PhD in ARCHITECTURAL, URBAN AND INTERIOR DESIGN - 33rd cycle

Number of scholarship offered | 4
---|---
Department | DIPARTIMENTO DI ARCHITETTURA E STUDI URBANI

Description of the PhD Programme

The Ph.D. programme promotes studies and research projects concerning the architectural design at different scales the urban space, the building, the interior space enhanced by the analysis and interpretation of the contexts, the investigation of history, theory and critical explorations of architectural design, and an open dialogue with the different disciplinary skills called to deal with the complex development of contemporary architecture.

The aim of the Ph.D. programme is the definition of theoretical and operational tools to foster the development of a critical approach to the understanding of the complexity of buildings and spaces, as well as to acknowledge the concise and strategic values of design in constructing connections between formal structures, utilitarian contents and functional requirements of architectural works and their contexts.

Within the 33rd PhD Programme the following subjects are proposed:

1. Architecture of public spaces and urban design: methods and tools for the design of the ground surfaces in all their articulation; detailed definition of open space morphology and equipment;
   architecture of public buildings: typology, composition, structure and interiors;

2. Regeneration and reuse of urban fabrics: architectural design tools and methods for a sustainable approach to built environments;

3. Design of living spaces and social housing: analysis of dwelling models; historical and current transformation processes; future models and structures of individual and collective living places, with a special focus on the relationship between interior space and furniture;

4. Environmental control and individual well-being: design criteria and tools; simulation and monitoring of the microclimate and environmental comfort (energy aspects, lighting, ergonomics, etc.);

5. Museography and exhibition design: architectural design of museums; display and communication systems; museums, territory, landscape; virtual museum;

6. Landscape architecture: analysis and coordination of cultural, architectural and environmental resources for the enhancement of contemporary territorial man made transformations; study design and testing of the relationships between transport infrastructures and landscapes;

7. New scenarios: multi-scalar, multi-cultural and interdisciplinary nature of contemporary architectural, urban and interior design; innovative typological, spatial and formal models; hybridizations and "neo-places"; dynamics of space-society relationships; the role of cultural
heritage in the age of globalisation, migrations and multiculturalism;
8. Theory, history, philosophy and critique of architectural, urban and interior design.
All candidates will be admitted with the basic departmental scholarships, and the specific research subject will be assigned, with the agreement of the candidate and the Board of Professors of the PhD Programme, within the first years of the PhD activity.
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Research Field: ARCHITECTURAL, URBAN AND INTERIOR DESIGN - PAUI -

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<th>Monthly net income of PhD scholarship (max 36 months)</th>
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<td>€ 1012.0</td>
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<td>In case of a change of the welfare rates during the three-year period, the amount could be modified.</td>
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Context of the research activity

The Ph.D. programme promotes studies and research projects concerning the architectural design at different scales of the urban space, the building, the interior space, enhanced by the analysis and interpretation of the contexts, the investigation of history, theory and critical explorations of architectural design, and an open dialogue with the different disciplinary skills called to deal with the complex development of contemporary architecture. The aim of the Ph.D. programme is the definition of theoretical and operational tools to foster the development of a critical approach to the understanding of the complexity of buildings and spaces, as well as to acknowledge the concise and strategic values of design in constructing connections between formal structures, utilitarian contents and functional requirements of architectural works and their contexts.

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Methods and techniques that will be developed and used to carry out the research

The models and paradigms affecting the development of Western cities during the Industrial Revolution and the subsequent reforms generated in the 20th century in order to meet their specific transformation dynamics seem inadequate to control the current phase of transformation of cities, which features two important aspects:
- The irreversible decline of the built-up model, linked to the concept of consolidated urban polarity development, raising the problem of finding innovative and more advanced models;
- Space and built-up area de-formation phenomena, accelerated by the proliferation of road, transportation and
technological infrastructures which, despite their articulated interconnections, lead to segregation, fragmentation and homologation effects of these areas, deleting the characteristic wealth of their architectural, urban and environmental structures.

- Multiethnic and multi/trans cultural structure of contemporary societies.

The complexity of phenomena affecting sprawling metropolitan areas in and outside Europe, requires architectural and urban disciplines to critically review and the consequent attunement of architectural design theoretical, methodological and application tools in the direction of their inevitable actualization in order to properly identify the transformation and residential dynamics of contemporary cities, aiming at a different approach to the interpretation of the morphology of territories, urban fabrics and architectures , to the definition of typological, utility and communications contents as well as to the technical implementation consistency and the levels of artificiality involved in designing new spaces and articrafts.

The PhD Programme theoretical and design research analyzes the following problem areas:

- Identification of the scales involved in architectural and urban design, historical poles, the consolidated city, internal urban borders and in peri-urban areas where disintegration of the landscape requires a new design of its open spaces;
- Definition of prototypes for new urban functions, design methodologies for new morphological relations between fabrics and networks, regeneration and transformation of diffuse built-up areas and definition of open and built-up public spaces;
- Landscape qualification of large network infrastructures highlighting, in particular, the perception and liveability issue of mutual and separated environments of natural landscapes and technical environments.
• Subject-related issues concerning architectural analyzing and planning suitable scales and in different areas:
  • Theory and history: basic principles of architecture and design; evolution of content, methodologies and planning concepts in different ages and cultural realities, with particular analysis of contemporary issues;
  • Interior design issues (architecture, furnishing, decoration, stage-designing, exhibition design fitting, museography, furniture production);
  • Housing models: history, new trends and future orders of housing (private and common dwellings; public, company and autonomous working precincts; cultural, social, health, sports and leisure services and facilities, open urban area services and structures) in relation to social, economic and cultural developments, technological and informational innovation and formal and aesthetic issues;
  • Architectural space: structure, composition and quality of urban and building space, its connection with the context and its organization; nature and features of sheath and space fitting, and their connections;
  • Environment: features, methods and tools for planning, simulation and monitoring of micro-climate and environmental comfort; study of aerodynamic, material, ergonomic, energy and lighting aspects;
  • Furnishing elements: typology, morphology, technology;
  • Spatial, material, chromatic, tactile and ergonomic value of furnishings and objects; analysis of their connections and relationships with space and surfaces.

Job opportunities

The Programme is aimed to train and prepare highly qualified researchers and professionals, who will work in academic institutions, research centers, public administrations, as well as in the private sector, in the different fields of architectural, urban and interior design.
- Researchers with an excellent scientific profile in the field of complex urban context redevelopment and transformation design interventions;
- Managers in public organizations and agencies at different institutional levels, with a focus on design interventions control/evaluation and/or program development;
- Independent professionals qualified in the management of highly complex design processes;
- University researchers and lecturers in the scientific fields of the PhD Programme.
- Designers with tasks of high responsibility in institutions and professional structures and leading manufacturers, engaged in traditional residential and special utilities, office, cultural institutions (museums, libraries, universities, schools, cultural centers), public and private services, commercial networks, accommodation and leisure;
- Interior consultant in the areas mentioned above with a high level of innovation in technology skills, ergonomics, energy conservation, lighting, and corporate image;
- Researcher and lecturer in the field of Interiors for the needs of higher education scientific and educational institutions and universities, most notably the new levels of graduate school of architecture, building engineering - architecture and industrial design;
- Programmer and designer of scientific restoration and enhancement of historic buildings involving the field of interiors;
- Promoting the project to research and development agencies and centers or public institutions operating in the field of furnishing products, capable of processing and managing local and international cooperation programs with a significant socio-economic value, which involve the coordination of business institutions and the development of experimental and applied research projects at various levels, including cultural aspects of growth and dissemination of knowledge both in the production context and on the social front.

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<tr>
<th>Composition of the research group</th>
<th>10 Full Professors</th>
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<tr>
<td></td>
<td>8 Associated Professors</td>
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<td>1 Assistant Professors</td>
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<td>26 PhD Students</td>
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<tr>
<td>Name of the research directors</td>
<td>Luca Basso Peressut</td>
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</tbody>
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Contacts

Contact of the Coordinator:
e-mail: luca.bassoperessut@polimi.it
tel. +39 022399.5035

Contact in the PhD Office at DASTU:
dott.ssa Marina Bonaventura
E-mail marina.bonaventura@polimi.it;
tel. +39/02/2399.5165

mrs. Marilena Mastalli
E-mail: marilena.mastalli@polimi.it;
tel. +39/02/2399.5405

Additional support - Financial aid per PhD student per year (gross amount)

| Housing - Foreign Students | -- |
| Housing - Out-of-town residents (more than 80Km out of Milano) | -- |

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other informations

List of 5 Universities, Companies, Agencies and/or National or International Institutions that are cooperating in the research:

1. Universidad de Sevilla
2. ETSAB Barcelona
3. Ecole d¿Architecture de Paris Belleville
4. New York Institute of Technology
5. Tongji University Shanghai

Educational activities (purchase of study books and material, funding for participation in courses, summer schools, workshops and conferences):
financial aid per PhD student is:
- per student in the 1st year: **max. 0 euros**
- per student in the 2nd year: **max. 1.370,00 euros**
- per student in the 3rd year: **max. 1.370,00 euros**

Teaching assistantship (availability of funding in recognition of supporting teaching activities by the PhD student)
Various forms of financial aid for activities of support to the teaching practice may be available in the research projects, the didactics, and the Laboratories carried out by the PhD faculty, within the limits allowed by the regulations.

**Computer availability:**
*In the PAUI PhD room are available 2 workstations for shared use, connected with the printer and a plotter.*
All the PhD students can use their own laptop with the wireless connection. Workstations and other equipment are available in the various laboratories linked with the programme.

**Desk availability:**
1\textsuperscript{st} year: one individual desk
2\textsuperscript{nd} year: one individual desk
3\textsuperscript{rd} year: one individual desk