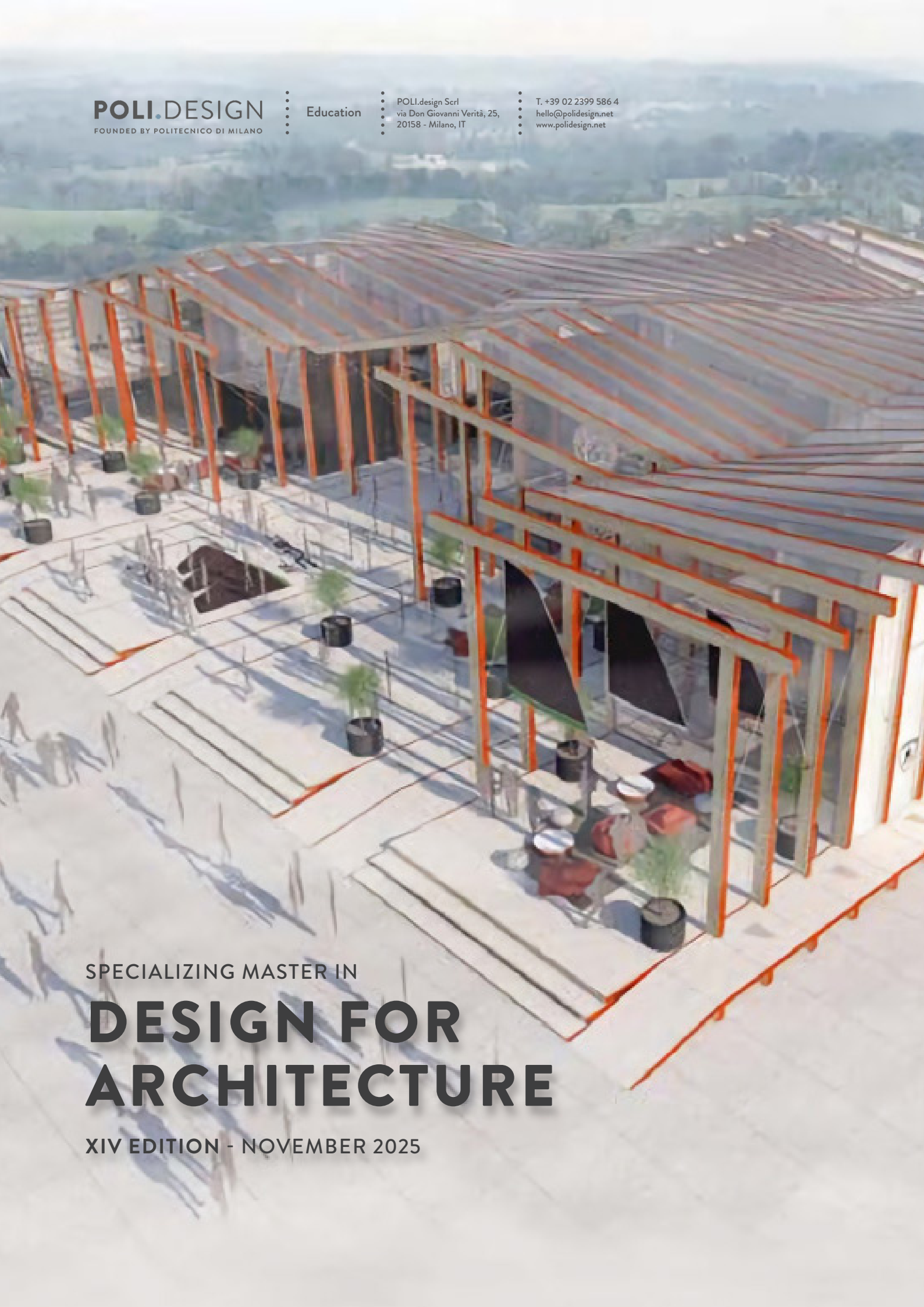


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• Education  
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• POLI.design Srl  
• via Don Giovanni Verità, 25,  
• 20158 - Milano, IT

• T. +39 02 2399 586 4  
• hello@polidesign.net  
• www.polidesign.net



SPECIALIZING MASTER IN

# DESIGN FOR ARCHITECTURE

XIV EDITION - NOVEMBER 2025

# DESIGN FOR ARCHITECTURE

*SPECIALIZING MASTER OF POLITECNICO DI MILANO MANAGED BY POLI.DESIGN*

**Future designers, architects and engineers** will face the great challenges of the **ever-changing design and building sector** at local and global level, in terms of **competition, development and modernization**.

They shall be able to develop **new ideas in the field of real estate**, by designing solutions that embed **advanced building components** and display **innovative layout designs**. In particular, the field of interest concerns **temporary buildings** and events, **reconversion of buildings** and **building components design**.

In this perspective, the Specializing Master in Design for Architecture aims to:

- Combine **multidisciplinary competences** to create advanced curricula;
- **Involve companies and professionals** to make the educational experience **as practical as possible**;
- **Refer to Italian cultural and economic assets** to enrich **design competences**;
- Teach how to develop **highly innovative concepts** based on **design briefs given by real companies**;
- Offer a **multicultural environment** to enhance the understanding of global issues.

If you are a designer who wishes to broaden his/her competence toward the building field, an architect who wishes to enrich his/her profile with design competences, or an engineer who wants to widen his/her field of interest, this is the Specializing Master programme for you!

## OBJECTIVES

The D4A Specializing Master educational aim is to train professionals skilful at developing high quality projects in the field that ranges over the architectural layout and the efficiency of the building components.

The Specializing Master has also the objective of completing the training of designers, extending their expertise and problem solving skills with the culture and tools typical of Industrial Design. This aim is sought through an educational course that integrates theoretical knowledge with design studios, vocational activities such as visits to companies and practices and meeting with professionals, and the mandatory internship in architecture and design practices or companies of the building sector.

## JOB DESCRIPTION

The Specializing Master aims at answering to the **ever-changing job market**, that demands professionals able to work within contexts where **multidisciplinary skills** are useful and appreciated. The Specializing Master D4A trains designers able to operate on different canvas and to tackle the challenges of the integrated design into diverse **national and international realities of the building sector**.

## FINAL ASSESSMENT

Politecnico di Milano Specializing Master Diploma in "Design for Architecture". The Specializing Master grants 60 CFU, equivalent to 60 ECTS.

## DIDACTIC COURSE

The Specializing Master has been set up to bring together expertise from two sectors of excellence in Italy: design and the production of building components.

It enables students to combine product aesthetics and functionality with production efficiency in industrial and installation terms by offering them the opportunity to acquire skills specific to Industrial Design based on Italian design/production quality and applicable to the international

market, which are fundamental to dealing with the evolution of the sector.

The Course of study consists of up-front lessons, talks by experts from the various professional sectors, design studio in collaboration with Italian companies, guided visits to partner companies and participation in events and fairs proper to the sector. The program will end with a final design studio and an internship in an design or Architecture practice or company of the building sector.

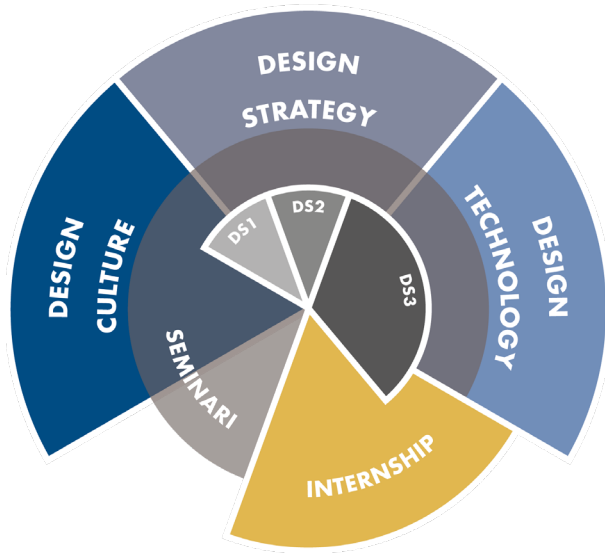
## SUBJECT CONTENT

The program includes three formative areas dealing with different aspects of Industrial Design:

- **Design Culture:** history and evolution of design, with special reference to aesthetic developments and to the ever closer relationship that has been developing over the years between product and built up space.
- **Design Technology:** study of the different technology, materials and tools needed in conceiving and realizing products that combine in a built up environment.
- **Design Strategy:** study of new construction processes, design innovation management and the introduction of design in the corporate strategies of companies in the sector. A fourth area will be added to these: **Design Studio**, which will include practical work in design on various design themes such as:
  - designing finished built-in products, in other words as integratable building components;
  - designing electronic consumer products and space saving products that are highly intergratable with building manufacturing;
  - designing serial construction products, e.g. for temporary structures and modular building solutions.

Such tasks may be individual or in teams and may envisage the participation of a leading companies in the sector of reference. The assessment achieved will constitute the basis for final marking.





## DURATION

The Specializing Master lasts one year for a total of 480 hours. The Specializing Master schedule includes: lectures (theoretical lessons and practical exercises, guided tours, meetings with professionals) and design studio.

During periods in which design studio are held, some days will be let free for individual work to allow students to develop their projects.

## COURSE OF STUDIES

The course is divided into 11 thematic modules plus a design module and an internship reaching a total of 60 credits. The thematic modules are:

**1 - History of Design and Architecture:** general overview on the historical evolution of industrial design, within which it is highlighted the relationship among man-object-space. The interpretation is, in fact, the investigation of the relationship between the design of built space and the design of the products contained, integrated or anyway related therein.

To this regard will be the theme of language and craft production, proto industrial and industrial.

## 2 | Product Design Language

**3 | Design and the Contemporaneity:** acquisition of the framework of knowledge that is necessary to confront with the language of Contemporaneity even during the designing stage. Design is the discipline of Contemporaneity: the critical understanding of the variables relating to the design of new industrial products – even those included in the universe of products for the architecture –, implies a commitment to evolve the to cultural and interpretive skills, which make intelligible that specific meaning of the discipline.

**4 | Design and Innovation:** acquisition of knowledge concerning the concept of innovation in the field of design through lectures, exercises and guided tours. The theme of innovation is explored and expanded from two different perspectives: the design and management, with specialized educational contributions.

**5 | Design Strategy:** acquisition of the skill to implement the process of design integration with the organization and strategy of firms: the process of new products development and the role of design in that process; the innovation process of the contribution of design to the development of an innovative product.

**6 | Materials Technology:** the main families of materials that are applied in industrial production will be analyzed as for: their properties, the potential gained during the transformation processes, the levels of compatibility with other materials, the possibilities of connection and assembly, the strength and durability of building elements. It will provided the information necessary to understand the relationships between the industrial products with the materials that

constitute them. Also the tools for the selection of materials, such as the Cambridge Engineering Selector Design version Consideration, will be shown and provided.

**7 | Production processes of Design for Architecture:** gaining the ability to understand and manage the technical, technological and economic considerations related to production processes and logistics flows of industrial products.

**8 | Built Environment Technology:** acquisition of knowledge on the repertoire of technical elements necessary to identify and design products compatible and integrated to buildings. Acquisition of the ability to design of building components for interiors (interior partitions, metal, plants, decorative elements) and exterior (external vertical closures and their finishes: curtain walls, skylights, natural and artificial stone materials) starting from their function in the building up to the constraint of implementation and cost.

**9 | Seminars:** meeting with teachers and professionals coming from the business world. The seminars will be focused on the relationship between Design and Architecture and the evolving role of design in the innovation of buildings.

**10 | Design Studio:** design activities like workshops will be divided into three design studios. The theme of the design studios will be defined with companies that produce industrial products for the built environment. Also the studios will tackle themes of increasing complexity so to gradually develop increasing design skills.

**11 | Internship:** a training period will be attended at design or architecture professional practices or companies of the building sector.

## DIDACTIC ORGANIZATION

- Hours lectures: 288
- Hours design studio: 192
- Hours of internship: 480
- Individual work: 540
- Total hours: 1500

All the lessons and workshops will be held in English.



## STUDENT OBLIGATIONS

Attendance: a maximum of 25% absenteeism is consented.

## TARGET STUDENTS

The D4A Specializing Master program is intended for graduates in Industrial Design, Engineering and Architecture who wish to extend their education and gain skills in a specialized project area.

## ADMISSION REQUIREMENTS

The D4A Specializing Master is intended for graduates in Industrial Design, Architecture and Engineering, or for those who hold an equivalent diploma from outside Italy. A good knowledge of English is a fundamental requirement. Maximum number of places available: 25 students.





## SCIENTIFIC MANAGEMENT

Director: Matteo O. Ingaramo  
Associate professor, Politecnico di Milano

Vice Director: Alessandro Biamonti  
Associate professor, Politecnico di Milano

## COORDINATION

Scientific and educational coordinator: Silvia Maria Gramegna  
Researcher at School of Design, Politecnico di Milano

## SPECIALIZING MASTER BOARD

Matteo Oreste Ingaramo, Alessandro Biamonti, Silvia Deborah Ferraris, Lucia Rosa Elena Rampino, Silvia Maria Gramegna, Michele De Lucchi, Francesco Zurlo, prof. Sergio Danese of 21 Architettura e prof. Aldo Cingolani of Bertone Design.

## SENIOR MEMBER OF THE FACULTY (EDITION I - EDITION IX)

Francesco Trabucco,  
Emeritus professor, Politecnico di Milano

## SPECIALIZING MASTER TEACHING STAFF

The faculty consists of university teachers, professionals from the sector and representatives of companies involved in the Specializing Master who will take part in seminars.

## TO MENTION A FEW:

Alberto Cigada, Full professor, Politecnico di Milano  
Aldo Cingolani, Bertone Design CEO  
Sergio Danese, Architect, 21 Architettura  
Barbara Del Curto, Associate professor, Politecnico di Milano  
Silvia Ferraris, Assistant professor, Politecnico di Milano  
Claudio Germak, Full professor, Politecnico di Torino  
Matteo Ingaramo, Director of the POLI.design  
Fulvio Irace, Full professor, Politecnico di Milano  
Ingrid Paoletti, Associate professor, Politecnico di Milano  
Lucia Rampino, Associate professor, Politecnico di Milano  
Federico Vercellone, Full professor, Università degli Studi di Torino  
Francesco Zurlo, Associate professor, Politecnico di Milano



# KNOW MORE

## **POLI.design**

### **Training Office**

Via Don Giovanni Verità 25, Milano

Tel. +39 02 2399 5911

### **Information**

hello@polidesign.net

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