

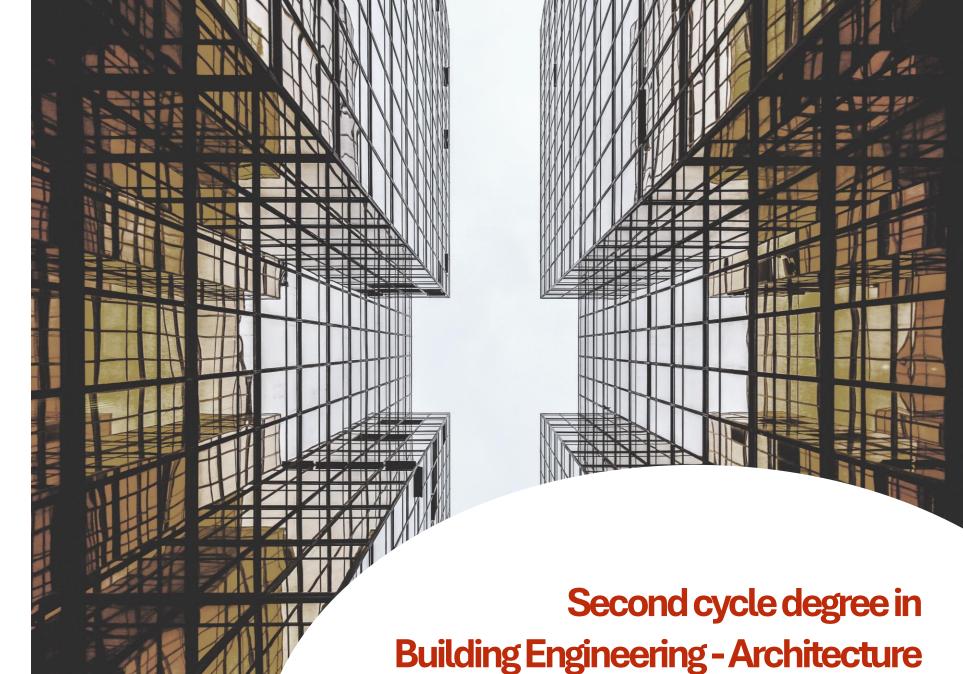
VIRTUAL FAIR 2024

MASTER'S

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The programme

Ingegneria Edile- Architettura

Un percorso di studi innovativo per affrontare i temi più attuali nell'area UE come il cambiamento climatico, l'integrazione culturale, la conservazione dell'identità urbana, l'economia circolare.



SEDE Bologna



CLASSE DI CORSO LM-4 – Architettura e Ingegneria Edile-Architettura



https://corsi.unibo.it/magistrale/IngegneriaEdileArchitettura

Architectural Engineering

An innovative and multidisciplinary training to plan and manage all aspects of buildings in the context of building renovation, new construction and urban regeneration.



PLACE OF TEACHING Bologna



DEGREE PROGRAMME CLASS LM-4 – Architettura e Ingegneria Edile-Architettura



https://corsi.unibo.it/2cycle/ArchitectureEngineering



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DEGREE PROGRAMME CLASS
LM-4 – Architettura e Ingegneria Edile-Architettura



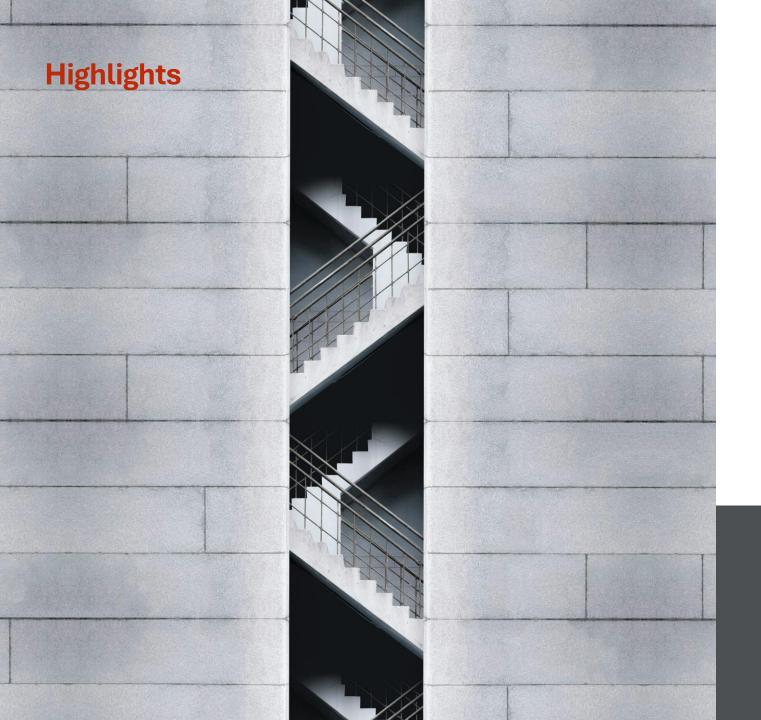
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The training project







Engineers-Architects who wish to undertake an innovative and multidisciplinary training allowing them to plan and manage all aspects of buildings in the context of building renovation, new construction and urban regeneration, adopting a conscious approach to the use of materials, technologies and energy sources

KEYWORDS

Innovative strategies
Complex buildings
Urban context integration
Landscape design
Quality of life





This is an International Master degree:

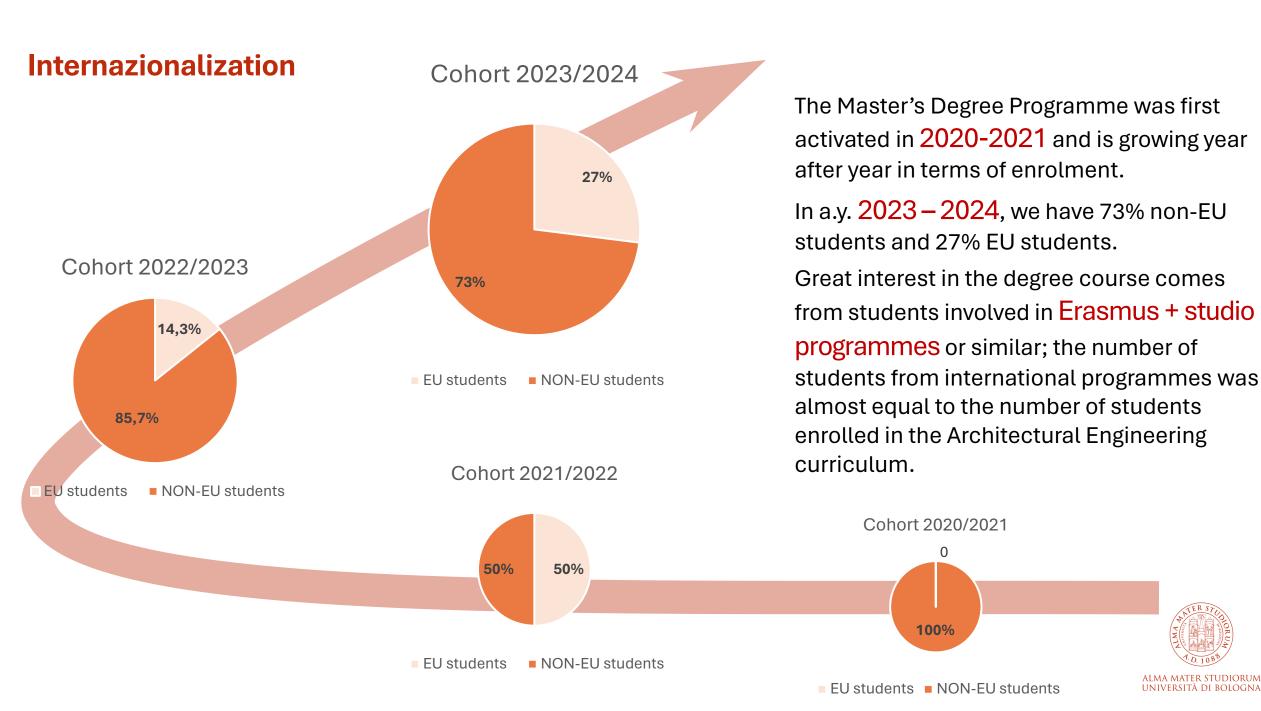
- It is completely taught in English Language
- It has an international approach to teaching
- It has a global point of view of the Architecture and Engineering field, thanks to the involvement of the professors in International and European projects
- It includes students from all over the world: attending this programme means studying in an International environment

KEY POINT

European Acknowledgment of the title

Graduates will be allowed to work as Architects all over Europe





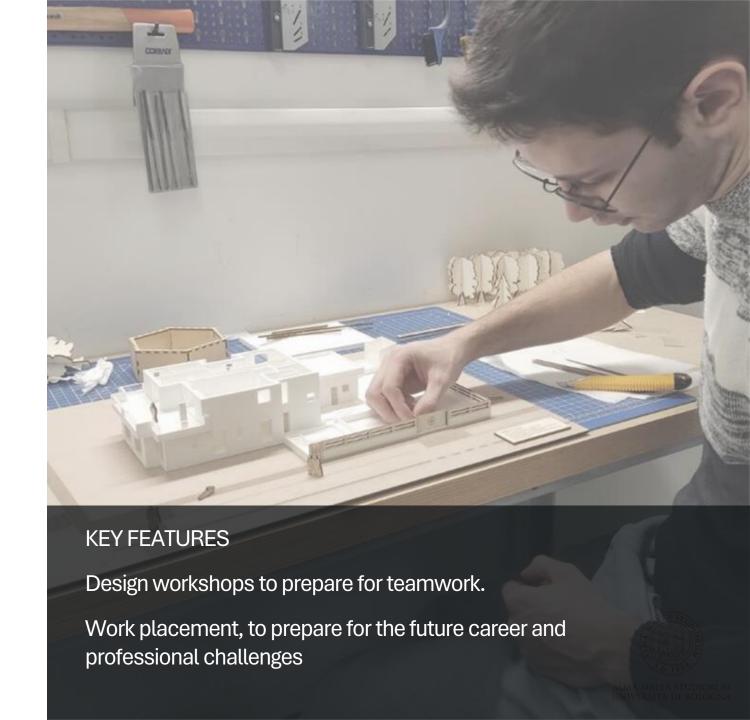
Teaching activities

Students will deepen the knowledge in disciplinary areas related to both architecture and engineering.

Architecture area – architectural representation and design, history of architecture, restoration technique

Engineering area – structural analysis, building management, sustainable building design and Building Information Modeling

The programme is completed by insights on urban economics and building cost analysis and by the study of urban planning and regeneration techniques aiming at promoting sustainable, inclusive and healthy cities.



Admission Procedures

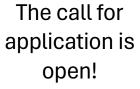


Title required

Bachelor's degree in Architecture (L-17, L-7, L-23 for Italian students) or similar;

In case of Italian Bachelor's degree, passing the ARCHED test is required;

Foreign titles will be evaluated by the admission board





Document requested and evaluated by the board

The training curriculum: exam grades and graduation mark, teaching program of the bachelor's degree;

Portfolio of works, including texts and iconographic material, documented internship or extracurricular work experience;

Fully documented internship or extra-curricular work experience;

Other certified and documented research or extracurricular training titles

English language skills: at least B1 level





- Advanced Building Physics
- Built Heritage Workshop I.C. (Heritage Conservation + Construction History)
- Geomatics for Urban and Regional Analysis
- Sustainable Building Design Workshop I.C. (Building Technologies + Building Design)
- Sustainable Building Process Workshop I.C. (Advanced Building Site + Cost Analysis)
- Design Modeling Workshop I.C. (Architectural Design I + Building Information Modeling)
- Structural Engineering and Design
- Internship





* ELECTIVE COURSES:

- Mechanics of Historical Masonry Structures
- Structural Strengthening & Rehabilitation
- Material and Sustainability
- Building Energy Modeling
- History and Cultural Heritage in European Cities

- Project Management Workshop I.C. (Construction and Facility Management + Managing Engineering and Construction Processes)
- Design Computing Workshop I.C. (Architectural Design II + Building Information Modeling II)
- Sustainable Urban Design and Planning Workshop I.C. (Planning in a Changing Society + Planning in a Changing Climate)
- Building Renovation Workshop I.C. (Historic Building Techniques + Building Renovation Project)
- English Language Test B-2
- Two Elective Courses*
- Final Examination





Design Modeling Workshop I.C. (Architectural Design I) ALMA MATER STUDIORUM Università di Bologna

Design Modeling Workshop I.C. (Architectural Design I)



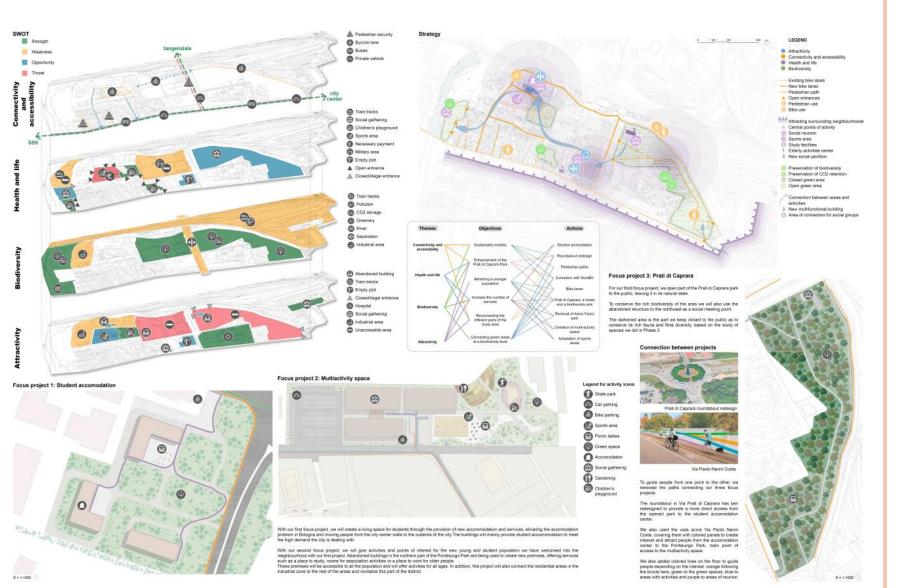


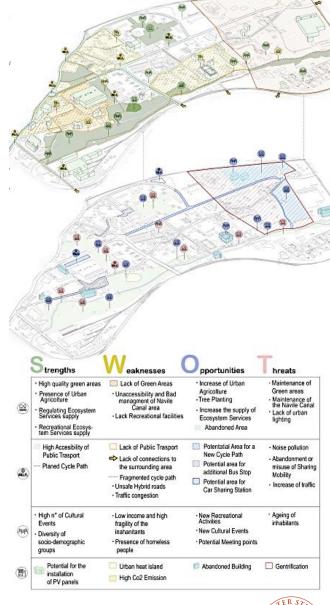






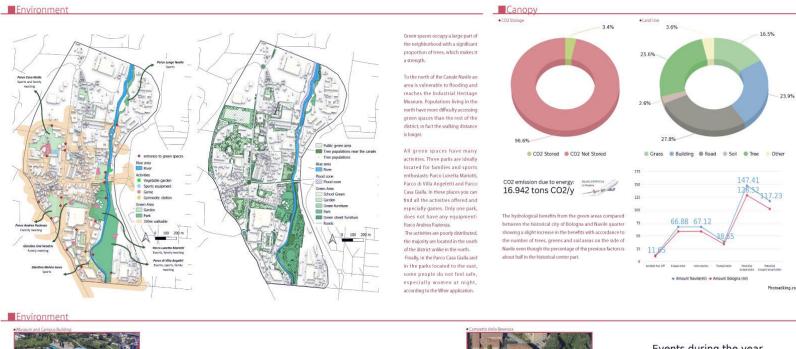
Sustainable Urban Design and Planning Workshop I.C.

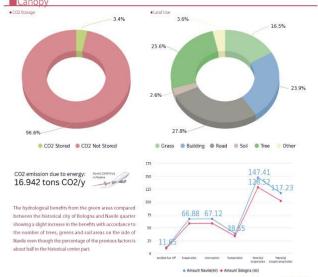






Sustainable Urban Desing and Planning Workshop I.C.



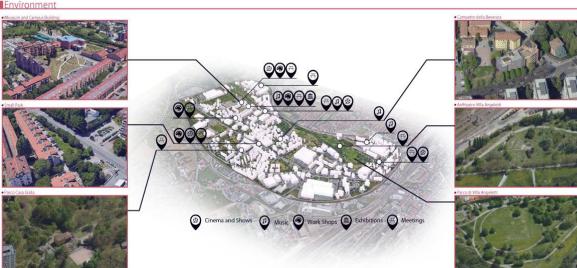


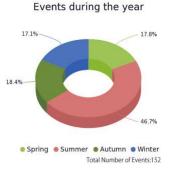




Complex fragility includes 3 indicators: demographic, social and economic. A score was assigned for each of the districts, varying between 70 and 130. For a score below 100, the area is considered to be weakly fragile. The Navile district is certainly below 100 but it remains the highest score of all the districts. Its economic and social fragility exceeds the score of 100. Indeed, neighborhood incomes are the lowest in the area.

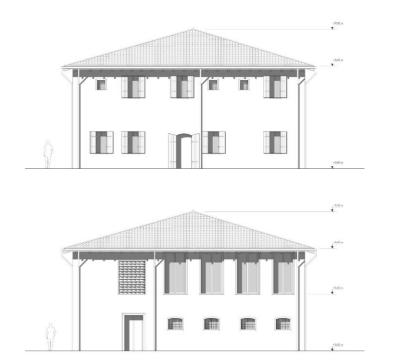
The population density of Navile is slightly lower than that of Bologna: 2,800 inhabitants/kmq

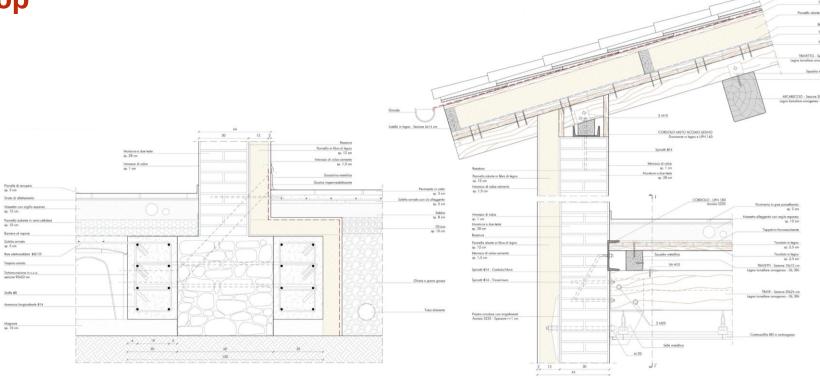


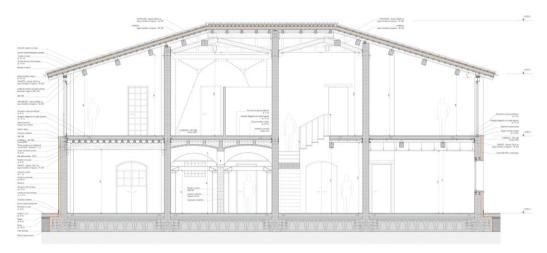


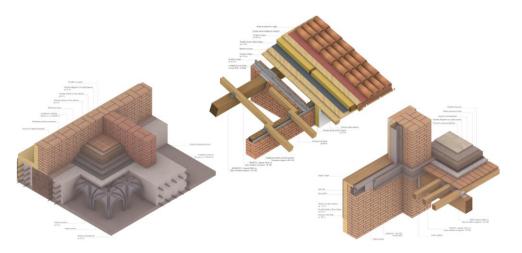


Building Renovation Workshop











Skills acquired



SUSTAINABLE DESIGN

Design new complex building systems and manage the re-qualification of existing ones through the integration of technological, systemic, and structural security components, with a specific focus on innovation, functional and social requirements, and the figurative, aesthetic and environmental aspects.



INNOVATION IN CONSTRUCTION

Know and apply innovative construction materials and components.



DIGITAL INNOVATION

Manage the advanced modelling and digital integration of processes with a particular focus on the integration of architectural requirements, construction methods, physical-environmental requirements and structural safety, also through the use of Building Information Modelling (BIM).



Skills acquired



MANAGEMENT OF THE BUILDING PROCESS

Deal with construction management, facility management, project management and asset management). Manage and coordinate the engineering phases and complex technical-administrative procedures, through advanced systems such as BIM.



PLANNING PROJECTS

Participate in interdisciplinary working groups on complex urban projects in terms of technical aspects, economic feasibility and environmental compatibility. Design and manage the urban regeneration of real estate in accordance with environmental and social sustainability, in pursuit of circular economy aims.



BUILDING RENOVATION

Recognise the historical and environmental features of the built heritage and deal with plans and designs to protect and enhance it. Analyse and evaluate the existing building heritage in all its aspects, including the restoration of buildings and within the limits permitted by the laws in force in Italy and in Europe.



Job prospects and career

Once licensed to practice as Engineer or/and Architect (both are possible in Italy – Architect in other EU Countries), registration to the section A - civil/environmental sector for the Engineers' Professional Board and section A for Architects' Professional Board is possible.

Some examples of professional activities are:

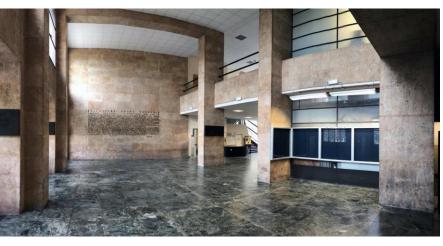
Engineer-architect designer of buildings, plants and structural systems and components,

Engineer-architect with the role of project manager/design manager/facility manager,

Engineer-architect process manager in the public administration departments: urban planning – building – public works – environment – heritage, etc.









Teaching sites

The historic complex where laboratories, classrooms, areas for students, researchers and teachers are is in Bologna at Viale Risorgimento 2, in the Saragozza district.

The building is important evidence of Twentieth-century Italian architecture, designed by the architect Giuseppe Vaccaro in 1928 and inaugurated in 1935.







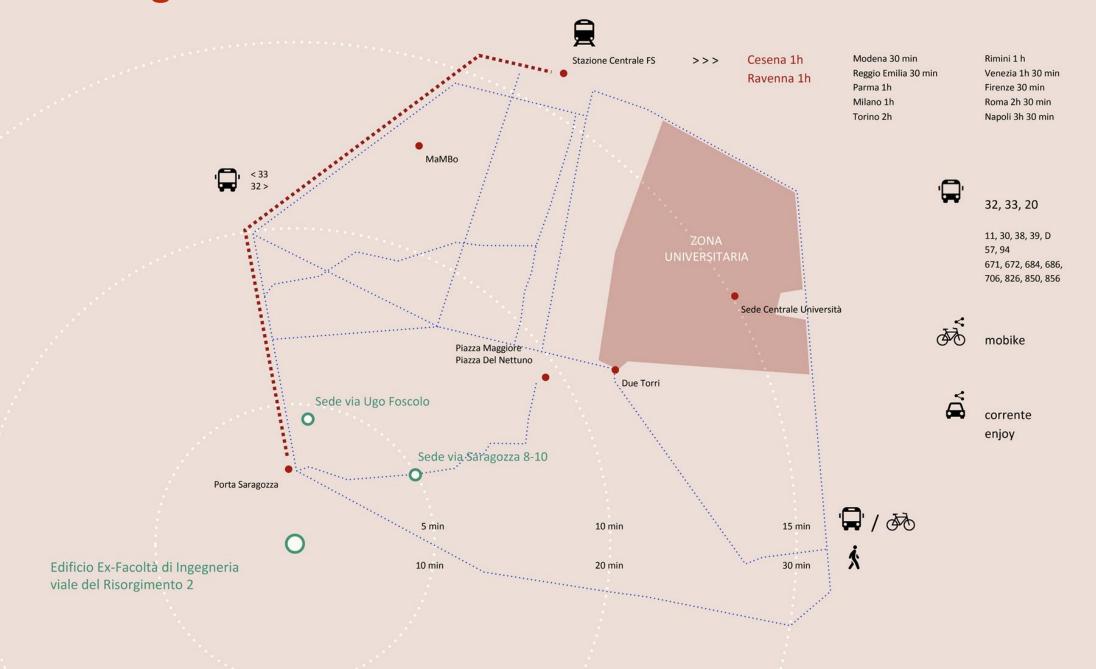


Teaching sites

Other classrooms and workshops rooms are located in another historical building, in via Foscolo, just a few minutes' walk from the main building, designed and built at the beginning of the Twentieth century.



Teaching sites





Giorgia Predari

Programme Director giorgia.predari@unibo.it

Carlotta Viani

Programme Coordinator carlotta.viani@unibo.it

Cecilia Mazzoli Ugo Maria Coraglia

Guidance Delegates cecilia.mazzoli@unibo.it ugomaria.coraglia@unibo.it

Cecilia Biscarini

Degree Programme Tutor da.tutor@unibo.it

