ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI ARCHITETTURA

NUMERO 2
GIUGNO 2019

DEPARTMENT ARCHITECTURE

UNIVERSITY OF BOLOGNA

RASSEGNA DEL DIPARTIMENTO DI ARCHITETTURA DELL'UNIVERSITÀ DI BOLOGNA

ABOUT US

The Department of Architecture was established in 2010, combining the “Aldo Rossi” Faculty of Architecture with the Institute of Architecture and Urbanism of the Faculty of Engineering.
It is therefore a young department, with a teaching staff of an average age of forty.
In terms of teaching and research, it is organized in a multi-campus structure with three operating sites: Cesena, Bologna and Ravenna.

ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI ARCHITETTURA
DIPARTIMENTO DI ECCELLENZA MIUR
(L. 232 DEL 1/12/2016)

DEPARTMENT OF EXCELLENCE:

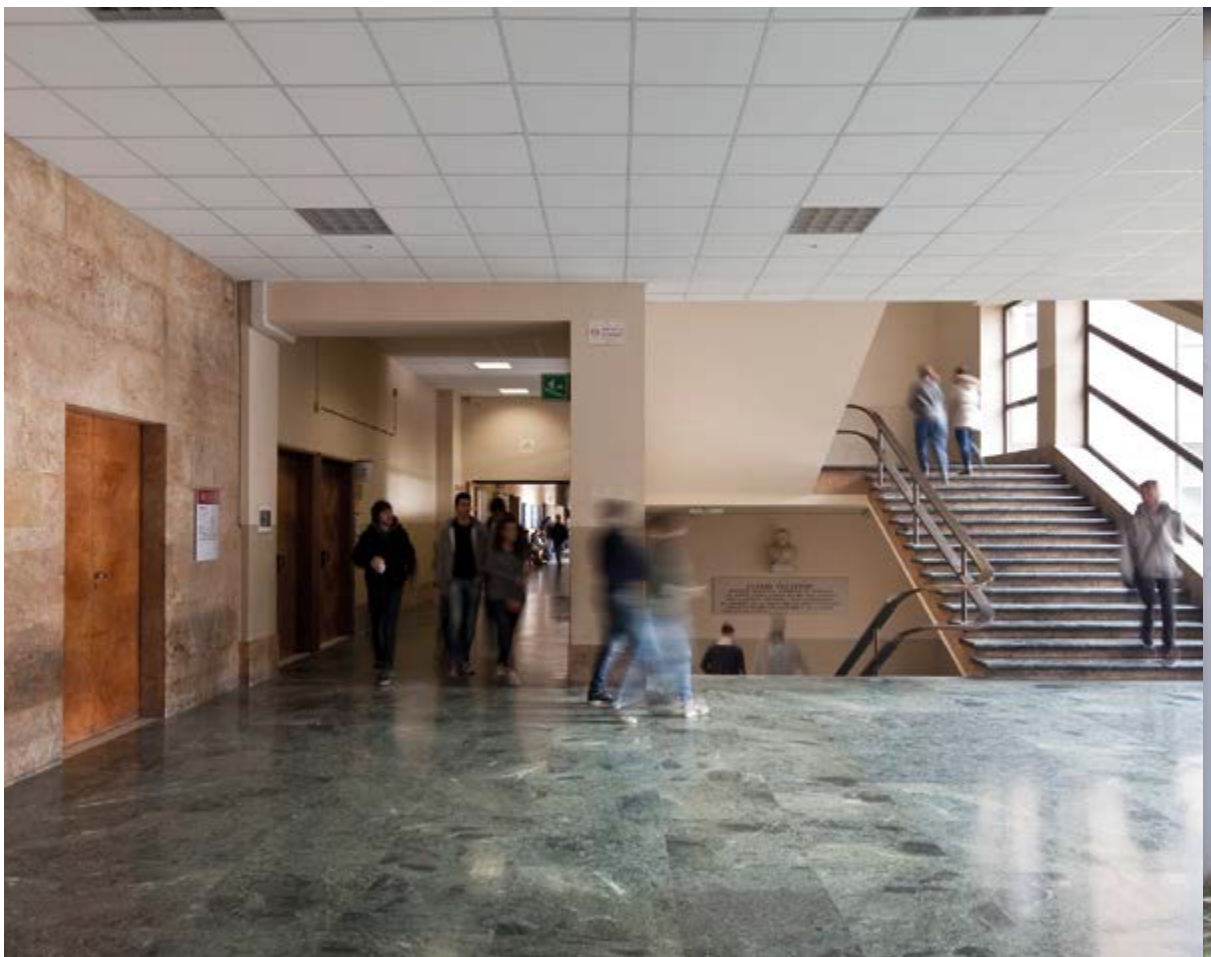
Siteweb: da-labs.it
FB: Dipartimento di Architettura - Università di Bologna

With its new constitution, the Department of Architecture redefined its educational offer in light of the changes currently taking place, as well as the complexity of design and construction processes: it offers courses in the cities of Bologna (Single Cycle Degree/Combined Bachelor and Master Degree in Building Engineering and Architecture; First Cycle Degree/Bachelor in Industrial Design; Second Cycle Degree/Two years Master Degree in Advanced Design), Ravenna (Second Cycle Degree/Two years Master Degree in Building Processes and Systems Engineering), Cesena (Single Cycle Degree/Combined Bachelor and Master Degree in Architecture) and a PhD Program in Architecture and Design Cultures.

The Department’s main research fields include: Design Innovation, Cultural & Living Heritage, Building Performance & Architectural Liveability, Climate & Energy Challenges, and Urban Design.

The Department of Architecture seeks to define networks aimed at enhancing international collaborations in research and training. It promotes Erasmus students and teaching staff exchanges as well as cooperative agreements with universities worldwide, and also participates in projects and initiatives funded by the EU and diverse international activities and research.

In 2018 the Department of Architecture was selected by the Ministry of Education, University and Research among the 180 “Departments of Excellence” of Italian Universities. The project seeks to consolidate and innovate the Department’s identity, updating it in relation to the national and international context in the fields of both research and education. These objectives are pursued through the creation of the “Laboratori di Innovazione delle Culture del Progetto – ICP” (Innovation Labs for Design Cultures) for integrated third-level research and training activities. One of the main objectives of this project is to develop the Department’s internationalisation and funding, focusing on PhD positions for foreign students, workshops and laboratories in collaboration with universities worldwide and the enrolment of foreign professors.



DESIGN INNOVATION

Advanced design

Micro/scale environments

Product service systems and service innovation

Survey & graphic design

Aesthetic of everyday life

Project construction management

Design for all

Partecipation processes

CULTURE & LIVING HERITAGE

Protection, restoration & preservation

Human factor & anthopolocigal anlyses

Communication

Historical analysis & new drivers

Digital heritage

Tourism

Technologies for conservation

BUILDING PERFORMANCE & ARCHITECTURAL LIVEABILITY

New technologies & smart solutions

Human interaction with environmental conditions

Predective analysis for future built environment

Bim

Energy efficiency

Health and safety

Indoor quality

Architectural quality

CLIMATE & ENERGY CHALLENGES

Climate responsive buildings and cities

Resources management & efficiency

Nzeb buildings

Life cycle assesment (LCA)

Renewable resources

URBAN DESIGN

Urban regeneration

Smart cities & communities

Design & shaping no-carbon cities

Outdoor & public spaces

Infrastructures

Waste & water

Urban culture & aesthetic

TEACHING PROGRAMMES

Single cycle degree/combined bachelor and master degree in architecture

First cycle degree in industrial design

Second cycle degree / two years master degree in advanced design

Single cycle degree/combined bachelor and master degree in building engineering and architecture

Second cycle degree/ two years master degree in engineering of building process and systems

Phd programme in architecture and design cultures

Postgraduate courses and summer school


VALOR
BATTAGLIA, INGA
CINQUANTUNA DIVISIONI I
UN REGGIMENTO AMERICANO, CON
LA FULMINEA, ARDITISSIMA AVANZAT
ALLE ARMATE NEMICHE DEL TRENTI
QUELLE DELLA 1ª 6ª E 4ª HA DET
DAL BRENTA AL TORRE L'IRRESI
DIVISIONI DI CAVALLERIA RICAC
NELLA PIANURA S.A.R. IL DUCA D'
ANELANTE DI RITORNARE SULLE PO
L'ESERCITO AUSTRO-UNGARICO E A
NEI PRIMI GIORNI DI LOTTA E NELL
SORTA E PRESSOCHÉ PER INTERO I
TRECENTOMILA PRIGIONIERI CON
I RESTI DI QUELLO CHE FU UNO
SENZA SPERANZA LE VALLI CHE
Timberland
TICKET SHARING
challenge

SINGLE CYCLE DEGREE/ COMBINED BACHELOR AND MASTER DEGREE IN ARCHITECTURE

corsi.unibo.it/magistralecu/architettura

Who we teach

This programme trains professional figures with specific skills in architectural design; urban and landscape planning; structural, technological and environmental design, architectural restoration; conservation and promotion of architectural assets; interior design. The courses are held in the campus of Cesena, a dynamic young branch of University of Bologna.

Skills developed

The single cycle degree programme in Architecture starts with the acquisition of a solid grounding in mathematics, physics, technical and historical subjects and architectural representation, as well as basic training in architectural design.

In particular, the course units in mathematics, physics and technical subjects aim to develop the methodological knowledge and experimental skills required to understand the technical issues related to architectural design. Course units in history of architecture provide the knowledge required for the recognition and critical assessment of works, more specifically related to their form, context and the materials and techniques used. Course units focusing on the representation of architecture and living spaces provide the tools for understanding architecture and developing and communicating design ideas.

The programme includes single-subject course units and workshops to develop design skills in the different areas of architectural and urban design, restoration and structural design, as well as knowledge of the economic and legislative issues connected to all fields of architectural design.

The design workshops aim to assess the knowledge acquired, but also offer the opportunity for integrating the different skills, and are open to the contribution of specialist knowledge relating to contemporary design processes. The ultimate objective is to educate designers able to oversee the formal, constructive, productive and regulatory aspects involved in the transformation of the built environment, on different scales and in different contexts.

What we do

The degree programme is equally divided between theoretical and practical course units.

At the end of the first cycle (years 1 and 2), students are assessed on their mastery of: Architectural theory, Construction, History of architecture, Basic (conventional and computer aided) techniques for architectural representation and Technical project management.

The second cycle (years 3 and 4) provides scientific, technical and professional training in Architectural design and urban planning, Architectural construction and Restoration.

The third cycle (year 5) covers the study of specific topics and subject areas in workshops, as well as the production of the final thesis.

The practical course activities are supported by high-level laboratories: the Cartography Lab, Photography Lab, Fabrication Lab, Digital Visualisation Lab, Construction Materials Lab and Survey Lab.

Job opportunities

Architects can find job opportunities in architectural studios and design firms, municipalities, cultural heritage and historic building conservation agencies and research institutions operating in the following fields:

architectural and urban design

urban planning and landscape architecture

technological, environmental, sustainable design

structural design

building restoration and conservation

interior design

FIVE REASONS TO ENROL

1. At the end of the course you can enrol in the registers of both engineers and architects
2. You will be a professional figure able to competently fulfil the role of professional architect
3. You will have different professional opportunities thanks to a sound both humanistic and scientific knowledge
4. International exchanges and several foreign Visiting Professors let you approach a more European dimension
5. You will be able to use high-level laboratories and equipment

Studios

The five years-Master's Degree Course in Architecture is based on five main fields:

- project design
- knowledge of the history of architecture and the urban history
- drawing and representation
- technology
- construction techniques

The educational and didactic project is organized in two fundamental paths, a theoretical-critical one and a technical-experimental one. Thus the Course is articulated both in lectures, focused on the knowledge of theories and methods, and in Studios, focused on practical and design activities. The Studios are:

DESIGN STUDIO
DRAWING STUDIO
CONSTRUCTION STUDIO
SURVEY STUDIO
HISTORICAL PRESERVATION AND RESTORATION STUDIO
URBAN PLANNING STUDIO
GRADUATION STUDIO

These Studios are an important element of the teaching experience, aimed at achieving a constant collaboration and a knowledge exchange between teachers and students.

In the classrooms/laboratories each student has a personal work table where he/she can develop his/her own projects and experiences, individually or in a team. All the Studios activities are organized as a workshop in which students can deal both on theoretical knowledge and material practice of the architectural and urban design.

In the Cesena Campus is also located the Central Campus Library, open to all researchers and students.

Both the Studios and lectures promote a range of activities (seminars, conferences, workshops, exhibitions and study trips) in which the students have the opportunity to know national and international projects, researches and places.

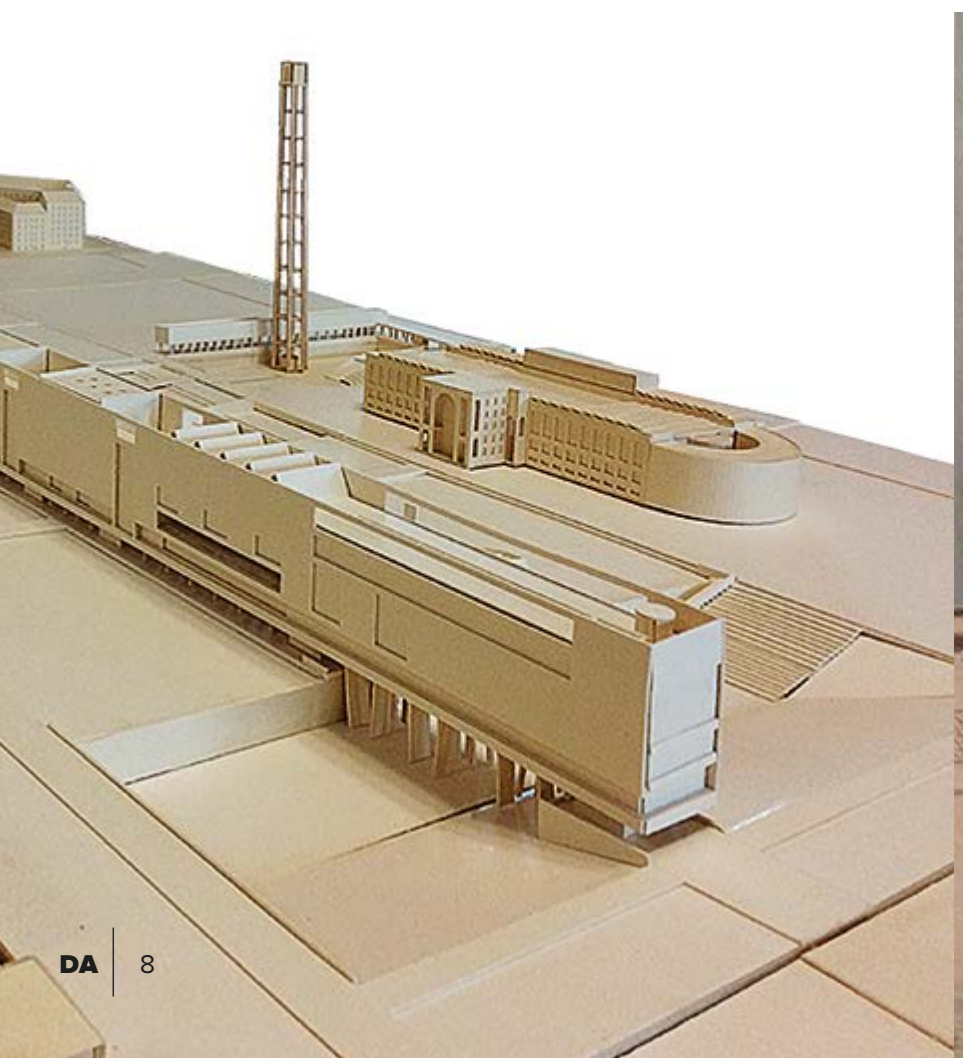
Opening to international design experiences, the Master's Degree in Architecture hosts Visiting Professors from all over the world, who teach in the Design Studio.

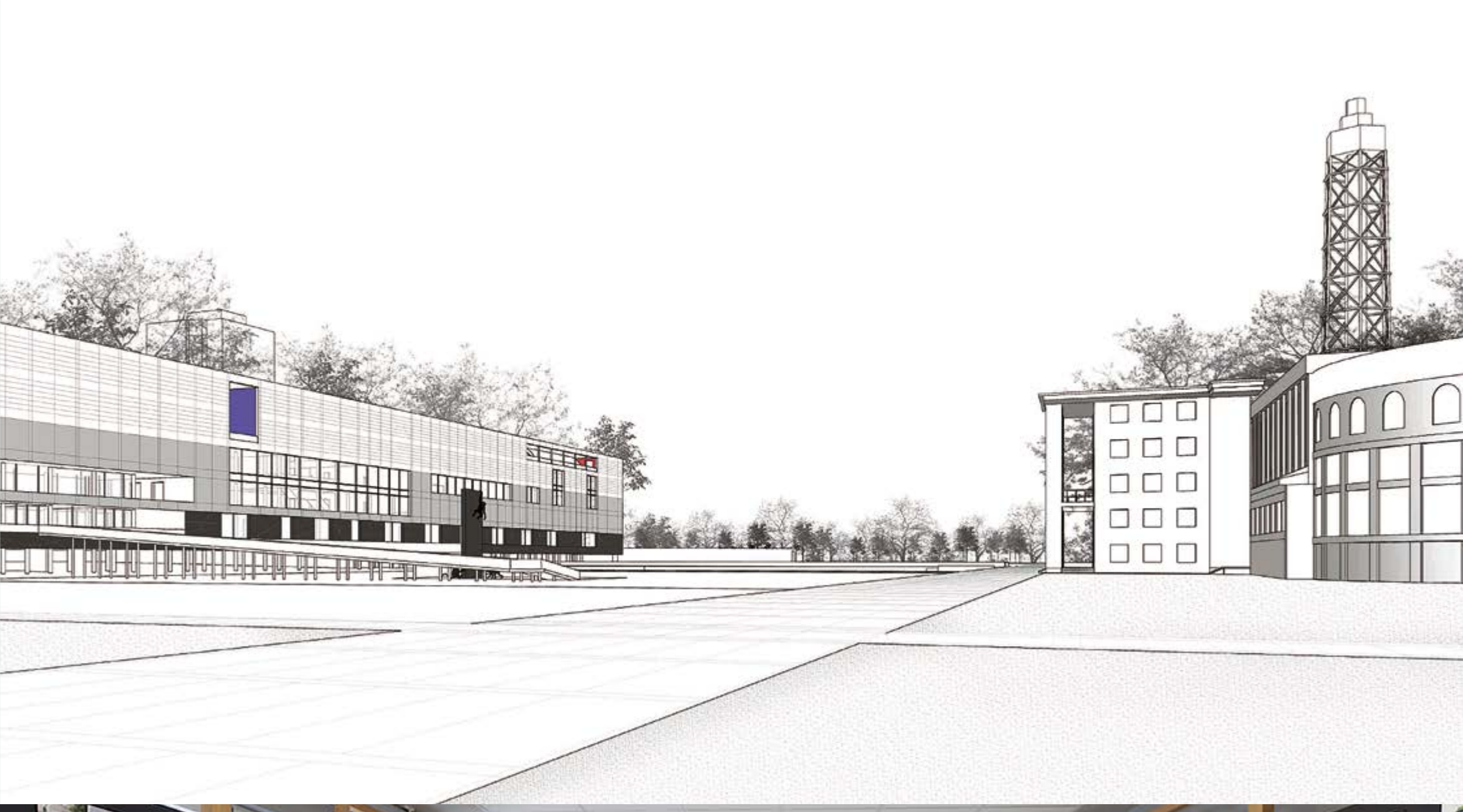
FACTS AND FIGURES

48%
extra-regional and international students

26%
of students graduate after having enjoyed an experience abroad

57%
of graduates find work within a year





FIRST CYCLE DEGREE IN
INDUSTRIAL DESIGN

corsi.unibo.it/laurea/ DesignProdottoIndustriale

Who we teach

An industrial designer manages the entire product development cycle from concept generation to production processes, taking into account the constraints and resources of the social, economic and industrial contexts. With this background, industrial designers can work in design and consulting firms, technical offices, communication agencies, research and development centres of large companies and small and medium enterprises, as well as open their own businesses.

Job opportunities

Industrial designers have job opportunities in a vast range of industrial sectors and creative industries, such as:

Automation, robotics, mechatronics and packaging

Automotive and nautical industries

ICT

Sport and fashion

Furniture and architectural components

Interior design

Graphic and communication design

Health and well-being

1° cycle degree **design**

What we do

We train future designers through studio practice that integrates theoretical-conceptual knowledge with applicative knowledge. The didactic structure includes single-subject courses, for example Materials for Industrial Product or Project Management, integrated courses with two or more subjects, for example History and Aesthetics of Industrial Product or Drawing, Photography and Modelling, and design studios and workshops for product and service development.

The studios are mostly organised in collaboration with companies and institutions.

Students can participate in international exchange programs during their studies, carry out internships in companies or design agencies, and attend talks, conferences and workshops such as the summer school organised by the Design Programmes of the University of the Republic of San Marino.

After the three-year cycle, those who are interested can pursue one of two Second Cycle Degrees in Advanced Design.

Skills developed

Team-work skills to connect design activities with users and companies' needs, production systems, distribution models, communication channels;

Production of technical product analysis reports with different levels of evaluations, i.e. ergonomic, technical, formal, symbolic, environmental and user analysis studies;

Concept generation through the synthesis of technical, aesthetic and theoretical skills;

Elaboration of 2D and 3D models, sketches, drawings, prototypes;

Application of engineering principles for product development.

The First and Second Cycle Degree Programmes in Design are affiliated with the First and Second Cycle Degree Programmes in Design of the University of the Republic of San Marino

SECOND CYCLE DEGREE IN
ADVANCED DESIGN

corsi.unibo.it/magistrale/AdvancedDesign

This programme offers two different curricula:

Advanced Product Design
product design with particular reference to contemporary industrial contexts

Advanced Service Design
service design with particular reference to public institutions, tertiary sector organisations and urban public services

2° cycle
degree
advanced design

Who we teach

An Advanced Product Designer works on the continuous innovation of processes for product development. As a professional, he/she can interpret the strategic trends in contemporary industry and produce solutions that envisage the needs of customers, consumers and users and are at the forefront of technological innovations and lifestyle changes.

An Advanced Service Designer creates innovative services for the strategic development of cities, with their infrastructures, governance models, and the needs of its citizens. He/she can establish connections between people and public and private organisations, and support the meeting of industry, culture, creativity and communities.

Job opportunities

The course's main feature is its multidisciplinary nature that lets graduates acquire skills and knowledge related to:

Industrial sectors

B2B oriented companies

SMEs and start-ups based on the production of systems and components for the industrial sector

Private and public research centres focused on product and service innovation

Public and private service sectors

Service agencies and non-profit organisations that work on urban regeneration and territorial services

Communication and user interface development companies

What we do

Advanced Product Design

The Advanced Product Design programme focuses on design innovation for the creation of new products and services (product-service systems). The design-driven innovation processes implemented by the Advanced Designer benefit from the hybridisation of skills acquired in design studios with managerial skills and a deep knowledge of production processes and new technologies (design management and design engineering).

Advanced Service Design

The Advanced Service Design programme focuses on macro-changes concerning the reorganisation of relationships between urban spaces and users. The curriculum is based on the integration of skills acquired in design studios (design thinking, service design, interaction design, ICT) with theoretical skills for the interpretation of local territories, the contemporary city, cultural and creative processes and field work.

Skills developed

Advanced design understood as the integration between the cultural, expressive, symbolic and emotional qualities of goods or services;

The relationship between ideation and feasibility and the management of production processes and industrial technologies, i.e. the aspects associated with advanced production processes, digital technologies, new materials, so-called industry 4.0;

The centrality of the product-system, design that seeks to connect the material aspect of goods with the immaterial aspect of services and communications, users' involvement and collaboration among the various knowledge areas;

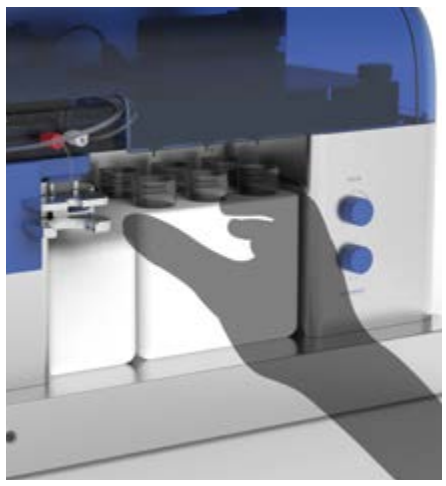
Continuous integration between product and users' behaviour: man at the centre of the project;

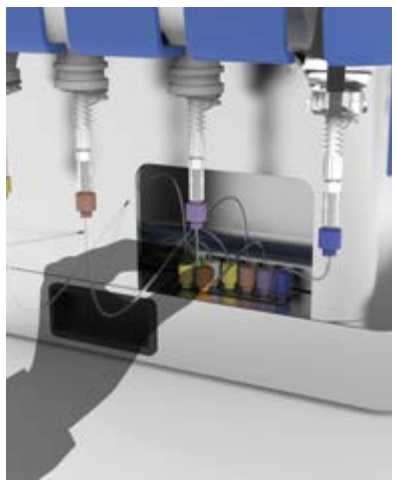
Technologies and digital manufacturing processes, also applied to urban contexts.

Curricular internship & Dissertation-related internship

A curricular internship is an experience which completes students' university education by allowing them to carry out practical work in environments inside or outside the university, in Italy or abroad, and to obtain educational credits with the university which have been included in the course structure of the various degree programmes.

Curricular internships for second-cycle dissertations or for the final examinations of first-cycle degree programmes require students' continuous involvement in the practical work required for the preparation of their final reports or dissertations, on the basis of projects agreed on with their supervisors.





BEST PRACTICES FACTS AND FIGURES IN BOTH FIRST AND SECOND CYCLE DEGREE PROGRAMMES

20
patented theses
in 3 years

12
design studios
collaborating with
companies every year

more than
30
students involved
in extra academic
workshops every year

more than
150
internships every year

Special projects and extraordinary activities

Beyond the usual teaching activities, the courses also offer different forms of experiential learning:

- **full immersion workshops**
- **collaborations with companies and private or public organisations**
- **ad hoc design contests**
- **design focused events and exhibitions**
- **conferences, symposiums, thematic seminars, talks with national and international speakers**

Here are a few examples:

"Design Talks" Conversations around Design

We give space to protagonists, companies, designers and all those who mediate every production process, not just of products.

"Thought and Project" Seminar Cycle

National and international scholars are called to nurture, with their ongoing research, the debate around great challenges of contemporary society. Through the exploration of possible contamination between design as a cultural system and social sciences and humanities, as well as technological sciences, this project aims to go beyond the current problems generated by the separation of knowledge areas.

Bologna Design Week

Bologna Design Week is an annual event organised in Bologna in collaboration with Cersaie (the International Exhibition of Ceramic Tile and Bathroom Furnishings). It was conceived by the communication agency Youtool with the aim of promoting design cultures in Emilia-Romagna.

Workshops

Regular workshops are organised every year which involve students, enterprises, institutions and national and international designers.

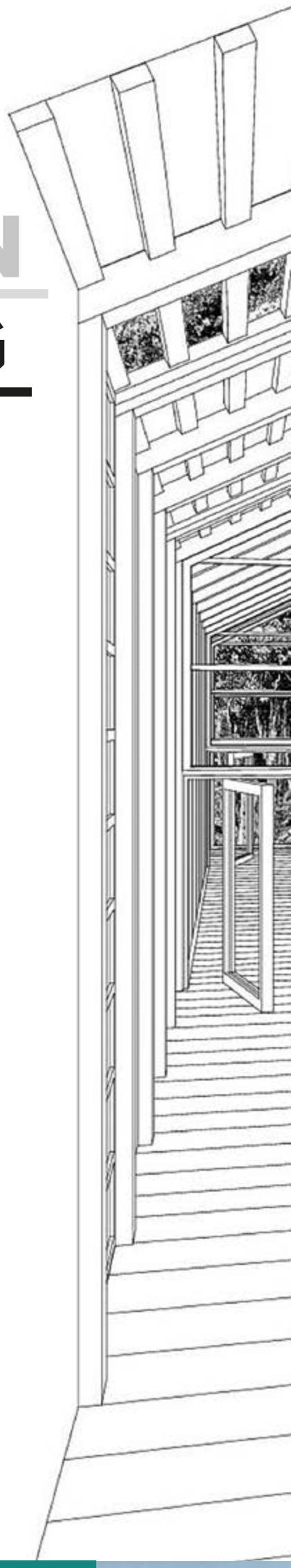
Research: Advanced Design Unit

To face the multiple challenges of complex contemporary phenomena - acceleration, globalisation and sustainability - the relationship between companies, research centres and institutions must be recovered. The Advanced Design Unit of the Department of Architecture offers advanced research for improving the innovation potential not only of companies and public organisations, but also of cities and territories.

SINGLE CYCLE DEGREE/ COMBINED BACHELOR AND MASTER DEGREE IN

BUILDING ENGINEERING AND ARCHITECTURE

corsi.unibo.it/magistralecu/IngegneriaEdileArchitettura



Who we teach

This programme trains a professional figure linking engineering and architecture, strongly oriented to the design and control of construction and production processes.

The training course provides concrete knowledge in mathematical-physical, historical and representation subjects, as well as technological design, structural engineering, architectural and urban planning and the technical-economic evaluation of processes and projects.

Skills developed

Graduates in Building Engineering and Architecture acquire skills related to:

Design: general idea, preliminary design, executive processing of transformations of the built environment and landscape at different scales; management of the project engineering and technical-administrative procedures, construction site management and infrastructure management, drafting safety plans.

They can identify, formulate and solve problems related to the design, implementation and management of complex designing and building interventions within public and private bodies and organisations.

They are able to interact with experts from other sectors and technical operators of different levels, coordinating integrated teams for the design and implementation of complex building interventions, and using tools for planning and protecting the territory at different scales.

They know how to keep up with the methods, techniques, materials and procedures, as required by the continuous evolution of construction industry and urban-environmental regulations.

What we do

The Second Cycle Degree combined bachelor and master Programme in Building Engineering and Architecture curriculum aims to integrate the traditional engineering knowledge focusing on the design of building systems and the production and use of materials, and the control of architectural and urban spaces. It explores architectural traditions concerning design as a synthesis of form, function and construction, as well as the typological, morphological and linguistic features of architectural elements, and the restoration and development of buildings and city landscapes.

The programme includes design laboratories, to ensure integrated learning that is open to dialogue with specialists from different technological and scientific sectors who are involved in the construction and redevelopment of buildings and settlements.

One of the course's objectives is the search for contact and mutual exchange with the world of work, and at the end of the course students are expected to carry out a curricular internship (200 hours-professional training).

Job opportunities

Graduates in Building Engineering and Architecture can find job opportunities in:

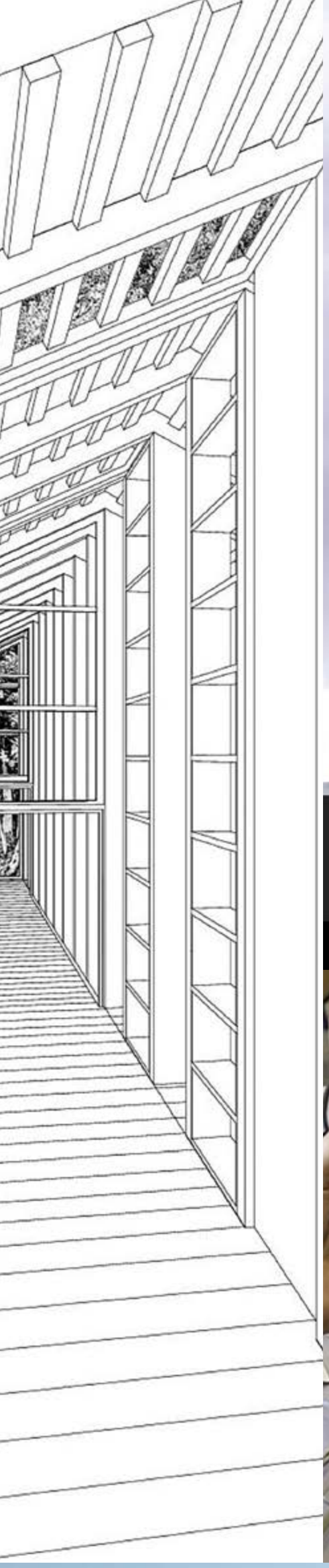
architectural studios and design firms (designers of architectural and engineering works, with the ability to coordinate professional and entrepreneurial structures);

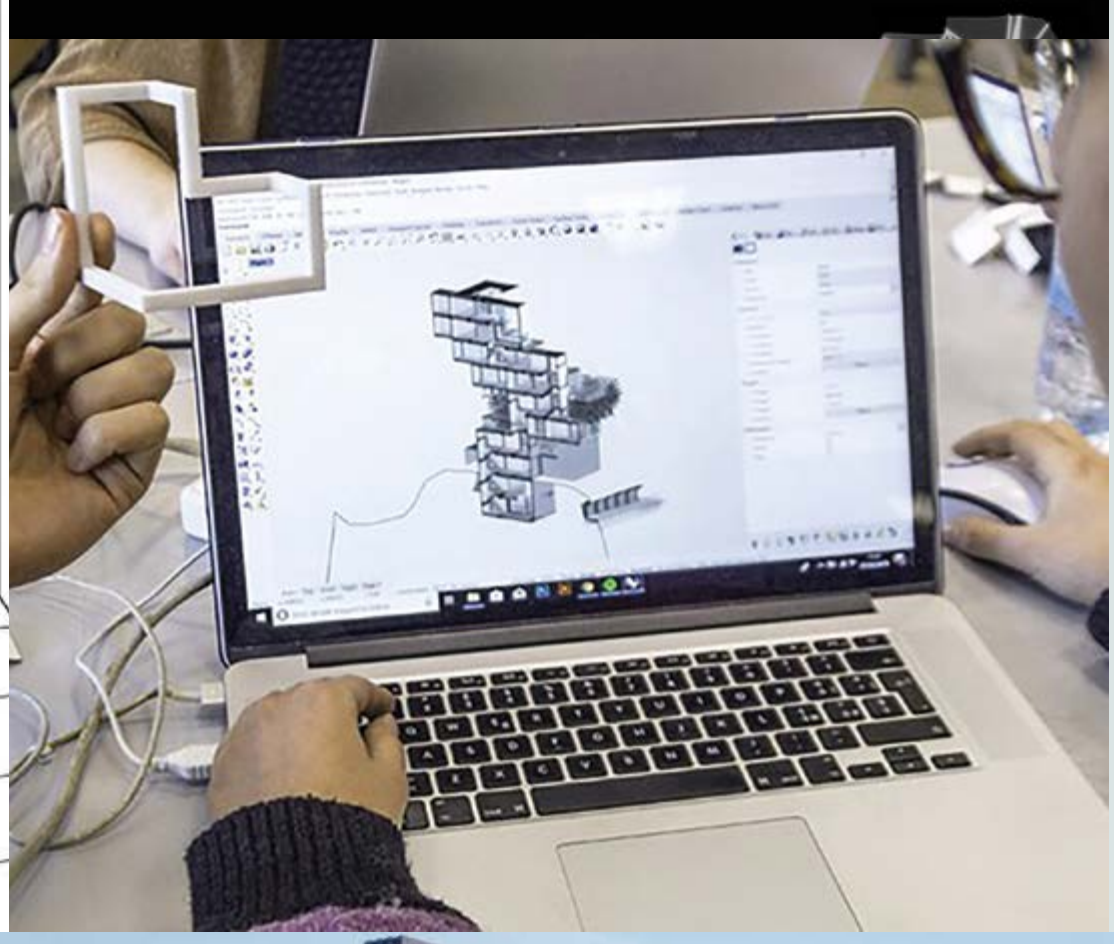
leading architectural and building firms, (project implementation managers, construction site directors and safety plan authors);

municipalities, local and state governments and public authorities.

FIVE REASONS TO ENROL

1. At the end of the course you can enrol in the registers of both engineers and architects
2. The course has design laboratories that teach you to collaborate and work in a team
3. You will acquire multidisciplinary skills, both in engineering and architecture
4. You will acquire skills both in the field of new construction and in the recovery of existing buildings
5. This degree is a passport for a quick and easy access to work





FACTS AND FIGURES

40%
extra-regional and international students

19%
of students graduate after having enjoyed an experience abroad

67%
of graduates find work within a year

73%
of graduates are satisfied with the degree programme

PLAN YOUR FUTURE: HERE'S WHAT YOU CAN DO

Professional building engineer or architect or member of professional studios and/or engineering companies

Building engineer or architect employee of building firms

Building engineer or architect employee of administrations and public authorities

LABS

Bologna Campus

SiLAB
INFORMATIVE SYSTEMS LAB

SiLab is structured through three specific sections: SiLab DoCo, SiLab GIS and SiLab Fabrication.

SiLab DoCo deals with Information Systems for Documentation and Conservation of Cultural Heritage. This section is focused on the production of high-resolution three-dimensional models of either architectural projects, archaeological finds and monumental complexes. Its equipment can carry out high-resolution scans of objects or architectural complexes, process the data acquired with high-resolution images and process a physical reproduction (in scale or in natural size).

SiLab GIS deals with Information Systems for Environmental Preservation (GIS-WebGIS). This section is focused on the representation, management and analysis of the territory. Specific research field also concerns the use and customization of "open source" interfaces already available (pmapper, openlayers, etc.) and testing of WebGIS services (Web Map Service, Web Feature Service, Web Processing Service) integrating these tools with three-dimensional urban modeling (CityEngine).

SiLab Fabrication and prototyping laboratory is an essential training tool in the architectural/engineering/design educational paths. It is focused on the production of the physical model of the project and the prototypes of products, verifying their consistency in order to investigate and monitor the performances.

DiMoRe
DIGITAL MODELING AND REPRESENTATION LAB

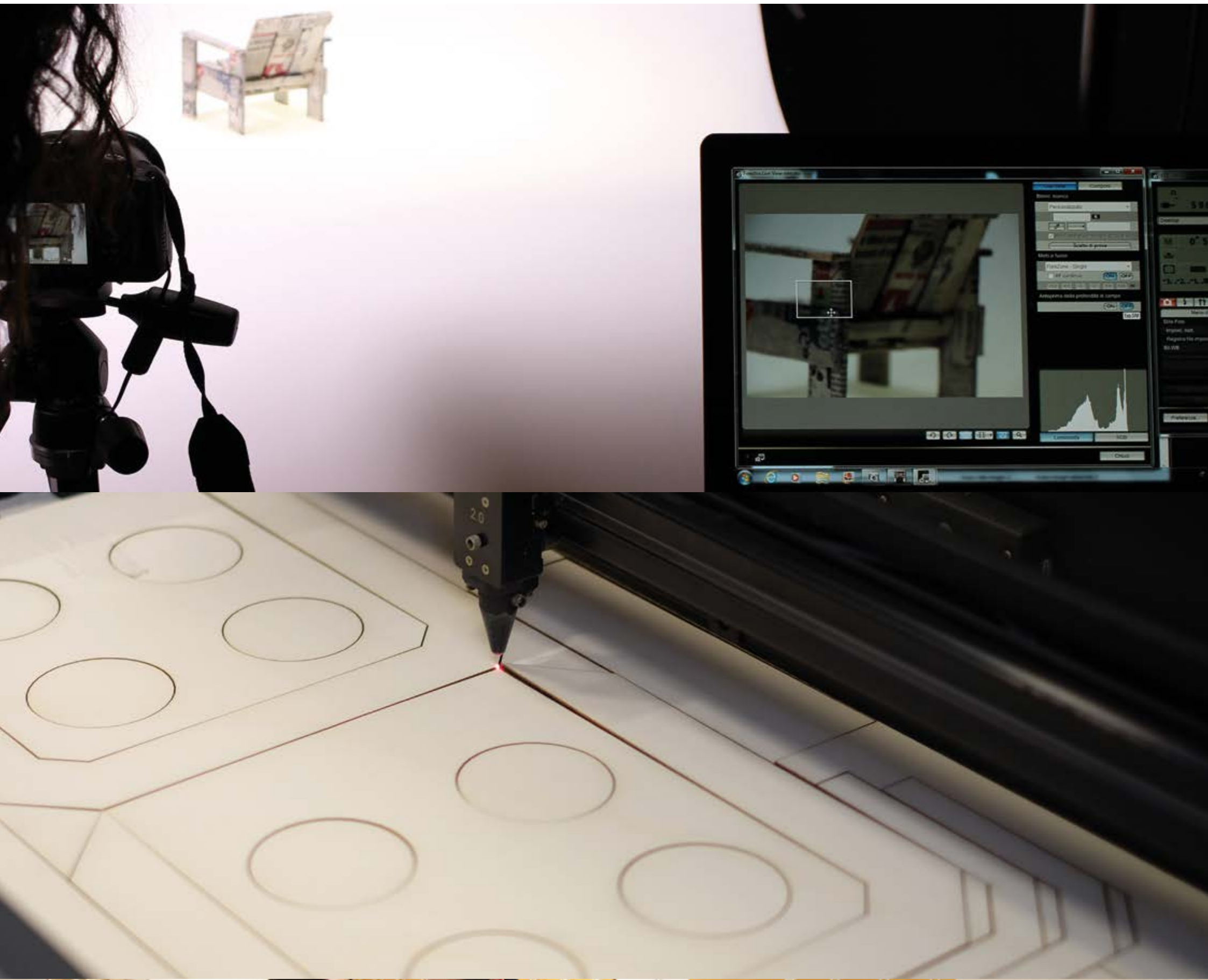
The DiMoRe Lab is focused on digital models for architecture and design, digital reconstructions and reproductions of artifacts, modeling, geometric analysis, multimedia products.

PHOTOGRAPHY LAB

The Photography Lab is focused on documentation, reproduction and presentation, using digital photographs of objects and models and digital acquisitions.

PAM
COMPUTER-AIDED DESIGN AND NUMERICAL MODELING LAB

The Assisted Design and Numerical Modeling Laboratory - PAM is a multidisciplinary laboratory for computer-aided design and numerical modeling.



LABS

Cesena Campus

CARTA Città Ambiente Reti Territorio Azioni
CARTOGRAPHY LAB

CARTA Lab was born in 2006 from the need to acquire, preserve and distribute the cartographic bases necessary for the activities of the Department of Architecture. Over time this function has been accompanied by the development of study and research-action activities, applied in particular to the territory of Romagna, with the aim of transferring the knowledge, tools and methods of planning to an operational level. CARTA supports the research activities of the Department and the teaching activities of the Town Planning Lab-based course (single cycle Degree in Architecture), and acts in collaboration with local authorities, communities and associations.

LAFO
PHOTOGRAPHY LAB

The Photography Lab is equipped to take digital and analogue photographs in exterior and studio, to print in black and white, to take photographs of models and drawings, to make digital prints.

LAMO
FABRICATION LAB

The Fabrication Lab creates urban, architectural and detail-scaled models through both traditional and CAD-CAM technologies. The laboratory manages the design and implementation of models for research programs and agreements and collaborations with public institutions and private firms.

LAMOVIDA
DIGITAL VISUALIZATION LAB

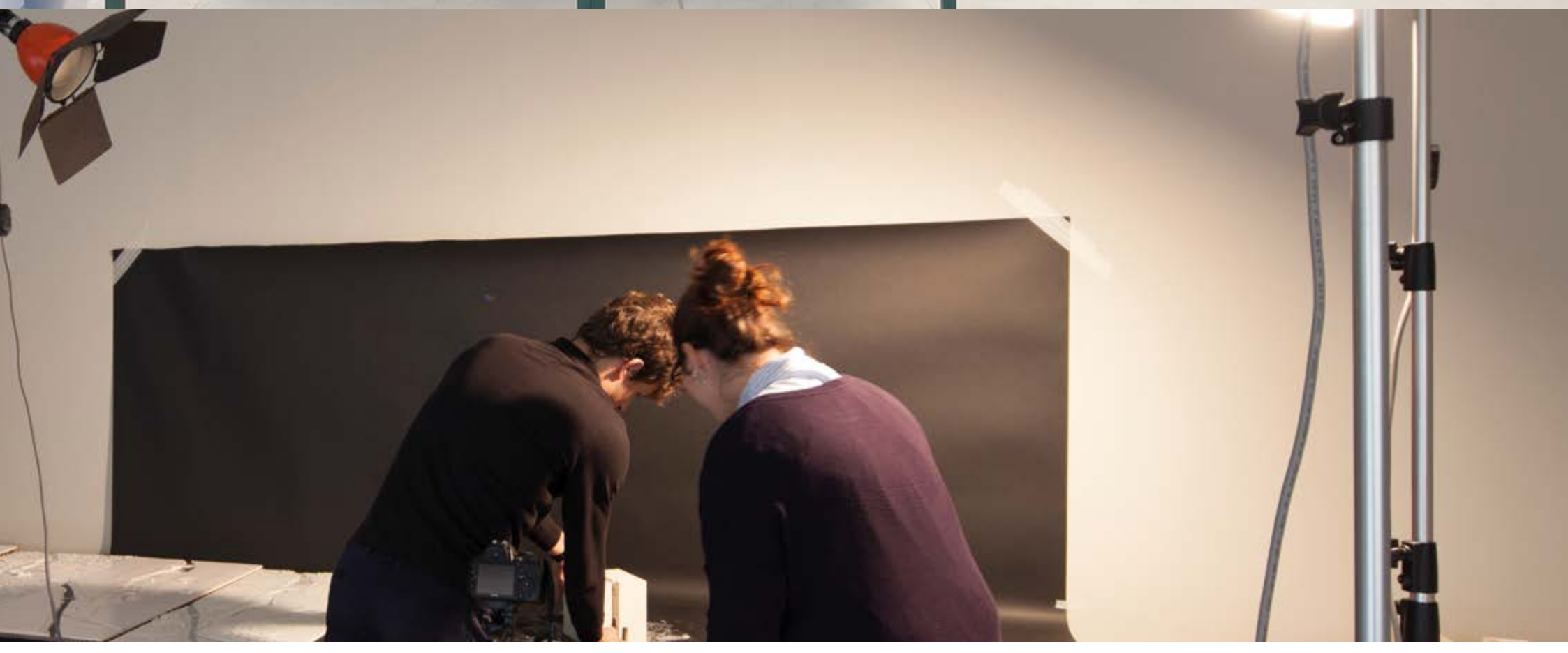
The Digital Visualization Lab was created with the aim of developing technical-scientific research and providing support for the teaching activities of the Department in the area of Digital Modeling and Visualization applied to the field of Architecture and Cultural Heritage.

OFFLINE
CONSTRUCTION MATERIALS LAB

OFFLINE Lab operates as material construction repository and as research center on construction systems and innovative technologies providing support to both teaching and researching activities. Additionally it provides consulting services, surveys on the existing building heritage, promotion of post-graduate and training courses for professionals with the purpose to transfer research outcomes and knowledge about architectural technology into the job market and concrete experiences.

LARAC LABORATORIO DI RILIEVO
SURVEY LAB

The Survey Lab provides support for didactic activities, technical-scientific researches and requests from external clients, in the fields of: digital representation of architecture, urban and architectural survey, creation of digital models thanks to laser scanner survey.



SECOND CYCLE DEGREE/TWO YEAR MASTER DEGREE IN

ENGINEERING OF BUILDING PROCESS AND SYSTEMS

corsi.unibo.it/magistrale/IngegneriaSistemiProcessiEdilizi

Who we teach

The specific goals of the Degree Programme in Engineering of Building Processes and Systems are to train professional figures with a solid basic and specific background. They can hold positions with public authorities and private companies, or work as freelancers in the management, design and coordination of activities concerning the surveying, diagnosis, strengthening and rehabilitation of historic buildings. This requires in-depth knowledge integrating technical, engineering, historic, critical, organisational, managerial and legal skills in order to optimise the use of resources and achieve the expected performance levels, complying with any client-led or legal constraints. Graduates will have in-depth knowledge of subjects, relating to structural engineering, surveying diagnosis of buildings and their material and functional components, organising the implementation processes and technologies used in the strengthening and rehabilitation of historic buildings.

Skills developed

Engineering of Building Processes graduates will be able to:

Critically analyse historic buildings using advanced surveying and diagnostic techniques, identifying criticalities and potential, as well as the relative constraints and protection laws;

Plan and programme strengthening and rehabilitation activities, evaluating feasibility and organising efficient works implementation processes;

Design strengthening and rehabilitation works, integrating structural, technological, functional and maintenance aspects in compliance with specific rules and regulations;

Develop effective solutions to integrate services with innovative materials and technologies and apply the most advanced engineering methods to estimate and verify the behaviour of the buildings and planned works;

What we do

The study programme alternates single-subject course units and practical single and multi-subject workshops, aiming to integrate the acquisition of knowledge in different fields and understand the needs emerging from their application.

Curriculum 2 (Historic Buildings Rehabilitation) also offers students the possibility of obtaining a dual degree: a Second Cycle Degree in Engineering of Building Processes from the University of Bologna and an MSc in Architecture and Civil Engineering from Tongji University, Shanghai, China.

In addition to enhancing the language skills acquired during courses held in English, the study programme also offers students the opportunity to gain extensive experience abroad, thus acquiring considerable transverse communication and interpersonal skills.

The internship (or alternatively, for Curriculum 2 only, the undertaking of practical research activities in the curriculum's core subjects) is a learning experience that lets students experiment the knowledge acquired during the study programme, applying it to concrete cases and create professional opportunities for the future.

Job opportunities

Technical employee of public governments and authorities for the consolidation and rehabilitation of historic buildings;

Technical employee of firms working in the field of diagnostics and surveys, the consolidation and recovery of historic buildings and complementary sectors;

Technical officer of public institutions or private firms that manage real estate parks, employed as Facility Manager;

Engineer in the civil and environmental fields, working as a professional

FIVE REASONS TO ENROL

1. You will acquire the essential multidisciplinary knowledge for the redevelopment of historic buildings
2. You can carry out an internship at some of the major firms working in building redevelopment
3. You can study in Shanghai for a year and obtain a dual degree in Italy and China
4. You will learn how to use innovative technologies in building
5. You will learn both the technical side of planning and the management side of building process organisation

FACTS AND FIGURES

44%
extra-regional and international students

15%
of students graduate after having enjoyed an experience abroad

72%
of graduates find work within a year

87%
of graduates are satisfied with the degree programme

PHD PROGRAMME IN ARCHITECTURE AND DESIGN CULTURES

phd.unibo.it/architettura/it

Programme description

During the three-year programme, PhD students can choose between:

- Mandatory core courses

- International research workshop

- Cross-sectorial activities: these can be chosen from those proposed by the Faculty, other PhD programmes or high-level scientific activities.

At the beginning of each year, PhD students must present a curriculum containing: definition of the research subject, with an indication of the scientific disciplinary sector, the tutor, any co-tutors; a brief description and schedule of the research activities to be undertaken during the year along with an indication of the expected results; a list of the didactic activities selected; the research dissemination programme.

The annual exams are scheduled by the tutors.

At the end of the first and second year, PhD students must present and discuss a report of their research with the Faculty, which deliberates the student's pass/fail for the year.

At the end of the third year, PhD students must present their doctoral dissertation to the Faculty, which deliberates admission to the final thesis defence.

The PhD programme in Architecture supports publishing activities in order to valorise the research carried out both by doctoral and postdoctoral students, and by the Faculty as part of the doctoral program.

RESEARCH FIELDS

The main research fields of the PhD are:

1

Architecture

- Architectural composition
- Theory of architectural design
- Autonomy of architecture
- Space, form and structure in architecture

2

Planning and Urban Design

- Sustainability in planning and in urban design
- Relations between planning and environment/landscape protection and valorisation
- Urban and rural regeneration: techniques, tools and experimentations
- Theories of planning and urban design

3

Construction Technologies and Building Perfromances

- Sustainable building design
- Energy efficient building
- Architectural building renovation
- Project construction management
- Innovation technologies
- Indoor quality and building performances
- Outdoor quality, climate change adaptation and mitigation strategies

4

Advanced Design

- Visions of the futures in material forms: a dynamic relationship between past, present, and future
- Design driven process innovation
- Advanced design cultures: beyond processes and thinking
- Industry 4.0
- Cultural and Creative Industries
- Social innovation

5

Cultural Heritage

- Protection, restoration and preservation
- Technologies for conservation
- Digital heritage
- Design for cultural heritage in the digital era
- Humanities and technology for cultural heritage
- Cultural heritage and sustainability

6

Architectural Humanities

- History of architecture
- History of design
- Aesthetics of design and architecture
- Aesthetics of everyday life
- Philosophy and architecture
- Architecture and arts
- Architecture and literature, film, tv
- Urban and visual culture

POSTGRADUATE COURSES

Regenerative sustainable: Multi-disciplinary project to rebuilding resilient city

This postgraduate programme offers a new understanding and new tools for the integration of environmental, social and economic issues within the existing city. In fact, the so-called "consolidated city" needs continuous and profound regeneration to guarantee suitable levels of liveability and urban health, to drastically reduce pollution, climate-altering emissions and energy consumption, and to ensure greater resilience to climate and socio-economic changes. This requires new professional figures able to work in a qualified multidisciplinary team and interact with varying expertise.

Contacts: master.rigenerazionesostenibile@unibo.it

I level University Master in Design and Technology for Fashion Communication

Established thanks to the agreement between the University of Bologna - in particular the Departments for Life Quality Studies (Fashion degree programmes – Rimini Campus), Architecture, Computer Science and Arts - and the Fashion Research Italy Foundation, this first level University Master Course is for graduates and young professionals who want to acquire skills in the communication of the fashion system and its cultural and creative heritage through the use of digital technologies.

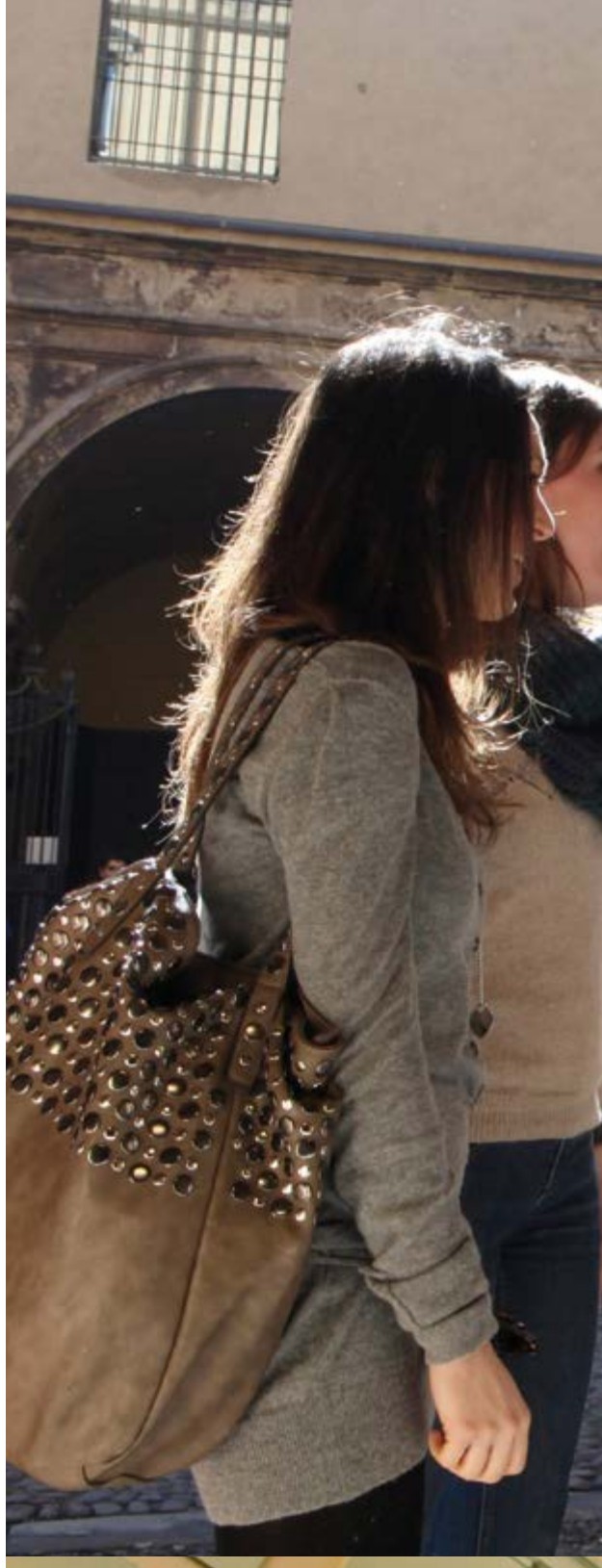
Contacts: master.dtfc@unibo.it

Executive Master in Business Innovation Design

Promoted by the Bologna Business School, the Executive Master in Business Innovation Design is meant for managers, entrepreneurs and consultants wishing to transform the opportunities linked to innovation into business objectives.

The Master is meant for senior professionals, project leaders and consultants operating in: industrial service for which the innovation ability is a distinguishing factor; businesses developing products, processes and services devised on the basis of user experience and usability; businesses wishing to become innovation catalysts using design methods; businesses wishing to develop a radical transformation ability, rethinking their model for value creation starting from the customer.

Contacts: embid@bbs.unibo.it



SUMMER SCHOOLS

Climate-KIC's PhD summer school

The Department of Architecture of the University of Bologna, in cooperation with Climate KIC (http://www.climate-kic.org), is involved in an ambitious project aimed at coupling research activities and outcomes with innovative and intensive training methods to foster urban transition processes. Within this context the Department of Architecture leads a Summer School programme on Urban Transition with relevnt International partners. The programme is based on ongoing research activities to define a systemic urban approach to support the regeneration of urban and peri-urban areas.

Past editions dealt with:

2015 – Climate KIC PhD Catapult Programme - Design for Adaptation |Resilient urban communities (Bologna) Partners: Department of Architecture, City of Bologna, Foundation for Urban Innovation

2016 – Climate KIC PhD Catapult Programme - Smart Solutions for the Urban Metropole: PhD summer school on Urban Metabolism and Water Management (Amsterdam - Bologna) Partners: Department of Architecture, City of Bologna, Foundation for Urban Innovation, AMS, University of Wageningen, City of Amsterdam, SENSE.

2017 – Climate KIC PhD Catapult Programme - Urban Transitions: Reshaping Urban Districts (Amsterdam - Bologna) Partners: Department of Architecture, City of Bologna, Foundation for Urban Innovation, AMS, University of Wageningen, City of Amsterdam, SENSE.

2018 – Climate KIC PhD Catapult Programme - Urban Transitions: Creating resilient corridors (Bologna) Partners: Department of Architecture, City of Bologna, Foundation for Urban Innovation

Contacts: Jacopo.gaspari@unibo.it

INTERNATIONAL RESEARCH

The Department of Architecture's internationalisation strategy is based on the recognition and enhancement of multi-disciplinary aspects and the ability to network with other EU universities.

EDUCATION AND TRAINING PROJECTS

UNINET
University Network for Cultural Heritage – Integrated Protection, Management and Use

The aim of project is to create an international cooperation network of researchers, academic teachers and practitioners specialised in the fields of management, protection and use of cultural heritage. UNINET collects, elaborates and shares knowledge in order to develop an interdisciplinary programme which will combine the issues of protection, management and use of three types of cultural heritage: architectural heritage, archaeological heritage and cultural landscape.

ICARO
Innovative qualifications for technological and organizational innovation in building sector

The technological and organisational innovation and the new normative framework in the construction industry imposes the redefinition of the profiles and the training of the construction site technicians, integrating and in some cases replacing the existing knowledge, skills and capabilities. ICARO bridges the gap among the practice and the training, proposing a new definition of the construction site technician curricula.

EDUCA4ALL
Required capabilities for educators to include the D4ALL (Design for all) principles

educa4all.fundacononce.es

The EDUCA4ALL project addresses the challenges faced by people with disabilities by teaching university students the social skills needed to exercise each profession in its relations with the "design for all - D4ALL" principles and with the disabled, their rights, needs, how to solve them and how to investigate in this regard. The objective of D4ALL is to ensure that settings, products, services and systems can be used by the greatest possible number of people.

ARCHISTEAM
Greening the Skills of Architecture Students via STEAM education

archisteam.com

ARCHISTEAM aims to develop a core curriculum for architectural education at a higher-education level to establish green and digital skills by integrating a STEAM approach within the existing course curricula to teach self-sufficient, sustainable skills for adapting to emerging technologies from a perspective of lifelong learning.

Timeline Travel
An Alternative Tool for Architectural History Learning and Teaching

timelinetravelproject.gantep.edu.tr/index.php

The project's aim is to create an alternative architectural history teaching and learning tool that triggers visual cognition with the support of a timeline and a map. Accessible through a webpage, this tool will be designed to be used both as an e-learning platform and as a teaching/learning/research companion. Timeline Travel will give students the opportunity to travel in time while studying architectural history.

LED
Landscape Education for Democracy

ledwiki.hfwu.de

The idea behind the LED project is to promote awareness and empower young design and planning professionals to become more active in shaping democratic change. The goal is to fill a gap in design and planning education and give students the opportunity to question themselves with the pressing issues of landscape democracy, right to landscape and participation.

ARCHEA
ARCHitectural European medium-sized city Arrangement

site.unibo.it/archea

The ARCHEA project relies on constructive cooperation and integration between five universities, research institutes and organisations. The project proposes to develop, test and implement a higher-education programme structured as a flexible, blended learning path on the study, quality evaluation and design of open spaces in the European medium-sized city, combining e-learning courses and planned practical activities for physical mobility.

EU FUNDED RESEARCH PROJECTS

www.da.unibo.it/it/ricerca/progetti-europei

ROCK - Regeneration and Optimisation of Cultural heritage in creative and Knowledge cities

Coordinated by the Municipality of Bologna, ROCK is a Horizon 2020 funded project. It focuses on historic city centres as extraordinary laboratories for demonstrating how Cultural Heritage [CH] can be a unique and powerful engine of regeneration, sustainable development and economic growth for an entire city. Thirty-two international partners are involved in the project including universities, research centres, companies and European cities (Athens, Bologna, Cluj-Napoca, Eindhoven, Lisbon, Liverpool, Lyon, Skopje, Turin and Vilnius).

rockproject.eu

CloudiFacturing
Cloudification of Production Engineering for Predictive Digital Manufacturing

CloudiFacturing aims to optimise production processes and producibility using Cloud/HPC-based modelling and simulation, leveraging online factory data and advanced data analytics, thus contributing to the competitiveness and resource efficiency of manufacturing SMEs, ultimately fostering the vision of Factories 4.0 and the circular economy. It is a Horizon 2020 funded project.

www.cloudifacturing.eu

SPEME
Questioning Traumatic Heritage: Spaces of Memory in Europe, Argentina, Colombia

Coordinated by the University of Bologna, SPEME is a Horizon 2020 funded project. It develops a joint program of exchanges between academic researchers and non-academic professionals in Italy, the Netherlands, Argentina and Colombia. The fundamental aim of the project is to devise new ways to transmit traumatic memories by linking them to the present, on the assumption that to be effective, memory must invent creative ways to become relevant in the present.

cordis.europa.eu/project/rcn/212993/factsheet/es

RURITAGE
Rural regeneration through systemic heritage-led strategies

Coordinated by the University of Bologna, RURITAGE is a Horizon 2020 funded project. Its main goal is the creation of an innovative rural regeneration paradigm based on cultural and natural heritage, consolidating the role of culture as the fourth pillar of sustainable development and contributing to economic growth, social inclusion and environmental sustainability in rural areas. The project involves 38 partners from 18 countries in Europe and Latin America.

www.ruritage.eu

MATCH-UP
The Role of Modal Interchange to Foster a Low-Carbon Urban Mobility

Coordinated by the University of Bologna, MATCH-UP is an INTERREG EUROPE Programme funded project. It focuses on the optimisation of places where people change between transport modes. The overall objective is to embed multimodal mobility strategies into the Project Partners' policy instruments by defining design requirements concerning interchange nodes and transport, by developing tools and methods to define the priority level of multimodal actions.

www.interregeurope.eu/match-up

Pro-GET-OnE
Proactive synergy of inteGrated Efficient Technologies on buildings' Envelopes

Coordinated by the University of Bologna, Pro-GET-OnE is a Horizon 2020 funded project. It develops and proves an integrated approach for tackling two important needs in existing buildings: safety upgrades to face future earthquakes in seismic zones and nearly zero energy consumption, aligning the buildings with EU climate change reduction targets.

www.progetone.eu/project/

TripleA-reno
Attractive, Acceptable and Affordable deep Renovation by a consumers orientated and performance evidence based approach

The Horizon 2020 funded project TripleA-reno aims to foster new consumer and end-user centered business models and decision support tools; improving performances of deep renovation by enhanced quality control; providing consumers and end-users of deep renovation projects with attractive, understandable and personalized information of realized real performance; to demonstrate the benefits and evidence-based solutions in live demonstration cases; to roll out the results on a wider European scale.

triplea-reno.eu/index.php/team

ABRACADABRA
Assistant Buildings' addition to Retrofit, Adopt, Cure And Develop the Actual Buildings up to zeRo energy, Activating a market for deep renovation

Coordinated by the University of Bologna, ABRACADABRA is a Horizon 2020 funded project. It is based on the prior assumption that non-energy-related benefits play a key role in the profound renovation of existing buildings. The central goals of the proposal include an important reduction of the interventions' payback time, strengthening the key investors' confidence, increasing the quality and attractiveness of existing buildings' stock and, finally, reaching concrete market acceleration towards the Nearly Zero Energy Buildings target.

www.abracadabra-project.eu

Smart Pedestrian Net
Smart Cities are walkable: SPN a model to plan a pedestrian network and pedestrian navigation system

Cities are facing growing challenges in mobility due to the strong dependence on cars. Motorised traffic is recognisably a major source of air and noise pollution in cities.

The sustainable mobility concept is focused on shifting this pattern towards non-motorised or more sustainable forms of mobility. The Horizon 2020 funded project Smart Pedestrian Net intends to provide a model to help European cities improve walkability as one of the important dimensions of smart, sustainable and inclusive de velopment.

jpi-urbaneurope.eu/project/smart-pedestrian-net/

SHELTER Sustainable Historic Environments hoListic reconstruction through Technological Enhancement and community based Resilience

SHELTER aims at developing a data driven and community based knowledge framework that will bring together the scientific community and heritage managers with the objective of increasing resilience, reducing vulnerability and promoting better and safer reconstruction in historic areas. The first step to enhance resilience is associated to the improvement in understanding the direct and indirect impacts of climatic and environmental changes and natural hazards on historic sites and buildings, by linking concepts commonly used in disaster risk management and climate change adaptation with cultural heritage management, in order to provide inclusive and informed decision-making.

SeeRRI
Building Self-Sustaining Research and Innovation Ecosystems in Europe through Responsible Research and Innovation

SeeRRI establishes a foundation for building self-sustaining R&I ecosystems in Europe by developing a framework for integrating RRI approach into regional development policies in three European territories: B30 Area (ES), Polymer and Mechatronic Cluster (AU), and Nordland Region (NO). After mapping the territorial R&I ecosystem, SeeRRI will identify the stakeholders involved to formulate a variety of scenarios for building a self-sustaining ecosystem in their territories; the stakeholders will be engaged in creative collaboration through workshops and open-labs, functioning as multipliers and promoters of RRI principles in their territories and beyond.

SIC
Social Innovation Community

Taking from areas of known social innovation activity, the Horizon 2020 funded project SIC will strengthen, connect and grow existing social innovation communities, including public sector innovation, digital social innovation, social economy actors and more. The aim is to help deepen further the networks' knowledge and capacity to act and support public decision-makers and other stakeholders in order to work more effectively with social innovators in solving public challenges.

www.siceurope.eu

WORLD CALLING!

The Department of Architecture works to set networks aimed at promoting international collaborations in research and training.

In addition to promoting Erasmus students and teaching staff exchanges and cooperative agreements with universities worldwide, and besides its participation in projects and initiatives funded by the EU, the DA has promoted and partecipated in several international activities and research in recent years.

NETWORKS

BO2ND "Collaborative projects BOlogna-BOgotà. New forms of dissemination of knowldge" is a strategic internationalisation project promoted and coordinated by the Department of Architecture and funded by the University of Bologna. The project is part of the process of strengthening relationships between the University of Bologna and the Universidad Nacional de Colombia. In particular, a dual degree title was established between the First-Cycle Master's Degree Course in Architecture of the University of Bologna and the Five-year Degree Course in Architecture of the Universidad Nacional de Colombia Bogotá. The Bologna/Bogota Joint Lab established Cultural Heritage as the main field of research-action, considering the city as a field of theoretical-practical experimentation for the students involved in projects in which innovation, inclusiveness and participation are the keywords.

The DA has been involved in **LATITUDES** since 2014: a global network led by the University of Westminster in London and aimed at facilitating the exchange of research and teaching experiences dealing with climate change and its impact on the built environment. Within this experience, DA is the leading partner of a series of PhD summer schools within the Climate KIC programme on Urban Transition, in cooperation with local and international partners.

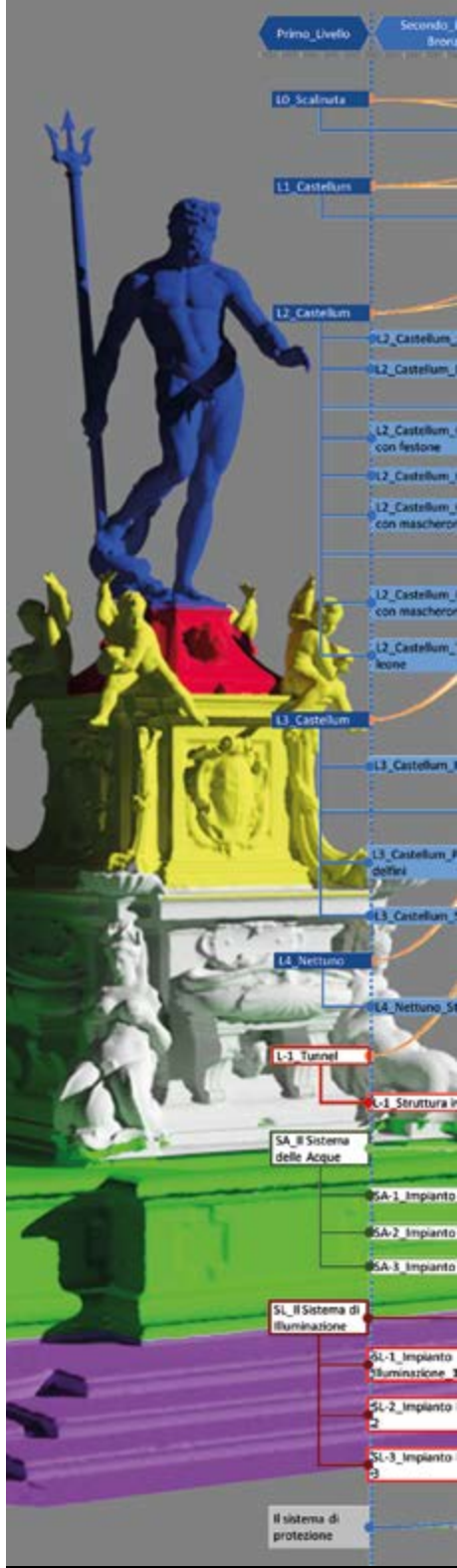
The 2015-2018 editions were focused on:

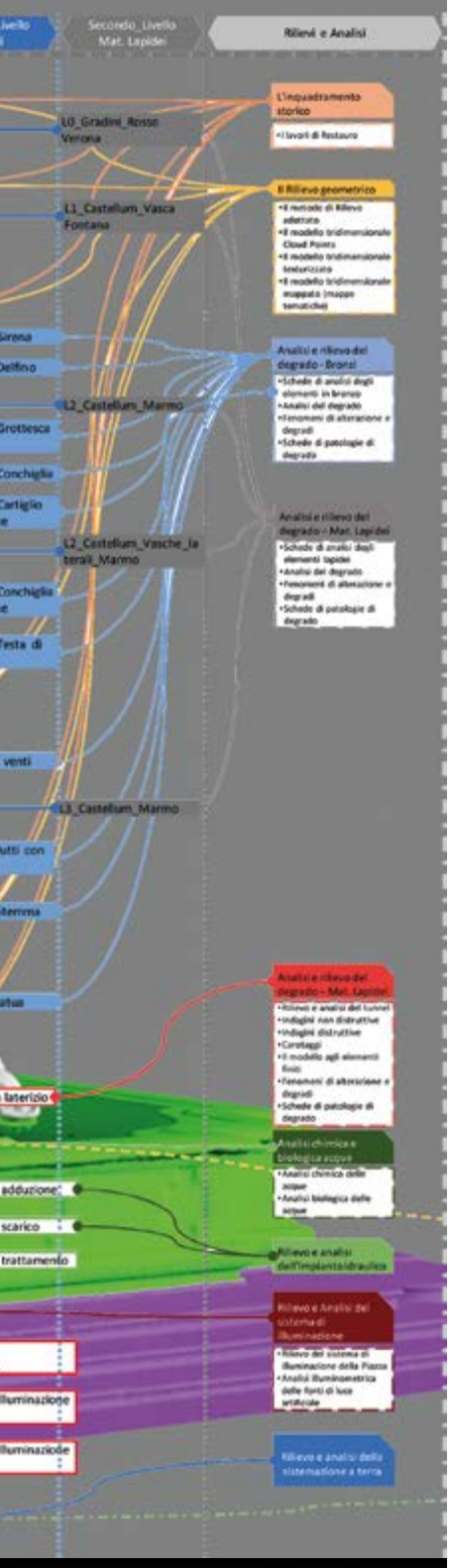
2015 edition: Design for Adaptation | Resilient urban communities (Bologna, 7-18 September 2015)

2016 edition: Smart Solutions for the Urban Metropole | Urban Metabolism and Water Management (Amsterdam and Bologna, 4-15 July 2016)

2017 edition: Urban Transition: Reshaping Urban Districts (Amsterdam and Bologna, 16-29 July 2017)

2018 edition: Urban Transitions: Creating resilient corridors (Bologna, 10-21 September 2018)





INTERNATIONAL ACTIVITIES AND RESEARCH

Members of the Department of Architecture have partecipated in the organisation of several international projects, exhibitions and performances. In recent years, the DA was a partner of the international events, such as the exhibition **Pier Luigi Nervi's Sports Facilities at MAXXI** – Museo nazionale delle Arti del XXI secolo in Rome (2016) and the **Italian Design Day 2018**.

DA is part of the team proposing the **Bologna porticoes for the list of UNESCO World Heritage Sites**: it has been involved in the production of 3D reality-based modeling of about 11 km of porticos, which will be implemented in the IT platform for the enhancement in terms of accessibility - physical and intellectual - of the system of the porticos of Bologna. In collaboration with CNR-ISTI of Pisa and ISCR of Rome, a DA team is part of a **restoration project for the Neptune Fountain in Bologna**, developing an Information System based on a digital three-dimensional model capable of ensuring an innovative, efficient and user-friendly management of the entire process of collecting, storing and consulting information and data on diagnostics and restoration work.

In recent years, the DA has organised international **workshops and seminars**, such as: the Construction Management Workshop (CMW18) in collaboration with Tampere University of Technology of Finland (Ravenna 2018), FutureDesignEd Symposium - Innovation in Design Education/Innovation in Education by Design (Bologna 2017), and Habiter le temps: dialogues d'architecture et philosophie of the Collège International de Philosophie in collaboration with École Nationale Supérieure d'Architecture de Paris La Villette (Paris, 2015-2016).

VISITING PROFESSORS

Several internationally renowned personalities come to the DA every year as Visiting Professors to teach the Department's degree courses. Some names to highlight include Adalberto Da Rocha Gonçalves Dias, Hans Friedrich Kollhoff, Jose Ignacio Linazasoro Rodriguez, Max Dudler, Uwe Gert Willi Schröeder and many others.

JOURNALS

The Department of Architecture has promoted the creation of international, multilingual journals in order to disseminate its researches and studies and establish connections and exchanges with scholars worldwide.

They include:

Histories of Postwar Architecture (HPA)

is a biannual open-access peer-reviewed journal that aims to publish innovative and original papers on postwar architecture, without any geographical, methodological, historiographical or disciplinary borders (hpa.unibo.it).

European Journal of Creative Practices in Cities and Landscapes (CPCL)

is a biannual open-access peer-reviewed journal that aims to publish innovative and original papers on cultural heritage in the built environment as a set of creative practices (cpcl.unibo.it).

STORIES

Department of Architecture Alumni recount how they built their careers and networking through their experience at the DA

BOLOGNA BOGOTÀ

Last 19th April in Bologna, I discussed my doctoral thesis in Architectural and Urban Composition entitled: "Modern Architecture in Colombia and European contribution: opportunity for a cultural meeting. Critical analysis of the work of the Italian architect Bruno Violi in Bogotá".

The thesis, which explores the theme of the European contribution in the context of the affirmation of Modern Architecture in Colombia, was developed in co-supervision between the University of Bologna and the Universidad Nacional de Colombia, Bogotá headquarters, and counted on the support of Professor Annalisa Trentin (Department of Architecture, University of Bologna) and Professor Ricardo Daza (Facultad de Artes, Universidad Nacional de Colombia). The agreement signed between the two Universities arose from a shared interest on the thesis goals and was the starting point for experimenting with the process of having a dual academic title recognised, currently in progress. During the three years of my PhD from 2014 to 2017, I alternated research periods in Bologna and Bogotá and had the opportunity to develop a real and constant comparison with the two academic realities.

The co-supervision experience greatly enriched my PhD experience in terms of openness to another cultural context and for the establishment of new research collaborations.

Serena Orlandi
Ph.D. in Architecture and Architectural Composition of the University of Bologna

BOLOGNA KUWAIT MEXICO

I am an architect, researcher and currently full professor in the Department of Architecture, Art and Design of the University of Monterrey, Mexico. I joined the Faculty of Architecture at the University of Bologna in 2001 as a fresh graduated T.A. and later I enrolled in the PhD program at the Department of Architecture (DA), under the supervision of prof. Elena Mucelli. In 2009 I defended my dissertation on Max Bill's work in the Italian context (later published by Bruno Mondadori/Pearson in 2011).

The following year, I was selected as a consultant to the United Nations Development Programs for the rehabilitation of the Kuwait National Museum (KNM) and its galleries, badly damaged after the 1st Gulf War. I spent 6 years in Kuwait and, apart from the KNM consultancy, in 201v3-14 I was visiting re-searcher at the Center for Gulf Studies at the American University of Kuwait. Two years later, with a supporting grant from the Kuwait Foundation for the Advancement of Sciences (Kfas), I published the first systematic investigation on architectural modernity in the country (co-authored with Camacho and Saragoca. Niggli Verlag 2015 and 2017). Modernity in places 'other' than the West is one of my main research lines, and this summer I will co direct a workshop in Cambridge (UK on topics that stemmed out of this previous investigation.

After Kuwait, I accepted a teaching position at the University of Monterrey (UDEM) which gave me the opportunity to go back full time to academic work. By relocating to Mexico I could continue exploring architecture and museums in another country of the Global South, appreciating differences and simi-larities with my previous experience. In recent months, my main activity at UDEM shifted from teach-ing to research, publishing and lecturing as I was accepted in the National Research System (SNI).

The academic and professional career I have met abroad is quite different from the one I was used to at the DA in Bologna. On one side, the international experience challenges the self-centric view that we often adopt and teach in our educational bodies. On the other, I could witness firsthand how the Italian educational system, despite all its limitations, is still able to prepare architects to perform in-tellectually and professionally at the international level.

Roberto Fabbri
Full Time Professor at the School of Art, Architecture and Design of the University of Monterrey, Mexico

BOLOGNA VENEZIA

I am an Architect, PhD and I currently work as Architect in chief and Building manager at the Gallerie dell'Accademia di Venezia, where I deal both with the preservation of the building and the organization of temporary exhibitions. I studied at University of Architecture IUAV in Venice, where I graduated in 2009 in Architecture for Conservation. I obtained the PhD degree in 2014 at the Department of Architecture of the University of Bologna, with a thesis on post-war reconstruction works by architect Josef Wiedemann in Munich, under the supervision of Giovanni Leoni and Winfried Nerdinger (TUM Munich) as external co-advisor.

My research work focuses on post-war reconstruction, Cultural Creative Industry applied to Cultural Heritage, preservation of 20th century architecture, with special concern with the heritage of totalitarian regimes. From 2014 to 2017 I collaborated in the Architectural Restoration Lab at IUAV working on the conservation of the Psychiatric Hospital of Rovigo, an abandoned site listed for its cultural value in 2008. I have been Adjunct professor in Theories and History Restoration and Research Fellow at the Department of Architecture in Bologna from 2014 to 2018. As Unibo Research Fellow I took part to the ROCK project (Regeneration and Optimization of Cultural heritage in creative and Knowledge cities), funded from the European Union's Horizon 2020 research and innovation programme. I was involved in the definition of a methodological approach to the "circular model" applied to the Cultural Heritage. My experience at the DA in Bologna enriched my research skills and offered me many opportunities in the field of conservations and innovation.

Leila Signorelli
Architect in chief and building manager
Gallerie dell'Accademia di Venezia
leila.signorelli@beniculturali.it

BOLOGNA STOCKHOLM LAUSANNE

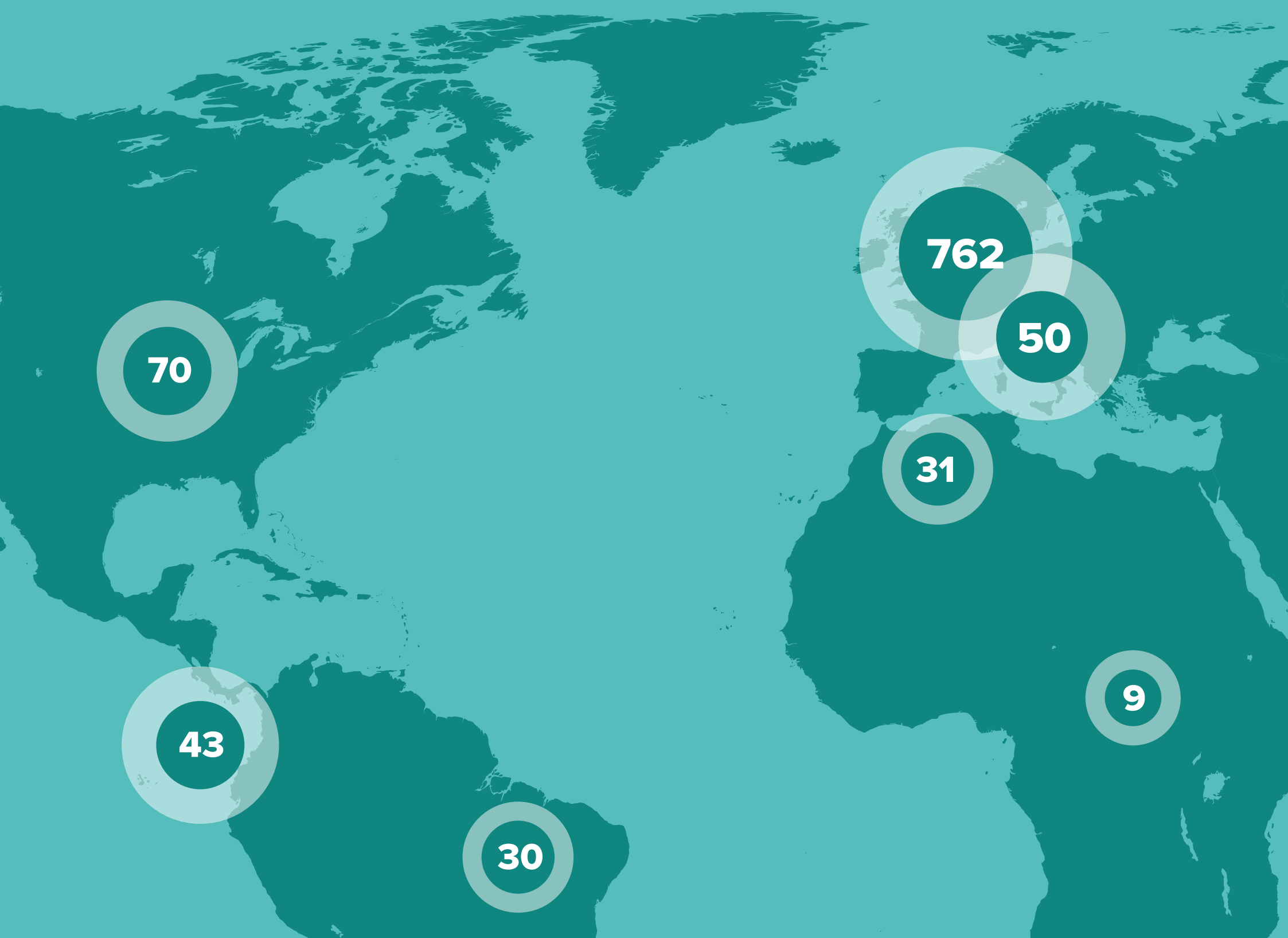
I am an architect and Post Doc researcher at the EPFL - École Polytecnique Fédérale de Lausanne (Switzerland), where I moved in March 2016. In 2011, I completed the B.Sc. and M.Sc. in Architecture at the Department of Architecture - Università di Bologna, where I also obtained the Ph.D. degree in "Architecture" in 2015 with the thesis "Ragnar Östberg. Genius loci and urban memories. Stockholms Stadshus-Nämndhus and villa Geber", under the supervision of Gino Malacarne and Luca Ortelli as external co-advisor. Thanks to the research scholarship provided by C.M. Lerici Stiftelsen – Italienska Kulturinsitutet, I was also a visiting researcher at Kungliga Tekniska Högskolan in Stockholm (Sweden) to finalise my Ph.D. studies.

My current Post Doc research examines urban policies and mass housing complexes in Stockholm during the period of dramatic housing shortage and establishment of social democracy in the first half of the 20th century. For this postdoctoral project entitled "Stockholm: housing in the interwar period", I received a 2-year SNSF (Swiss National Science Foundation) research grant.

Both the Ph.D. thesis and the Post Doc project employed the same methodology which encompasses systematic architectural exploration and analytical CAD re-drawing. These graphical outputs are indeed the key tool for carrying out a morphological and typological investigation throughout the design evolution of the projects assumed as case-studies. This shows how my experiences at the DA - Department of Architecture - in Bologna have paved the way for the ensuing explorations.

Chiara Monterumisi
research scientist, PhD, architect
LCC - Laboratory of Construction and Conservation
EPFL - École Polytecnique Fédérale de Lausanne

INTERNATIONAL AGREEMENTS AND PROGRAMMES



UNIBO INTERNATIONAL PROGRAMMES

**ERASMUS + / OVERSEAS /
FINAL THESIS ABROAD /
DOUBLE DEGREE / MARCOPOLO / STUDY
AND RESEARCH IN FRANCE AND GERMANY /
VULCANUS - JAPAN / SCHWARZMANSCHOLARS
- SCHOLARSHIPS /
MOBILITY AND BUENOS AIRES CAMPUS /
BROWN UNIVERSITY EXCHANGES - USA**

The Department of Architecture has well established networks with several universities and institutions worldwide, aimed at promoting international collaborations in research and training.

In line with the policies of the University of Bologna, the DA offers its students and teachers opportunities for international mobility; it welcomes undergraduate students, PhD students and foreign researchers, is a partner in sector agreements with universities and international research institutions and participates in projects and joint research programmes.

DA MAIN ERASMUS EXCHANGES PROGRAMMES:

Belgium
Bosnia and Herzegovina
Cyprus
Finland
France
Germany
Jordan
Great Britain e northern Ireland
Greece
Israel
Lithuania
Malta
Moldova
Netherlands
Poland
Portugal
Czech Republic
Romania
Serbia
Slovenia
Spain
Sweden
Ukraine

DA COOPERATION AGREEMENTS:

Argentine
Colombia
Brazil
Mexico
Great Britain
Iraq
Israel
USA
China
Japan
South Korea
Morocco
botswana
India
Malaysia
Singapore
Ukraine

WHERE WE ARE

The Alma Mater Studiorum - University of Bologna is one of the oldest universities in the world, founded in 1088. It is currently one of the most renowned higher-education institutions with around 85,000 students enrolled, 33 research departments and 600 employees. Its academic offer includes 200 Bachelor and MA programmes (40 of which are joint programmes and 36 of which are completely taught in English) and around 40 Doctoral Programmes. The Alma Mater Studiorum is a multi-campus university based in five cities of Romagna region since 1989. The Department of Architecture is based in the campuses of Bologna, Cesena and Ravenna.

FACTS AND FIGURES
UNIBO

5
Campuses

32
Departments of the University of Bologna

10
Research and Training Centres

197
Research projects funded by the European Union within H2020 and LIFE frameworks

72
PRIN projects funded by MIUR (Italian Ministry of University and Research)

80
projects funded by the Emilia-Romagna region

85509
Students who have chosen the University of Bologna (AY 2017/18), making it the most popular university in Italy

219
Degree Programmes (AY 2018/2019)

92
first cycle 3-year programmes

114
second cycle programmes

13
single cycle programmes

69
International degree programmes, 51 of which are delivered in English

45
PhD programmes (AY 2017/18)

52
specialisation schools

74
first and second level professional master's programmes, **16** of which are international

3045
International students from abroad on exchange programmes and

3152 students enrolled at UNIBO who spent a study period abroad in 2016

60
University Libraries

1st
University in Europe for international mobility (Erasmus+ 2018)

FACTS AND FIGURES
DA

3
Campuses

2
Libraries

14
Laboratories

1
PhD programme

4
Master Programmes

ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI ARCHITETTURA

DIPARTIMENTO DI ECCELLENZA MIUR
(L. 232 DEL 1/12/2016)

Dipartimento di Architettura dell'Università di Bologna

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RASSEGNA DEL DIPARTIMENTO DI ARCHITETTURA DELL'UNIVERSITÀ DI BOLOGNA

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