



UNIVERSITÀ
DEGLI STUDI
FIRENZE



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FIRENZE

DIDA
DIPARTIMENTO DI
ARCHITETTURA

**Scuola di
Architettura**

Cura

Riccardo Renzi

progetto grafico



Laboratorio
**Comunicazione
e Immagine**

Dipartimento di Architettura
Università degli Studi di Firenze

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**SAVE
OUR**

HERITAGE

**SAVE
PENN
STATION**

**ACTION
NOT
APATHY**
ALBANY

**SAVE
OUR
STATION**

PRESENTATION

The Master programme is offered to students coming from both inside and outside the European Union, who wish to achieve a Master Degree in Architecture awarded by the School of Architecture in Florence, Italy. The courses are held in two languages: Italian and English.

The aim of the Master Degree course in Architecture is the training of an "Architect" according to the requirements of knowledge and skills as defined by the European Union Directive EC 1985/384 and subsequent 2005/36/EC. The course lasts two years and meets the requirements set by the EU Bologna Process.

Graduates in this class of degree may, after passing the state exam, enrol in section A -field "architecture" of the Italian Professional Association of Architects, Planners, Landscapers and Conservationists as expressly determined by the DPR No. 328 of 5 June, 2001.

The course is organized into two semesters per year, corresponding to 60 credits, for a total of 120 credits. As it is foreseen by the learning programme, the student who obtains the total number of credits can graduate even before the termination of the expected biannual period.

Cultural statement

The Master Course in Architecture is based on these main assumptions:

- the design of contemporary architecture, its techniques and its methods is related to cultural heritage and the landscape of cities and regions;
- sustainability as a general equilibrium between human needs, spaces, buildings, products and nature;
- cooperative work involving different people and cultures offers an additional quality to the scientific programme of the course.

Learning objectives

The expected results are expressed by the descriptors of the European qualification (DM 16/03/2007, art. 3, paragraph 7) and placed in the Academic Regulations for the degree course visible on the website of CdLM - <http://www.magistralearchitettura-icad.unifi.it/vp-115-regulations.html>. Graduates in Architectural Design must demonstrate, through examination and verification of income, to have achieved the results of learning expectations, expressed through the system of indicators of the degree adopted within the European Union (Dublin descriptors) and the EURACE accreditation model (DM 16/03/2007, art. 3, paragraph 7).

Objectives include:

Knowledge and understanding

Knowledge and understanding to extend and enhance what was acquired in basic training during the first cycle and to draw up and implement original ideas, in complex contexts often associated with individual research. In particular, students will acquire knowledge and understanding relating to:

- design processes, from conception to production and the construction site;
- design methods for architectural and urban transformation in complex urban systems, both historical and modern;
- contemporary building techniques and materials in relation to environmental and economic sustainability;
- fundamentals of structural design and its application to different kinds of buildings;
- elements of chemistry and physics applied to building elements;
- fundamentals of history of architecture, cultural heritage conservation, architectural monument restoration, building rehabilitation and urban regeneration and planning;
- traditional construction techniques and materials, associated with their contexts;
- fundamentals of social sciences;
- fundamentals of law relating to urban planning and construction process management;
- fundamentals of applied economics and project valuation.

Applying knowledge and understanding

The students are requested to apply and widen their know-how in solving problems and new design is-

sues, in vast contexts and with an interdisciplinary approach to these relating topics:

- conception, imagining, specification and communication of architectural projects in different scales, from a whole urban and territorial level to construction detail, satisfying cultural, social, technical and aesthetic values;
- identifying and specifying effective structural solutions;
- identifying and specifying effective materials and construction techniques;
- coordinating, integrating and managing all the professional competencies involved in complex design processes;
- conserving and restoring monumental and vernacular architecture, coordinating the technical, cultural and scientific multidisciplinary competencies;

Making judgements

Ability to integrate knowledge, handle complexity and to make judgements based on incomplete or limited information, including reflections on social and ethical responsibilities linked to the application of one's knowledge and opinions. In particular, students will be able to make judgements in order to:

- recognize and analyse the relationships between a piece of architecture and its physical and cultural context;
- change the environment to meet human, social, cultural and economic needs;
- conduct feasibility studies involving the economic component of architectural and urban design;

- identify the administrative path to be taken with regard to the type, size and complexity of a project in a given context;
- be aware of ethical, cultural and social responsibilities implied in the professional role of the architect.

Communication skills

Skills that allow students to communicate in a clear and unambiguous way to both specialists and non-specialists. In particular, students will acquire skills, supported by tools and methods, which will enable:

- the communication of ideas and projects, both to professionals and to people that are not experts in the field of architecture, through participation;
- to interact positively in working groups in academic and professional contexts, both at the national and international levels;
- to identify, organize, coordinate and lead a multidisciplinary team.

Learning skills

The development of those learning skills which enable graduates to continue studying in an autonomous way, necessary for continuous training. Students will be required to:

- create, promote and achieve progress in the field of theory and practice of architecture;
- design, develop and implement innovative research and projects;
- organize design and research groups, both in national and international professional companies.



A hand-drawn illustration in black ink on a white background. At the top, a rectangular sign is tilted slightly to the right. Inside the sign, the words "I AM A" are written on the top line and "MONUMENT" is written on the bottom line in a simple, blocky font. The sign is supported by a vertical post that connects to a building below. The building is a simple rectangular structure with a flat roof. The front and side walls of the building are covered with numerous small, dark, irregular shapes, suggesting windows or architectural details. Several short, radiating lines are drawn around the sign and the building, giving the impression of light or a bright scene. The overall style is minimalist and expressive.

I AM A
MONUMENT



WHY

completing the training programme of the Master's Degree in Architectural Design from the University of Florence. The programme can be implemented both with free-choice of courses or thematic seminars, and with design workshops or professional internships).

As a crucial tool, cross-cultural dialogue allows to deal with the many different backgrounds to which our international students belong. The outstanding tradition of the journey to Florence and Tuscany dates back centuries, and illustrious travellers include the likes of Montaigne, Goethe, Stendhal, Ruskin and Le Corbusier.

A fruitful interdisciplinary dialogue will be added thanks to the wealth of opportunities offered by the lively cosmopolitan cultural life of the city, a well guided interaction with the several international Universities based in Florence, while the conceptual clash between site-specific and global issues is considered to be a significant contemporary target.

What you will study

Architectural Design

What you will learn

Students will learn the architectural Design process, from conception to production and the construction site, for architectural and urban transformation in complex urban systems, both historical and modern, and related contemporary construction techniques and materials with attention to environmental and economic sustainability; they will also learn design methods and tools for the conservation of the architectural heritage and for traditional construction techniques and materials, associated with their contexts.

What you will be able to do

The aim of the Master's degree in Architecture is the advanced training of Architects according to the requirements in terms of knowledge and skills as defined by the European Union Directive EC 1985/384 and subsequent 2005/36/EC, as well as it meets the requirements set by the EU Bologna Process.

According to the core resources provided by both Florence and Tuscany, iCad - International Course on Architectural Design, which is the leading Master Course held by University of Florence - revolves around the key-words Landscape and Environment, Cultural Heritage and Museums, Art/Architecture. The educational programme of the iCad (International Master's Course in Architectural Design) emphasizes the role of the Design Lab. In all semesters there will be an Architectural Design Lab.

The four Labs will be integrated with three modules

Training programme

European Union students who hold the title of Bachelor of Architecture complying with the requirements of EU Directive 2005/36/EC and subsequent EC 1985/384 can access the Master's Degree.

The course is open to students from countries outside the European Union who hold a degree or diploma representing at least a three years in Architecture at a University, or other qualification recognized as equivalent.

To access Master's degree in Architecture students need to have previously obtained a First Cycle Degree (3 years of study and 180 credits).

The admission depends, however, on the student's knowledge of the English language at Certificate B2 writing level or equivalent.

The university curriculum of all students, coming from both European and non-European countries, will be evaluated. To this end, the School Committee will assess each student's portfolio attached to the application form. Significant Portfolio of products, including texts and draft materials, workshops experience, participation in design competitions for students and research activities, are welcome. In the case of collective works the contribution by the candidate should be pointed out.

When deemed useful for the evaluation, the School Committee reserves the right to ask candidates for further informations, including through interview. When assessing the conditions for admission, the

School Committee may indicate mandatory curricular additions, specifying one or more subjects belonging to the first level of training, exams which the student will be required to pass prior to enrolment.

The dates of submission and the results of the evaluation will be published through the website of the School of Architecture.

The degree is offered to students coming from both inside and outside the European Union, who wish to obtain a Master's Degree in Architecture awarded by the Department of Architecture in Florence, Italy. Graduates in this class of degree may, after passing the state exam, enrol in section A - field "architecture" of the Italian Professional Association of Architects, Planners, Landscapers and Conservationists as expressly provided by the DPR No.328 of 5 June, 2001.

Career opportunities

The main job opportunities provided by the Master's Degree Course are:

- architectural design, urban planning and architectural heritage conservation with competence of aesthetic, distribution, functional, structural and technical issues, regarding construction and economic feasibility, the built environment, landscape valorisation, as well as concerning cultural changes and with critical attention to the needs expressed by contemporary society;
- business activities on an individual basis or in partnership, related to the design and construction of public and private projects and architectural project management in public institutions and private organizations relating to construction and property.





THE MASTER DEGREE PROGRAM

1 year

courses and workshops

ARCHITECTURE STRUCTURAL DESIGN LAB

- ARCHITECTURAL DESIGN I
- BUILDING SYSTEMS DESIGN
- STRUCTURAL DESIGN

HISTORY OF CONTEMPORARY ARCHITECTURE AND URBANISM

PROJECT ECONOMIC EVALUATION

RESTORATION LAB

- GEOMATIC FOR BUILT HERITAGE CONSERVATION
- RESTORATION
- STATIC AND STABILITY OF MASONRY STRUCTURES

URBAN SOCIOLOGY

2 year

courses and workshops

ARCHITECTURE AND TOWN LAB

- ARCHITECTURAL DESIGN II
- URBAN DESIGN
- URBAN LANDSCAPE DESIGN

ARCHITECTURE AND ENVIRONMENT LAB

- ARCHITECTURAL DESIGN III
- ENVIRONMENTAL CONTROL TECHNIQUES
- ENVIRONMENTAL DESIGN



ARCHITECTURE AND STRUCTURAL DESIGN LAB

Architectural Design I
Building systems design
Structural design

The course includes an integrated multidisciplinary teaching in: Architectural Design, Structural Design, and Construction Systems Design, focused on structural analysis. The specific educational purposes of a further discussion of the theoretical and operative basis behind structural design and dimension-

ing are integrated with the more general control of the design and composition, and of its constructive connotations, according to an educational plan aimed at providing, through the new Laboratories, an ever increasing organic consultation between the various aspects involved in the design process.



ARCHITECTURE AND STRUCTURAL DESIGN LAB

Architectural Design I

Building systems design

Structural design

The Architectural Design Lab deals with architecture at different scales, from the urban to the interior. Considering space as the main focus of architecture and involving the concept of time as an element of the design, the teaching process thinks of the city as a continuum of sequences which include a variety of spaces, both exterior and interior: rooms, galleries, squares and streets.

Michelangelo's vestibule for the Laurentian Library suggests the idea that an interior space can also mirror a contemporary city's square, in the same way as Pompeii's villas show a distribution scheme based on the atrium concept, which in turn replicates the idea of ci-

vic spaces. These assumptions are the main guide for reading both the built and the unbuilt (void) spaces that compose the rhythm and measure of a city, in the understanding that a project must derive from a collage of information, and not just from the pursuit of an ideal form. The concept of a time-dependent project suggests the idea that we are reading from a cultural background which is the result of a process of growth over time that both develops and transforms the city. A process, however, which is never complete, but rather in a permanent state of becoming, and of which we are ourselves an involved part.

→
students' works from
prof. Riccardo Renzi's class

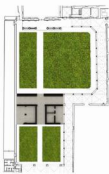
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students' works from
prof. Giacomo Pirazzoli's class



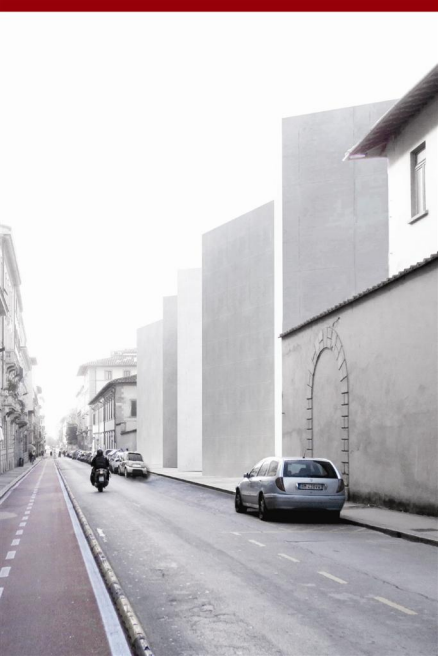
Historic Landscape



Current Landscape



Project





students' works from
Prof. Giacomo Pirazzoli's class





The bird's eye view of the area with the GreenUp intervention





Students' works from
prof. Giacomo Pirazzoli's class



Students' works from
from prof. Riccardo Renzi's class

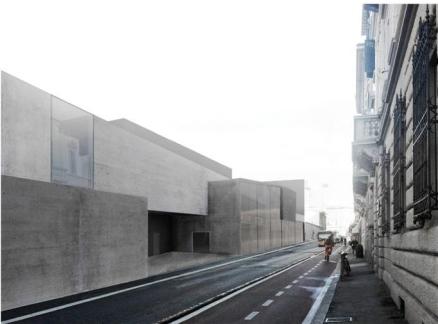
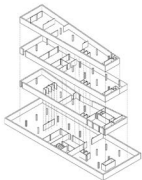






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students' works from
prof. Giacomo Pirazzoli's class

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students' works from
prof. Riccardo Renzi's class



DRAINING THE GRAND CONCOURSE: THE ALTERNATIVE GREEN NETWORK

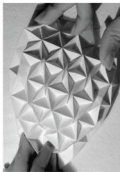


ARCHITECTURE AND STRUCTURAL DESIGN LAB

Architectural Design I

Building systems design

Structural design



In the age of virtuality we strongly believe in materiality.

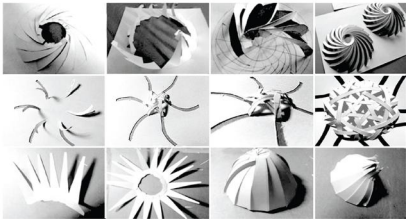
The materiality of buildings that brings alive the poetry of architectures and lets them talk to us; the materiality of the practice of collecting data, investigating, testing and communicating ideas; the materiality of the equipment and machinery that allow us to conceive-fabricate-assemble artifacts and to take care of our environment; materiality as a physic-based behaviour of the con-

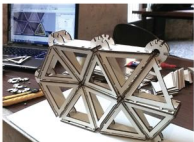
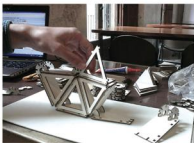
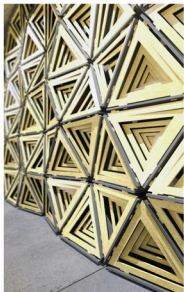
struction elements, materiality of the ecosphere where human bodies experience passions, pains, needs, dreams and death.

We like to experiment because reality in itself is unpredictable, and there is no reason to assume that the future resembles the past.

This is the challenge to be in Florence, in a high "past-density" place where the future was invented.

“we grasp not the
inaccessibility of
the absolute
but the unveiling
of the in-itself”

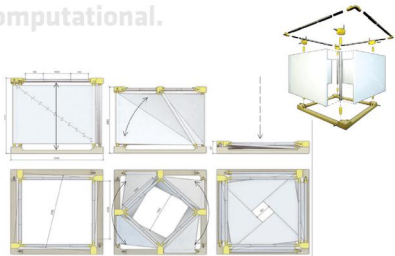




students' works from
prof. Giuseppe Ridolfi's class



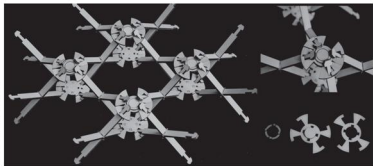
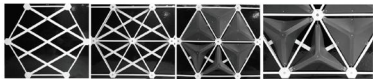
in the tech-era the future is now
computational.

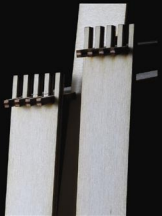
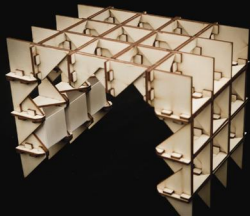
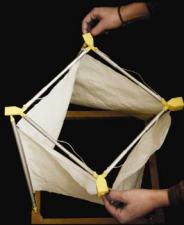


we work. on facts.



students' works from
prof. Giuseppe Ridolfi's class





ARCHITECTURE AND STRUCTURAL DESIGN LAB

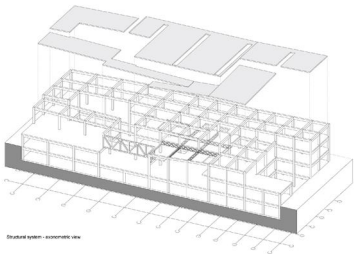
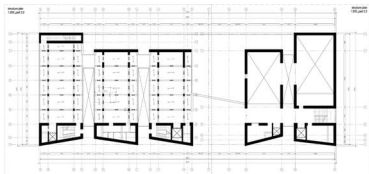
Architectural Design I

Building systems design

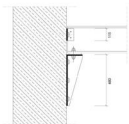
Structural design

The course is aimed at providing students with the basic tools for structural design in seismic areas. Lessons learned from previous earthquakes, along with fundamental concepts of structural behaviour, are the key guides for understanding seismic codes and for developing suitable designs.

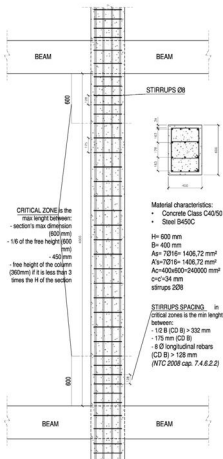
Interactions among structural, architectural and technological solutions are evidenced in order to highlight the significance of design integration especially in seismic areas. Finally, simple practical designs are carried out by students to get an insight of real problems and to check different solutions.



Structural system - isometric view



students' works from
prof. Mario De Stefano's
class



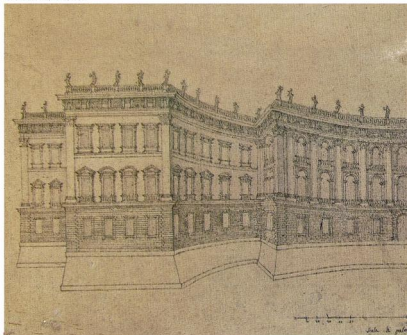
HISTORY OF CONTEMPORARY ARCHITECTURE AND URBANISM

Teaching - and attending - a course on the History of Contemporary Architecture and Urbanism in Florence implies a deep investigation into, and a specific interest in, the origins of Western culture, its theories and fortunes. Issues of intellectual freedom and artistic creativity, colonialism and cultural predominance, cross-fertilization and globalization are essential to define our modern ideas on architecture, cultural heritage, preservation and marketing strategies of historic sites, urban centres, and man-made landscapes. Addressing the role of style, technology and sustainability in contemporary design and urban planning is therefore approached within a wider historical context.

The course focuses on the development of architectural languages and urban forms in Italy, emphasizing the role of major monuments and centres, outstanding architects, and issues of cross-relations in Western European culture. A multidisciplinary approach emphasizes different interpretations of architecture, and their development over the centuries from the birth of the discipline to our days. Special attention is dedicated to the role of Italian and Western models in 19th and 20th century design and urban planning. The course includes lectures, guided readings, on-site visits in Florence and other Italian centres.

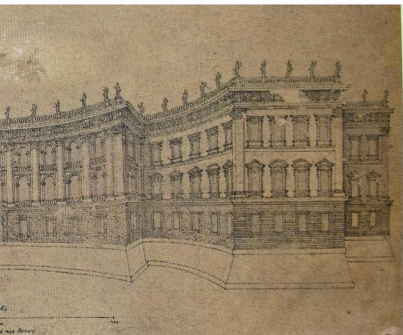


Girolamo Bernini, second design
for the Louvre, Paris, 1665





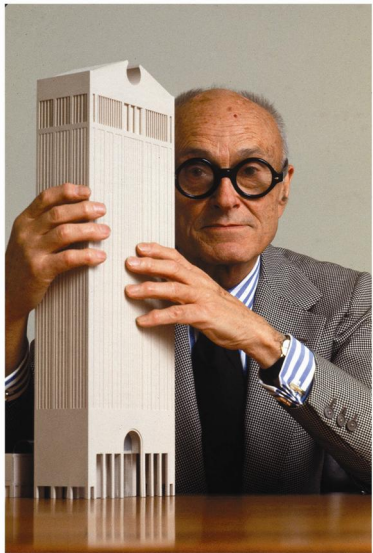
Richard Meier, The Getty Center, Los Angeles, 1984-97





↑
Paolo Portoghesi and the model of
the Mosque in Rome

→
Philip Johnson and the model of the
AT&T building in Manhattan



PROJECT ECONOMIC EVALUATION

The course uses mainly a methodological approach and is aimed to provide the student with a more comprehensive and updated knowledge on project evaluation. Traditional project evaluation is performed mainly at the operative level, and is focused on outputs, results and effects, according to an economic-financial approach (in design) or an ecological-environmental one (in planning) with no integration with the actual architectural and planning decision-making process. Not surprisingly, architects deem evaluation as a constraint, a burden, a waste of time and money. The main goal of the course is to overcome these concerns and prejudices against evaluation. Deci-

sion-making in architectural and urban design is always a complex process due to the multiplicity of skills and disciplines, as well as of the actors and objectives involved. According to a European vision of evaluation, the course proposes to enlarge the traditional roles of evaluation (legitimation, validation and control of choices) performing it as a tool to improve the quality of decision-making processes in the architectural and planning field.

Citizen participation in decision-making offers a new exciting field for testing the new concept of democratic evaluation especially in architectural heritage conservation and restoration.



RESTORATION LAB

Geomatic for built heritage conservation

Restoration

Static and stability of masonry structures

The course includes an integrated multidisciplinary teaching in: Restoration, Statics and Stability of Buildings, and Geomatics for Conservation. The restoration workshop aims to provide the knowledge necessary for the proper execution of the sequences of operational analysis of prevention, and the consequent choices for a consistent intervention directed to the design of the restoration, through a detailed analysis of the following steps: historical-docu-

mentary research, the geometrical survey of the building, knowledge of the construction materials of the building, the analysis of the decay of the materials, and the analysis of static instability. The goals are a correct diagnosis of the disease in the design of the restoration, the knowledge of intervention techniques for the conservation of materials and structures, the dialogue between the old and the new, as well as functional adaptation and security.



RESTORATION LAB

Geomatic for built heritage conservation

Restoration

Static and stability of masonry structures

The role of metric documentation in the management of the cultural heritage has long been recognised. The course provides an overview on the most updated technology and methods:

- modern topography
- digital photogrammetry
- laser scanning
- GNSS systems
- UAV systems.

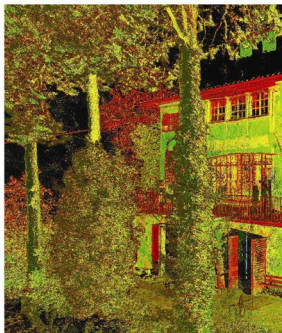
Lectures focus also on:

- good practices for the recording of the cultural heritage

- guidelines for metadata collection

- data sharing and archives.

Working on a real case study, students experience on the field and in the lab operations such as data acquisition and data elaboration: they are also asked to prepare 2D graphical representations (CAD drawings, rectified images, orthophotos) and 3D models (points models and mesh models), useful for supporting thematic maps (concerning materials, decay, cracks, etc.) and further analysis.



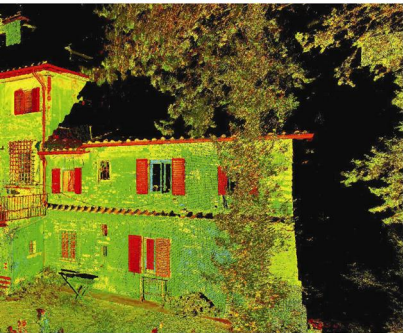


The laser scanning survey of the building was made together with the students.



3D view of the point model of San Martino in Montughi, which was chosen as case study for the practice in the Restoration Lab.

Students during the practice on the field with geomatic instruments



RESTORATION LAB

Geomatic for built heritage conservation

Restoration

Static and stability of masonry structures

To acquire knowledge of the culture of restoration, from the theoretical projects of the 19th century via the declarations of principle of the Restoration Charters, to the latest expressions of restoration culture for the conservation of historic buildings, both ancient and modern, urban centres, historic gardens, archaeological heritage, territory and landscape.

To learn techniques for surveying and graphical representation - manual and computerised - of buildings and places of historic and artistic interest, including the knowledge and use of highly advanced techniques (laser-scanner and similar).

To understand the importance of analysing buildings through historical research and the analysis of original sources, direct investigation of structures, structural surveying, conventional and digital photographic documentation, non-destructive surveys with a high technology content (thermography, georadar, etc.).

To learn to read forms of degradation and impairment in buildings and in the territorial areas under examination, and to represent that reading using international codes, as well as traditional and computerised methods, as an integral part of the conservation project.

To acquire skills for surveying the materials of historic architecture, how they are worked and used, and how they behave over time. Special emphasis is placed on analysing materials: stone, wood, simple and complex masonry and more recent reinforced concrete and modern metal materials.

To learn how to prepare a restoration project throughout all the phases of the project, from the survey to the potential restoration approaches, from structural consolidation to proposals for reusing disused complexes. To prepare for checking regulations and laws governing the technological upgrading of historic architecture in a manner compatible with the existing structures and to learn the technical and bureaucratic procedures for drawing up a restoration project in modern times.

To be aware of the complexity and uniqueness of restoration issues, particularly in relation to the delicate balance between old and new architecture, old and new materials, and the general issue of contemporary addition while understanding a place's identity, and the requirements of conservation versus free expression.

To acquire a knowledge and direct experience of the manifold topics and issues arising on a restoration site.

→
students' works from
prof. Maurizio De Vita class



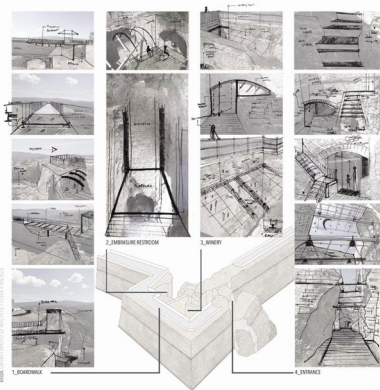
The restoration lab complements the training experiences by providing information on conceptual stages, working tools, regulatory data, and the significance of and methods for preparing all the phases involved in a modern-day restoration project. Following the theoretical teaching and its application in the field, through visits to restoration sites, individual students prepare a project that is as comprehensive as possible in terms of both the definition of each of its stages, from survey to proposal, and the progression from the general concept to the

detailed development of certain parts, elements and construction systems.

Specific attention is given to contemporary additions to historical buildings and sites.

Educational goals are: to learn how to prepare a restoration project, from the survey to the potential restoration approaches, from structural consolidation to proposals for reusing disused complexes. To prepare for checking regulations and laws governing the technological upgrading of historic architecture in a manner compatible with the existing structures.

To be aware of the complexity and uniqueness of restoration issues, particularly in relation to the delicate balance between old and new architecture, old and new materials, and the general issue of contemporary addition while understanding a place's identity, and the requirements of conservation versus free expression.





←↑
 students' works from
 prof. Maurizio De Vita class

RESTORATION LAB

Geomatic for built heritage
conservation

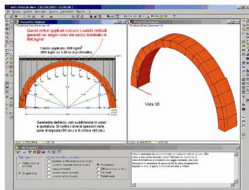
Restoration

Static and stability of
masonry structures

The course aims to provide the students with the tools necessary to deal, in a critical way, with the problems concerning the reading and analysis of historical masonry buildings, taking into account the problems of stability and safety. After the deepening of the issues concerning constructive principles, as well as the rules, techniques and materials which characterize the historical architectural heritage, some specific aspects will be discussed related to the behav-

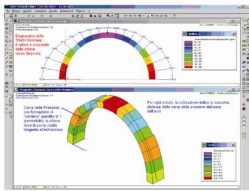
iour of the most common historical constructive systems, with particular reference to the matters regarding the equilibrium and limit analysis of structural systems made with overlapping blocks, arches, vaults and domes of masonry.

The expected outcome at the end of the course is the acquisition, by the students, of critical skills in the analysis and assessment of the structural safety of historical masonry buildings.



Numerical model for the analysis of masonry arches under no-tension hypothesis

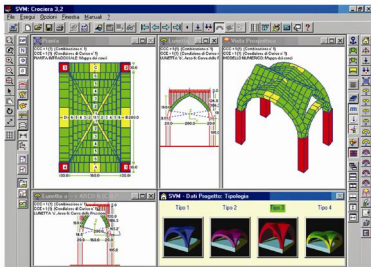
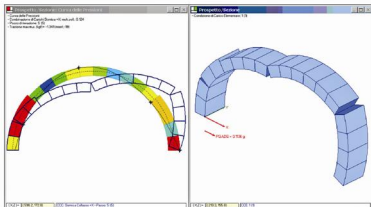
Numerical model for the analysis of masonry arches under no-tension hypothesis. The line of thrust

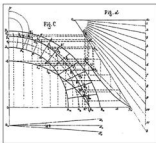
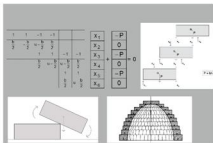




Numerical model for the analysis of masonry arches under no-tension hypothesis.
Kinematic configuration

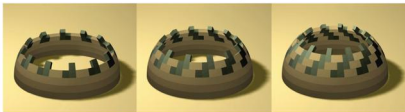
Numerical model for the analysis of masonry arches under no-tension hypothesis.
Definition of geometry





↑ Static analysis of rigid block structures. Beehive domes

↑ Graphical methods available for the analysis of masonry domes. M. Lévy's Method





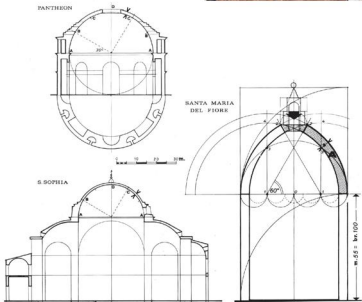
Work in the classroom of the prof. Giacomo Tempesta



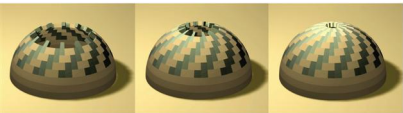
The dome of Santa Maria del Fiore. A case study



The dome of Santa Maria del Fiore.
Comparison with other large domes of the past.



Construction sequence by the technique of "herringbone" ↓



The course on Urban sociology presents a sociological approach to architecture, planning and design. It aims to develop the sensitivity of architects towards the multifaceted relationship between their intentions and the interpretations of those intentions by the final users/inhabitants of what they design.

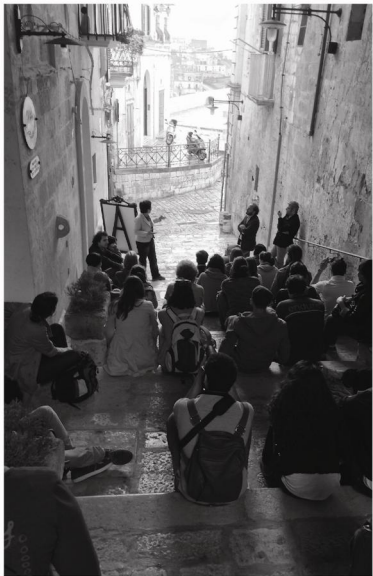
The course has both a theoretical and a methodological approach. Students are first introduced to a set of concepts related to sociology and other social sciences and to

a theoretical framework concerning the relationship between people, space and the city. The course presents a wide range of research tools to study what people do to and with architecture: interviews, direct observation, video and photography, shadowing, mental maps, etc.

The course promotes the active involvement of students through class discussions, group work and fieldwork to practice empirical research methods.

“[The project] proposed by [the designer] is only a potential environment; the social system and culture of the people who will use it determine to what extent [the project] becomes an effective environment”.

Herbert Gans, *People and Plans*, 1968, p. 6.









ARCHITECTURE AND THE CITY LAB

Architectural Design II
Urban design
Urban landscape design

The course includes an integrated multidisciplinary teaching in: Architectural Design II, Urban Design, and Urban Landscape Design. The workshop aims to provide students with a design methodology at different scales of urban, landscaping and architectural planning in the critical spaces of the contemporary city.

To achieve this objective, the Laboratory experiments with theories and integrated methods of interpretation, planning and design of

urban places in decline or severely degraded in order to redevelop and reinvent the quality of urban space, its system of relations and functions and the 'attractiveness' of the urban landscape. The Laboratory is structured in phases of experimentation and elaboration of design concepts in order to simulate the undertaking of a real professional project by the students.



ARCHITECTURE AND THE CITY LAB

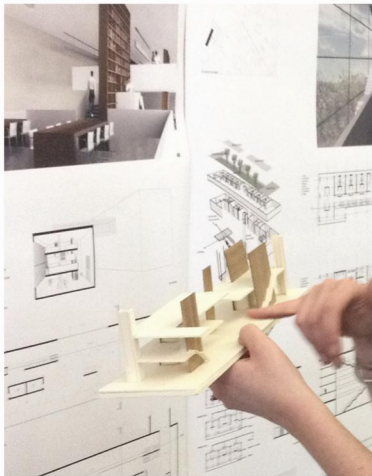
Architectural Design II

Urban design

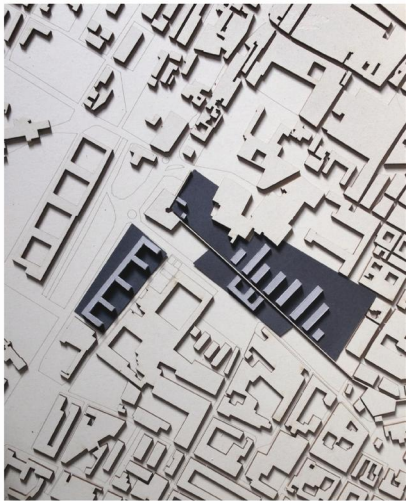
Urban landscape design

The class aims to achieve the student's ability to understand and analyze the complexity produced by the traces and the system of signs in the historical process of city growth. It will also focus on the architecture in different scale than the single building opening the field to the relation between city and landscape. The course is supported by different topics useful for better understanding the final goal: from a series of lectures on the city and its architecture (inner, language, consequences of spaces) and the contemporary architectural landscape

capable of providing the minimum baselines for the project activity, through practical exercises, and analysis useful to develop a sense of real-space designed. A strong bibliography set the minimum base as a useful tool to the formation of a minimum critical observation of the architecture and the city. The theme of the workshop is the special architecture type (eg. or. small museum, primary and middle school, civic center, garden supporting functions) small size to fit into the context of a city or its developing.



↑
Parallel Lab on Prato's former Hospital, held by Prof. Coliotti
at Icad Unifi, Shandong University (Jinan-China) and Unitec Auckland (NZ)
according to the international current agreements activated by DIDA.



students' works from
prof. Francesco Colotti class



ARCHITECTURE AND THE CITY LAB

Architectural Design II

Urban design

Urban landscape design

The Urban design laboratory focuses on the main problems of contemporary urban settlements, with particular reference to urban fragmentation and public life, environmental sustainability, and spatial justice. The laboratory contemplates a strong theoretical section aimed at providing new frameworks for the design of cities today.

The goal of the laboratory is three-fold:

- to develop an understanding of the contemporary city beyond the historically-rooted ways of conceiving it;
- to discuss urban design case studies which successfully deal with contemporary settlements;
- to design highly complex and fragmented areas.

Special supplementary courses such as "Rethinking non-places", and "Cross-Disciplinary Perspectives on Urban Space", are offered to enrich the perspectives which guide our design action.



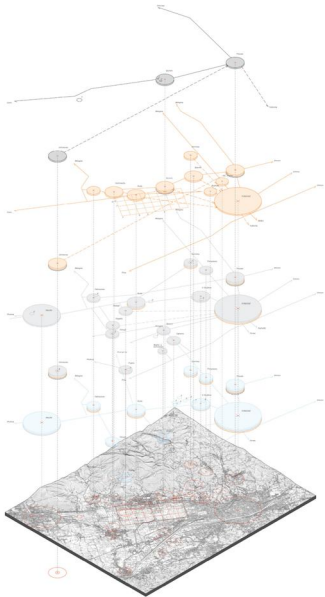
students' works from
prof. Giulio Giovannoni class







students' works from
prof. Giulio Giovannoni class



ARCHITECTURE AND THE CITY LAB

Architectural Design II

Urban design

Urban landscape design

The aim of the Studio is a reflection on the contemporary urban-landscape project; on the changing conditions in which it can be conceived; on the characters of the habitable space; on its main infrastructures and on the possible innovations that may affect it.

The Studio will observe and read places and territories in transformation, questioning them with different hypothesis about their future; looking for new representations of the territory both as infrastructure and as a living place.

Scenarios related to new way of living, moving, and inhabiting the

city and the territory will be explored to understand the ways in which the contemporary urban landscape has been and shall be a support for an innovative ecological project.

Through a "research by design" practice, students are urged to relate the multiple dimensions and facets of urban space (morphological, social, symbolic, etc.), acquiring the ability to prefigure transformations, using a plurality of design instruments and representation techniques (descriptive survey, construction scenarios, master plans, urban design, landscape design, etc.).

→ ↗
students' works from the class of
prof. Enrico Anguillari, prof. Francesco
Coliotti and prof. Giulio Giovannoni







students' works from the class of
 prof. Enrico Anguillari, prof. Francesco Collotti
 and prof. Giulio Giovannoni





ARCHITECTURE AND THE ENVIRONMENT LAB

Architectural Design III
Environmental control techniques
Environmental design

The course includes an integrated multidisciplinary education (architectural design, environmental design, techniques for environmental control) focused on the relationship between natural and built environments. The general objective of the course is to provide students with the necessary tools for generating an environmental approach to architectural design. Tools and methods for environmental design of buildings:

identifying problems that emphasize the conceptual strategies of form and space, the relationships of the site and the social, technological and environmental determinants. The workshop aims to provide expertise on the development of design, the choice of materials, energy assessments and the use of assessment tools.



ARCHITECTURE AND THE ENVIRONMENT LAB

Architectural Design III
Environmental control techniques
Environmental design

The Architecture and Environment course is very multidisciplinary, bringing together different areas, including architectural, environmental and landscape design, history and restoration in historic centers, energy use, economic and environmental impact assessments, innovative technologies, building techniques, and new materials, as well as new building techniques. Given the widespread awareness that design requires a full understanding and appreciation of "environmental sustainability," and considering the universal acceptance of the concept of "sustainability," as seen first with the Shanghai Expo in 2010, called "Better Cities, Better Life", and the Milan Expo "Feeding the Planet, Energy for Life," the course will explore this issue in depth, situating it within the major development of the realm in the contemporary world.

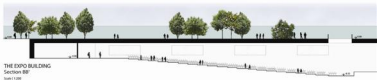
Buildings must be built with consideration for the environment in which they are set and meet specific social demands that have to do first with the habitat, energy consumption and the buildings' emissions. Clearly not a passing trend, this is a need to respond to a genuine environmental emergency requiring all countries to dramatically cut greenhouse gases, a third of which are produced by human activities related to housing. At last, the belief has become widespread

in the fields of construction and architecture that every human action is reflected in the community's life. This means that the those related to "building" must involve taking specific responsibilities requiring all those involved to carefully adopt criteria, methods and products that let us consciously act with respect for the environment.

The issue of sustainability in architecture expresses itself and is developed differently in the diverse areas of technological/construction design as well as compositional design. These different aspects clearly must be integrated and interrelated to achieve optimal efficiency and performance for the building envelope. Yet, before we consider technical details and the choice of materials and components based on efficiency, we must correctly set up the design in terms of siting and distribution. This is achieved through "composition"—from the Latin "componere," meaning to putting the design's factors and perspectives in a cohesive system.

Since the time of Vitruvius in the classical era, it was already understood that an architect had to consider certain elements and take care to fulfill the requirements of healthfulness, comfort and efficiency for any work of architecture. The choice of where to build and the building's exposure to the sun were, and still are, key elements at the

↓ →
students' works from
prof. Laura Andreini class



THE EXPO BUILDING
Section BB'
Scale 1:100



foundation of all correct, sustainable construction. Through the exercise of design, the course will seek to provide the theoretical and practical elements needed, adopting an architectural application focused on studying interactions between the building and environment, and the building and context.

The project area chosen for design practice is in Florence's main city park, the Cascine. This choice was made intentionally to develop the

specific qualities that weave nature and artifice, green space and the city fabric. The question that the design proposals are asked to answer entails developing a design that can make this park livable and useable without altering the balance with the natural context that green areas always implicitly have. In other words, it is about making sustainable (and therefore compatible with human activities) the architecture and the natural context in which it is set.

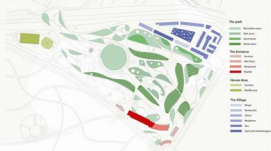
The course is organized with an "on-the-job" approach, making the educational process dynamic and engaging with fewer lectures and more application and seminar work. The set of activities, spread over a semester, will take place mainly in the classroom and involve planning and developing a final project.



MASTERPLAN
Scale 1:500



FUNCTIONAL PROGRAM



The park

- Remembrance
- Site core
- Green space
- Play area

The Exhibition

- Service
- Art space
- Workshop
- Market

Private Area

- Residence
- Health care

The Village

- Work
- Residence
- Office
- Workshop
- Art
- Specialized buildings

SECTION A-A'
Scale 1:500





ABACUS OF TREES

COMMON TREE



Common Tree
This tree is a versatile, hardy and fast-growing species. It is suitable for all climates. They are located along the streets.

COMMON TREE



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ARCHITECTURE AND THE ENVIRONMENT LAB

Architectural Design III
Environmental control techniques
Environmental design

The course offers the necessary knowledge of Environmental Control Techniques for the accomplishment of a practical project driven by a strong architectural design and by an integrated approach to problem solving concerning the production and management of buildings, urban spaces, infrastructures, and supplies students with research opportunities, specific design solutions, as well as other aspects and requirements related to well-being and climate control systems.

The semester-long programme provides the means of support to assess the capabilities and contributions that building products make to the conservation of energy, introducing participants to the practice of Building Performance Simulation (BPS) as a source of feedback, in the early stages of the architectural project, taking advantage of specific affordances, through fine-grained data descriptions and parametric scripting for design.

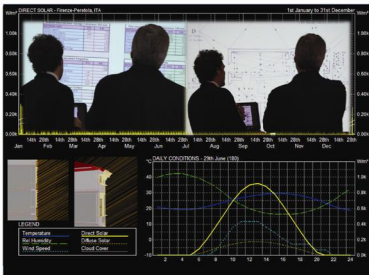
The analysis scenarios related to the project result from the adoption of many tools, such as: detailed calculation procedures and/or other energy performance-related standards, regulations in terms of energy targets, energy performance of various design alternatives,

conservation measures on the existing building, future projections of resource needs.

In this regard, standards, methods and software applications are described and taught during class activities, in relation of the definition and production of energy assessments, based on: measured energy (operational rating), computation methodology (asset rating), accuracy of the calculation (simplified or detailed), discrepancies between new or existing buildings, energy performance certificates, mutual relations between energy performance and indoor environment quality. All these above-mentioned aspects are enhancing and standardizing new Environmental Control Technique practices in this field, which finds itself today at a crucial juncture between the project and its feasibility.

The confidence with the practice of Environmental Control Techniques will allow students to interact with their environments, using appropriate materials and processes in response to needs, wants and circumstances. Class activities, taught principles and project works are all in compliance with contemporary regulations and informed by best practices.

→ students' works from prof. Luca Giorgi's class



ARCHITECTURE AND THE ENVIRONMENT LAB

Architectural Design III
Environmental control techniques

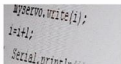
Environmental design

Systems and components design» and «Environmental Design» represent the disciplinary contribution of «Technology of architecture» to the two integrated laboratories «Architecture structural design lab» (1st year) and « Architecture and Environment Design Lab » (2nd year). The aim of these two classes is to apply strategies and procedures of the advanced manufacturing to architectural construction: specifically the opportunity offered by the information technologies in designing, managing and fabricating valuable/reliable architectures.

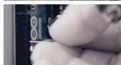
« Environmental Design » is the class of the second year integrated course. It focuses on methodologies and digital tools to achieve a

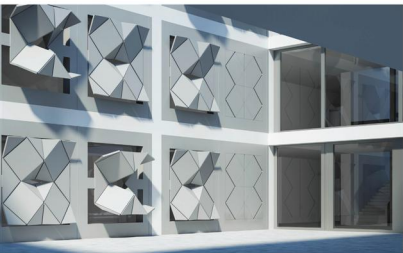
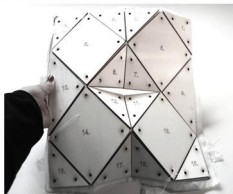
holistic design approach as well as an integrated management of its processes in order to maximize the excellence of construction, quality of living and occupant comfort while minimizing or eliminating negative impacts to the environment.

Comprehensive Design for Smart Architecture is the title that outlines the topic and educational goals of the class, specifically the teaching of methodologies and dedicated software to address a parametric approach for site analysis; mass modeling in the early phase of schematic design; performance design applied to energy modeling; integrated design management

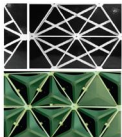


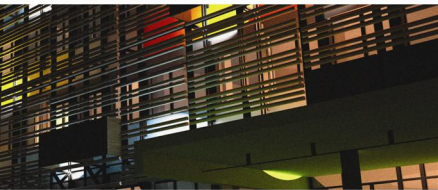
students' works from
prof. Giuseppe Ridolfi class





students' works from
prof. Giuseppe Ridolfi class







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Plan, November 1998 Scale



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Longitudinal Section, 1998 Scale



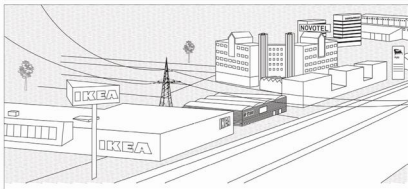
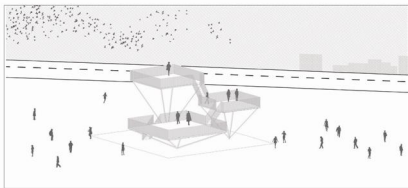
Sabrina Mitu, reusing the power station Kraftwerk Wedel built 1960 by Bernhard Hermkes near Hamburg on the riverside of the Elbe, thesis in cooperation with Hafen City University Hamburg Prof. Paolo Fusi (Tutor Prof. Collotti).



Olivia Falsini, recovery intervention for the rehabilitation of the tonnara of Santa Panagia in Syracuse (Sicily) in cooperation with SOS Syracuse (Tutor Prof. Collotti).





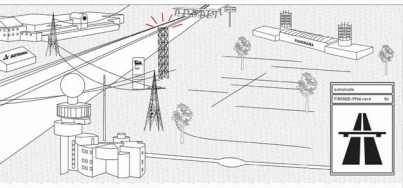


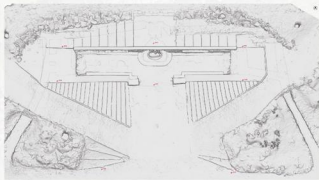
Olivia Gori, Metropolitan Park of the Piana Fiorentina. A journey through Space-Time-Velocity. (Tutor Prof. Giovanni, Co-Tutor Arch. Così)



Metropolitan Park

just a few minutes from Peretola Airport





Il giardino di Pratolino, progettato da Bernardo Rossellino e Giovanni Battista Piranesi, è un capolavoro del barocco romano. La sua struttura è basata su un sistema di terrazze e camminamenti che si sviluppano su un terreno irregolare. L'elemento centrale è la fontana di Apollo, che si affaccia su una terrazza superiore. Il giardino è caratterizzato da una forte simmetria e da una serie di giochi di luce e ombra, che creano un'atmosfera magica e suggestiva. La pianta mostra la disposizione delle diverse terrazze, delle fontane e dei camminamenti, con le linee rosse che indicano i percorsi principali.



Architettura	
Autore	Bernardo Rossellino, Giovanni Battista Piranesi
Località	Pratolino, Firenze
Materiali	
Materiali	Mattoni, pietra, stucco
Stato di conservazione	
Stato di conservazione	Parzialmente restaurato
Altre informazioni	
Altre informazioni	Il giardino è aperto al pubblico.



Martina Zanetti: The Medici park of Pratolino: analysis, conservation, communication.
(tutor: prof.ssa Grazia Tucci, co-tutors: arch. Valentina Bonora, arch. A. Conti, arch. L. Fiomini, dott.ssa R. Poli)



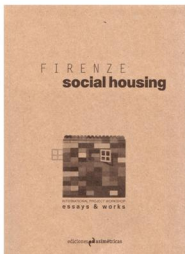
PUBLICATIONS
WORKSHOPS,
AND SEMINARS





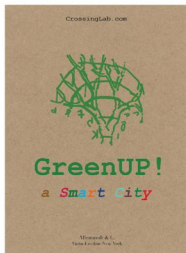
Prato (China) Crossing New Zealand

Prof. Francesco Collotti,
 Prof. Tony van Raat
 tutors: Luca Plantini, Angelo Farnicella, Serena Accioi, Giovanni Calabrese, Niccolò Campanini, Caterina Steiner.
 10-26 June 2013 - 6 Cfu



Firenze Social Housing. International Project Workshop, Essays & Works.

Ediciones asimétricas,
 Madrid, 2010
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GreenUP - a Smart City

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ACADEMIC STAFF

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Laura Andreini [laura.andreini@unifi.it]

Architectural Design III

tutors: *Lorenzo Malavasi, Lara Tannicchi*

Laura Andreini (PhD), is an architect who since 1999 has been Research Fellow at the University of Florence in the Department of Architecture Design, History and Planning. She taught Architectural Composition I at the University of Florence until the academic year 2006-2007, and Architectural Composition II from 2007 to 2014. She was full professor of the course on Industrial Furnishing and Design in 2011-2013 and is currently full professor of the Course of Architectural Design III, part of the Environment and Architecture Lab; and Architectural Design III, part of the Architecture and Environment Lab. Over the years her teaching work has been combined with research and professional work in architectural design, particularly since 1988, when she and the architects Marco Casamonti and Giovanni Polazzi founded Studio Archea. Her research and exploration of the issues of architecture within the disciplines of architectural composition and design is expressed in her direct relationship with contemporary architecture culture, given voice through architecture journals and specialized publications. She has been actively and continuously involved in the editorial committee for "Area", Architecture and Design Arts magazine for which she has been deputy editor since 2003. Since 2012 she has been technical editor of Forma Edizioni publishing house, for which she is also editing two series: one concerning contemporary Italian architecture, called "One" (since 2011), and another about architectural itineraries, called "On the Road" (since 2014). Also for Forma publishing house, and as of 2014, she has organized cultural initiatives and events at Spazio A Florence, specifically the following conference series: Constructing Architecture and Florence, 1865-2015. A new capital: culture, custom, architecture.



Enrico Anguillari [enrico.anguillari@unifi.it]

Urban Landscape Design

Graduated in Architecture from the Iuav University of Venice, in 2007 he obtains a Ph.D. degree in Urban Planning and Design under Prof. Bernardo Secchi. He has worked in several large scale plans and projects, among others the "Structural Plan of Ferrara"; the "Plan guide d'aménagement de Les Hauts de Rouen"; and the "City Plan of Roncegno Terme". From 2008 to 2011, as postdoctoral research fellow, he was responsible for the "Landscape Observatory of the Po river delta region", developing specific skills regarding river basins and coastal systems planning.

Over the years he has focused his interests on the landscape project in environmentally fragile areas, paying particular attention to a "water sensitive" landscape design approach. In this context it is worth mentioning the research "Veneto 2100 - Living With Water", selected for the 5th International Architecture Biennale of Rotterdam - "Making City". His professional and research activity has been combined with and supported by a constant attention to teaching. Adjunct professor at the University of Camerino, at the University Iuav of Venice and at the University of Florence, he taught in several international programmes (EU-

LLP Erasmus Intensive Programme). He lectures regularly in academic and professional fields, and has published essays and articles in books and journals both nationally and internationally.



Marta Berni [marta.berni@unifi.it]

Urban Landscape Design

She is an Architect and Researcher in the ICAR/22 Disciplinary Scientific Sector. Since 1997 she has been lecturing at the following Master of Science courses: Architecture UC (class 4/5); Architectural Design (LM-4) and in Planning; Designing the City and the Territory (LM-48) of the Faculty of Architecture of the University of Florence, teaching: Real Estate Valuation, Economic Evaluation of Projects and Plans, Project Evaluation, Economic Evaluation of the Project. She currently is lecturer of "Economic Evaluation of Projects" within both the Italian and English curricula ("Architectural design") of the Master of Science in Architectural Design (LM-4). She also teaches Economic Evaluation of Projects at the Post-Graduate School in Architectural Heritage and Landscape of the University of Florence. She is a researcher in the field of decision-making evaluation related to planning and design, with special attention to the evaluation of: re-qualification projects in large urban distressed areas; urban sustainability; urban effects of the use of communications and information technologies; public-private partnerships in urban strategic projects; green infrastructures. Her research interests have been focused recently on the democratic evaluation of structural (architectural and urban) projects with a special attention on architectural heritage restoration and conservation projects, as well as on the methodological aspect of case-studies as a research strategy in the development of project and urban plan evaluation. She also has a long experience in relevant European research projects (LUDA, INTELCITY, INTELCITIES).



Mario Bevilacqua [mario.bevilacqua@unifi.it]

History of Contemporary Architecture

Associate Professor in Architectural History. He has won scholarships and grants from the CNR, Centro Internazionale di Studi Andrea Palladio, Vicenza, and the Getty Research Institute in Los Angeles.

Mario Bevilacqua has lectured in Italy and abroad; he has organized seminars, conferences, cultural events and major exhibitions in outstanding museums and foundations.

He is Coordinator of the Section of History of Architecture and the Curriculum of History of Architecture in the Doctoral programmes of the Department of Architecture at the University of Florence.

He has published extensively on themes of Italian architectural and urban history in the Western context between the late middle ages and the early 19th century, emphasizing issues of power and patronage, language and theory, graphic and written circulation of models in architecture and urban representation. He is the author of several monographs on monumental buildings, architects, urban centres and cartography. He has contributed to major Italian and foreign scientific journals, and has edited books both in Italy and the United States.



Francesco Collotti [francesco.collotti@unifi.it]

Architectural Design I, Architectural Design II, Architectural Design III
tutors: Serena Acciai, Angela Formichella, Nicolò Campanini, Miso Rasic, Zorica Vukovic, Federico Coricelli

(1960) Professor at DIDA of the Florence University, promoting not only the research on architectural identities, but also involved in the international programmes concerning scientific and cultural cross-fertilization supported by Unifi. His activity is divided between research, professional work and teaching. He is engaged in a sustainable, site-specific and responsible contemporary architecture. He believes that we are what we are doing: and he does know that his work is a far cry from the fashionable, global, glamorous, unsustainable and a bit ridiculous star system architect's market (F. Collotti currently builds in Italy, Jordan, Oman, Turkey and Frankfurt). He has promoted exhibitions, symposiums and conferences related with teaching, both inside the School and outside. He is a contributor of the review *Domus* (1985-1995), as well as of Fondazione Masieri in Venice and is on the editorial staff of *Phalaris* (1989-1994). Teacher at International Design Seminars "Naples, architecture and city" (UniNa, DOMUS, D.A.M. Frankfurt). Since 1997 he has been a member of the Scientific Committee of the Swiss review "Rivista Tecnica" and since 1998 of *Archi*. His articles and essays are published in the most important international architectural reviews (*Werkbauen+wohnen*, *Domus*, *Casabella*, *Archi*). Member of the editorial staff of "Firenze-Architettura" edited by the DIDA of UniFi. Visiting professor at ETH Zürich in architectural theory, and at Institut GTA (1994-96). Professor (1998-01) in Theories of contemporary architecture in Architectural Design at UniFi. Visiting professor (2000-01) for Entwerfen und Städtebau, at the Faculty of architecture, Universität Dortmund. Professor of Architectural Composition at SSEAU Naples and at Politecnico di Milano-Facoltà di Architettura Civile. Visiting Professor in China at Jinnan University (2012-14). Professor at the 2nd level master programme promoted by the Università Federico II in Naples and by the review DOMUS, focused on the design for the historical heritage of the city.



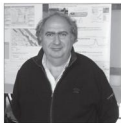
Paolo Costa [paolo.costa@unifi.it]

Urban Sociology

Paolo Costa teaches Urban Sociology and Sociology of Design at the School of Architecture.

His scientific research focuses mainly on the complex relationship between social sciences and design at its various scales. With a PhD in Methodology of social research, he has studied research methods for planning, architecture and object design. He also analysed the relationship between spatial and social dimensions in specific fields: urban security and fear of crime, shopping and consumption, cultural heritage, environmental sustainability, health and social rights, and local identity. He was involved in several urban planning and designing projects, coordinating participatory strategies and awareness raising campaigns, in Italy and abroad, and adopting a wide range of participatory techniques, such as Community and Cultural Mapping, Participatory Photography, and Co-design.

His publications include articles and book chapters about his research and projects. His book "Valutare l'architettura. Ricerca sociologica e Post-Occupancy Evaluation" (2014) focuses on the assessment of designed spaces from a sociological perspective, analysing different approaches to compare design intentions with how spaces are actually lived and used by their inhabitants, and showing what architects and designers can learn from this practice.



Mario De Stefano [mario.destefano@unifi.it]

Structural Design

Tutors: Valerio Alecci

Full Professor - Coordinator of DIDA's Materials and Structures Division. Scientific Director of the Official Laboratory for Material and Structure Testing. Coordinator of WG8 (Seismic Behaviour of Irregular and Complex Structures) of the European Association of Earthquake Engineering. Research interests: engineering and architectural issues regarding constructions in seismic areas (ordinary, strategic and monumental buildings); seismic risk analysis at the territorial scale; seismic resilience of strategic buildings.



Maurizio De Vita [maurizio.devita@unifi.it]

Restoration

Professor of Restoration at the School of Architecture-Dipartimento di Architettura, University of Florence.

Director of the Postgraduate School in Architectural and Landscape Heritage, University of Florence.

Member of the national executive of the S.I.R.A. - Italian Society of architectural Restoration.

Member of INN-LINKS Research Centre for Innovation and Local and Indigenous Knowledge Systems - University of Florence.

In 2003 and 2004 he taught the Restoration Studio at the Faculty of Architecture at Ascoli Piceno- University of Camerino. In 2006 he taught Landscape Restoration at the Faculty of Architecture in Venice - IUAV. Since 1985 he has given lectures, participated in exams and seminars at several foreign universities such as Columbia University, Syracuse University, Azerbaijan School of Architecture (Baku, Azerbaijan), Beijing University of Civil Engineering and Architecture (China).

Winner of national and international architecture competitions. He designed and supervised several restoration works of monument complexes, historical parks and urban spaces in historical compounds for public and private entities. He participated with his projects in several architecture exhibitions in Florence, Parma, Viareggio, Turin, Paris, Syracuse (New York) and Prague. His projects were published in journals and magazines such as *d'Architettura*, *Casabella*, *Controspazio*, *Arca*, *Architecture d'Aujourd'hui*, *L'Industria delle Costruzioni*, *Recuperare l'Edilizia*. www.devitassociati.it

Organiser and curator of architecture exhibitions and international meetings. Author of academic publications in the fields of restoration, history of architecture and architectural planning. Founder and Director of *OPERE-Tuscan Journal of Architecture*.



Giulio Giovannoni [giulio.giovannoni@unifi.it]

Urban Design

tutors: *Olivia Gari*

Giulio Giovannoni, Phd, studied in Italy and completed his education through several and extensive research visits to the United States. In 2006-2007 he was visiting scholar at the Graduate School of Design, Harvard University. In 2007-2008 he gained a fellowship in Urban Studies at the Institute for Policy Studies, John's Hopkins University. In 2013-2014 he was visiting scholar at the College of Environmental Design, UC Berkeley. His research focuses on urban planning and design, urban theory, design of non-places, and Tuscan cultural history. He teaches the following courses: Urban Design, Rethinking Non-Places, and Cross-Disciplinary Perspectives on Urban Space.



Riccardo Pacciani [riccardo-pacciani@unifi.it]

History of Contemporary Architecture

Associate Professor in History of Architecture. He graduated at the School of Architecture at the University of Florence. He was Teaching Assistant at the Center for the Study of Renaissance and Baroque Art of Pennsylvania State University, before being enrolled in the University of Florence as Researcher. He was granted an assistantship by the Art History Department of Pennsylvania State University and a fellowship by the Centro Internazionale di Studi Andrea Palladio, Vicenza. He carried out research at the Kupferstichkabinett, Berlin, and other major libraries in Florence, Munich, Vienna and Utrecht. He has lectured in Italy, the United States, Paris, Berlin and Jerusalem; he has organized seminars, conferences and exhibitions in outstanding museums. He has published widely in major Italian and American journals on themes concerning Italian architectural history between the 15th and the late 18th centuries. His research is now focused on the history of the interior setting of Florentine religious buildings and its connection to architects' lay as well as patrons.



Giacomo Pirazzoli [crossing@GPspace.org]

Architectural Design I, Architectural Design II

tutors: *Cristiano Balestri, Giada Cerri, Eric Medri, Lenny V.Schiaretti*

Giacomo "Piraz" Pirazzoli (b.1965) is an architect graduated with honours at the School of Architecture, University of Florence. He carried out research at the Fondation Le Corbusier after his PhD (Rome, La Sapienza), while practising at Christian De Portzamparc's studio in Paris. A professional based in Florence and Milan, he has designed several buildings, museums and exhibitions, often in collaboration; Pirazzoli's works have been mentioned in articles, essays and books published in Italy and abroad. Institutional duties include: European Architects Council, Brussels (1997-2001, Committee Member); University of Florence (from 2000 to the present, Associate Professor of Architectural Design), Architectural Design PhD School (2000-2010, Committee Member), iCad, International Course on Architectural Design (2011-2014, Coordinator); Ministry of Foreign Affairs, Italy (2000-2003, Albania Project); Academy of Fine Arts, Florence (2002-2006, President); Stibbert Museum, Florence (2002-2006, Board member), etc. He coordinated (2007-2009) "Site Specific Museums" www.

sismus.org and he currently serves as director of CrossingLab.com. "Crossing Research On Site Specific, Innovation, Globalisation" think-tank at the Department of Architecture, University of Florence. He has taught and given lectures abroad at ETH-Zurich, ENSAM Montpellier, EPOCA-Buenos Aires, YSUAC-Yerevan, Columbia University-NY, Malta University, ETSA-Valencia, ITU-Istanbul, Syracuse University, ETSA-Madrid, Helwan University Cairo, CEU-San Pablo Madrid, Hochschule München, Auburn University-Rural Studio, Washington University in St.Louis, Cooper Union NY, as well as at the TEDxConference "GreenUP - a Smart City".



Riccardo Renzi [riccardo.renzi@unifi.it]

Architectural Design I

tutors: *Livia Ballan, Margherita Falcioni, Chiara Giuseppini*

(Firenze 1979), Ph.D. (2007-2009), Adjunct Professor at Unifi since 2010, he studied in Florence and developed his thesis project in New York. His research field focuses on Italian architecture of the 20th century, he is curator of Cherardo Bosio's Archive since 2007 and of Alfredo Lensi's Archive since 2011. A partner of Associazione Studi Fiorentini since 2012, he has worked on and studied social housing developments from 2011 and works, as of 2014, at the PPcP research unit of Dida, of which he is a member since 2015. Involved in many UNIFI research activities on urban projects, some of which he has coordinated and others of which he is now coordinator. Author of four books on architecture, several essays and articles, he attended, and organized many conferences, and participated in exhibitions both for his research and works. Active as an architect since 2005, he has been selected as emerging architect in 2010 by the magazine presstletter, and as host for some conferences in Rome focused on the role of the contemporary architect organized by magazines such as L'Arca, pressImagazine, as well as by Ance and In-Arch. He won the first prize competition for the new marketplace in S. Ambrogio in Florence (2005), the second prize for the new centre of Rignano sull'Arno (2005), the second prize of In-Arch for an emergency home design after L'Aquila Earthquake (2009), the second prize for the new centre of Novate Milanese in Milan (2009), and the first prize for the new Montesanto subway station in Naples (2013).



Giuseppe Ridolfi [giuseppe.ridolfi@unifi.it]

Building System Design, Environmental Design

Architect, PhD in Technological Design of Architecture, professor at the School of Architecture and member of the Department of Architecture, University of Florence since 1996. He is the director of Mailab - Multimedia Architecture Interaction, a university spin off on research and technological design. (www.mailab.biz)

His focus is on digital technologies for architectural design, project management, computational design, visual design, multimedia communication, and new media art. He designed and coordinated large projects for public use and planned structural systems for educational services, universities, social care facilities and hospital buildings. He has held consulting roles in Public Administration and in the Ministries of Health and Education, University and Research. He has created tools and relational databases to support project decision making and for assessing buildings. In the field of multimedia he has carried out the

following: video-clips and stereoscopic documentaries for marketing; video projections and interactive installations for art. His works are published in books, catalogues and magazines. His work in video and installation has been presented in theatres, art galleries, museums and centres for art.



Giacomo Tempesta [giacomo.tempesta@unifi.it]

Static and Stability of Masonry Structures

September 3, 1950, Teramo. Academic Position and Teaching Activity: Associate Professor of Statics & Science of Construction (Disciplinary Sector ICAR 08), Department of Architecture, University of Florence, Italy. Head of the Bachelor's Degree in Science of Architecture at University of Florence. Professor of Statics and Stability of Masonry Monumental Buildings, Department of Architecture, University of Florence, Italy. Professor at the School of Specialization, Analysis and Evaluation of Cultural and Environmental Heritage, University of Florence, Italy. Member of the Teaching Board of the PhD in Structures and Conservation of the Architectural and Cultural Heritage, belonging to the "PhD School of Architecture" of the University of Florence. Member of the Teaching Board of the 2nd Level Master on Seismic Structural Improvement, Restoration and Repair of Historical and Monumental Buildings, University of Perugia, Italy. Expert structural designer at the Unity Crisis - Regional Coordination Uccr - Tuscany.



Grazia Tucci [grazia.tucci@unifi.it]

Geomatic for Built Heritage Conservation

tutors: Valentina Banara, Alessandro Conti, Lidia Fiorini, A. Gülec Karumaz.

Her work has always been focused on the disciplines involving measurement and their application to the Built Heritage, thus introducing the concept of "Geomatics for the Conservation of Cultural Heritage" into her working sector. The research activity has been supported by her commitment to create a solid relationship with the Institutional Bodies in charge of protection; thanks to this, she has been able to work on excellent case studies to test methods and techniques for metric data acquisition, processing and management at different scales (Basilica dell'Umiltà in Pistoia, Museo dell'Accademia of Florence, Basilica of the Holy Sepulchre in Jerusalem, plaster model of The Rape of the Sabinians, Baptistery of San Giovanni in Florence). The transfer to teaching of the know-how generated by the above-mentioned experiences is the aim of institutional courses and third-level education. She is the Director of a Postgraduate Course (now in its fifth edition) in Geomatics for Cultural Heritage.

In 2008 she founded the GeCo (Geomatics for Environment and Conservation of Cultural Heritage) Laboratory, which hosts research associates, research fellows, PhD students, visiting researchers, as well as Italian and foreign interns and trainees. The importance she has always given to cooperation led to the establishment of agreements with different Countries (among which Argentina, Syria and Ecuador), of which she is responsible. She is member of the International PhD Board in Processes, Materials and Constructions in Civil and Environmental Engi-

neering and for the Protection of the historic-monumental Heritage. Since 2011 she is in charge of the Department of Civil and Environmental Engineering and the CeCo Lab is a partner of the NEMECH Competence Centre (New Media for Cultural Heritage), co-financed by the Tuscany Region.



Stefania Viti [stefania.viti@unifi.it]

Structural Design

Dr. Stefania Viti obtained her degree in Architecture in 1994 at the University of Florence and her PhD degree in "Structural Engineering" in 2001 at the same University. In the years 2001 and 2002 she worked at the SUNY University of New York at Buffalo, collaborating with Prof. A. Reinhorn. Since 2003 she works as Researcher at the Department of Architecture (DIDA) at the University of Florence, where she carries out didactic and research activities. Her research concerns the non-linear analysis and seismic assessment of existing structures, with special attention to RC buildings, and the evaluation of the seismic performance of irregular structures. Other themes of research concern the developing of new generation retrofitting strategies and the evaluation of structural resilience.



ACADEMICS
PUBLICATIONS

Laura Andreini

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New Guggenheim museum in Florence.

Street view from Via Cavour

Students: G. Benedetti, R. Kane, S. Dehghani
Dowlatabadi.

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New Guggenheim museum in Florence.

Lobby/Entrance view.

Students: G. Benedetti, R. Kane, S. Dehghani
Dowlatabadi.

p.26 top

New Guggenheim museum in Florence. Main facade.

Students: Chrysostomou Athina, Marras Valentina,
Lekou Katerina.

p.26 left

New Guggenheim museum in Florence. 3d diagram.

Students: Ahmadi Parisa, Marchetti Alessandra,
Marcović Jovana.

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New Guggenheim museum in Florence.

Concept.

Students: Dorn Antonia, Guercio Luca, Saule G. Petraityte.

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New Guggenheim museum in Florence.

Students: Benedetti Giulia, Kane Robert, Sanaz Dehghani Dowlatabadi.

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New Guggenheim museum in Florence.

Dorn Antonia, Guercio Luca, Saule G. Petraityte.

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New Guggenheim museum in Florence.

Students: Benedetti Giulia, Kane Robert, Sanaz Dehghani Dowlatabadi.

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Belgrade Waterfront

Students: G. Carpignani, F. Ciampi, E. D'Ascenzi

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The Campagna Urbanizzata 40 years later

Students: L. Antinori, R. Kane, J. Paluca

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Belgrade Waterfront

Students: G. Carpignani, F. Ciampi, E. D'Ascenzi

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La Mulina project in Parco delle Cascine Florence

Students: G. Carpignani, F. Ciampi, E. D'Ascenzi



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