



COURSE DESCRIPTION HISTORY OF ARCHITECTURE 2

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: MENNA GIOVANNI
PHONE:
EMAIL: giovanni.menna@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

No preparatory teaching is required

PREREQUISITES

No prerequisites are required

LEARNING GOALS

The training aims to develop knowledge, understanding, and interpretation of architecture and the city in order to foster critical thinking for design. The course focuses on aspects and issues of architecture from the late 19th to the 20th century.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Knowledge and Understanding: Through theoretical lectures and site visits, students acquire knowledge of the history and theory of architecture and understand their relationship to

architectural design in different times and places. Knowledge and understanding of the history of architecture derives from in-depth analysis of architectural cultures and design processes, and from the study of types, forms, construction systems and techniques, and architectural languages.

Applying knowledge and understanding

Ability to apply knowledge and understanding The student develops critical skills and the ability to recognize the relationships between historical disciplines and architectural design, the reading and survey of historic buildings, and conservation and restoration projects.

COURSE CONTENT/SYLLABUS

Part One: 0 to 6 points

“News from Nowhere”: England (1836–1924). Adler and Sullivan: The Auditorium and Vertical Development (1886–95). From Viollet-le-Duc to Horta to Art Nouveau: General Characteristics and National Interpretations. Architecture and the City: The Mastery of H.P. Berlage and the Lesson of O. Wagner. C.R. Mackintosh and the Glasgow School (1896–1916). Henry van de Velde and the Abstraction of Empathy. F. Lloyd Wright: From the Myth of the Prairie to the “Disappearing City.” The “Sacred Spring”: Wagner, Olbrich, and Hoffmann.

Part Two: 0 to 11 points

A. Sant’Elia and Futurist Architecture. Adolf Loos and the Critique of Ornament. T. Garnier and the “Cité Industrielle” (1899–1918). Auguste Perret: The Evolution of Classical Rationalism. The Deutsche Werkbund and the Teaching of Behrens. The Parabola of the Bauhaus. Expressionist Architecture in Europe (1910–25). The Architecture of ‘De Stijl’: The Evolution and Dissolution of Neoplasticism. Dudok, Oud, Van Eesteren. The New Objectivity: Germany, the Netherlands, and Switzerland. The Russian Avant-Garde and Soviet Rationalism. Italian Rationalism.

Part Three: 0 to 11 points

Six Masters: Le Corbusier, Walter Gropius, Ludwig Mies van der Rohe, Frank Lloyd Wright, Alvar Aalto, Giuseppe Terragni.

Part Four: 0 to 2 points

The vicissitudes of ideology: from CIAM to Team X (1928-68). Articulations of architecture in the second half of the twentieth century, 1946-99

READINGS/BIBLIOGRAPHY

Main Reference Manual:

1) Kenneth Frampton, *History of Modern Architecture*, Zanichelli, Bologna, latest edition: 2022.

Further readings on the key works listed in the syllabus are available in:

2) Marco Biraghi, A. Ferlenga, *Architettura del Ventesimo Secolo* vol. II and vol. III, Einaudi, Turin 2013

Graphic documentation relating to these works is available in:

3) Richard Weston, *Capolavori del Ventesimo secolo. Piante, sezioni, prospetti*. Vol. 1, Logos, Modena 2004

Bibliographical references for any further reading will be provided during the course. Not all chapters from these volumes are included in the exam syllabus: the course topics that will be

discussed with the student during the exam will be listed in detail and provided to each student at the beginning of the course.

TEACHING METHODS OF THE COURSE (OR MODULE)

Frontal lessons and site visits

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☐ Project discussion
- ☐ Other

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

The following scores will be awarded:

0 to 4 points for knowledge of the topics in Part I

0 to 9 points for knowledge of the topics in Part II

0 to 10 points for knowledge of the topics in Part III

0 to 2 points for knowledge of the topics in Part IV

Five points will also be awarded for critical thinking, establishing relationships between topics, and the use of appropriate subject-specific language.



COURSE DESCRIPTION HISTORY OF ARCHITECTURE 2

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: MAGLIO EMMA
PHONE: 081-2538635
EMAIL: emma.maglio@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

Storia dell'Architettura 1

PREREQUISITES

None

LEARNING GOALS

The course aims at providing tools for the knowledge, understanding, and interpretation of languages and protagonists of Italian and international architecture from the 18th century to the second half of the 20th century, with specific thematic insights into the architecture of Naples. A preliminary reminder to the main themes examined in the previous Storia dell'Architettura 1 course will allow to fix aspects of the transition from the modern to the contemporary period, keeping a common thread of the different and multiple "returns" of classic architecture up to present. Buildings and architects will be studied with respect to their own geographical and cultural context, and the relationship between the scale of the building and that of the city will always

be highlighted, to give students awareness of historical architecture that is necessary in every project dealing with existing buildings. An exercise to be carried out during the course, as part of the exam, will enable students to analyse the assigned building in its multiple aspects and to combine study and design aspects.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Students have to prove they know: the different types of sources for the history of architecture; the history and theory of architecture and their relationship with the architectural project during the time; the morphological, typological, constructive, and language aspects of the examined buildings; the specific terminology of the discipline.

Applying knowledge and understanding

Students have to prove they can: correctly and fully analyse the buildings and themes illustrated during the course; possess sufficient critical skills of architectures and authors in their wider cultural context; recognise the connection of architectural history with the disciplines of architectural design, survey, and restoration through the studied architectures and themes.

COURSE CONTENT/SYLLABUS

The course illustrates the history of Italian and international architecture from the 18th to the second half of the 20th century, with specific thematic insights into the architecture of Naples. The course is structured in thematic modules:

- 1) Presentation of the course (program, objectives, and teaching material). The concept of architecture over time and the birth of the history of architecture. Methodologies of the historical analysis of architecture; bibliographic and archival research tools; material, documentary, iconographic, and cartographic sources. Brief summary of the main themes addressed in the course *Storia dell'Architettura* 1.
- 2) Enlightenment Rationalism and Neoclassicism. The theorists of the French Enlightenment, the works of Soufflot, Boullée, and Ledoux. The Enlightenment city, the Parisian model and its diffusion in Europe, theoretical examples and actual plans for the city. The role of Italy and archaeology in neoclassical age; the first accomplished examples of museums; the birth of restoration; Neoclassicism and Palladianism in England; the Picturesque and the Romantic garden; the École Polytechnique and the works of Percier and Fontaine; Napoleonic Italy; Romantic Classicism in Germany.
- 3) The neo-Gothic architecture in France and England. Iron architecture and international exhibitions; historicist Eclecticism and the spread of neo-Renaissance language. The 19th-century city and the birth of urban planning, the industrial revolution and its urban consequences, the bourgeois city, and demolitions and new building activities in the European capitals. The city of Naples and its architecture in the Viceroyal, Bourbon and Napoleonic periods. Architecture and cities in America, the birth of skyscrapers and the Chicago School. Art Nouveau in Europe.
- 4) The architects of Protectoralism: Hoffmann, Perret, Garnier, Loos, and Behrens. Gropius and the Bauhaus. Architecture and city in the work of Le Corbusier. The organic architecture of

Wright and Aalto. The architecture of Mies van der Rohe. Italian Rationalism and Terragni's work. Architecture and cities in Italy and in the world from the second postwar period until today. The city of Naples and the most significant buildings of the 20th century.

5) An exercise will be carried out during the course on an assigned topic and will count towards the exam. At the end of the course, a presentation of the work done will be requested

READINGS/BIBLIOGRAPHY

The teaching material to be studied for the exam consists of:

1) PDF of the lessons, as an essential study guide

2) Two mandatory books:

- D. Watkin, *Storia dell'Architettura occidentale*, Zanichelli, Bologna 2016 or other editions (chapters 8 to 11, only themes, architects and buildings analysed in class)

- K. Frampton, *Storia dell'architettura moderna*, Zanichelli, Bologna 2008 or other editions (part I chapters 1, 2, 3; part II chapters 1, 3, 7, 17, 18, 21, 23, 25, 26).

3) Optional book:

- C. De Seta, *Napoli*, Laterza, Roma-Bari 2004, pp. 209-214, 263-276 (for Naples architecture).

An additional text will be requested at the exam from non-attending students, those who do not achieve attendance and those who do not hand in the exercise or whose work is deemed insufficient. The book is *Storie di case. Abitare l'Italia del boom*, ed. by Filippo de Pieri and others, Rome 2013, p. xi-xxx and essays from no. IX to no. XVI (the book can be found at Palazzo Gravina).

TEACHING METHODS OF THE COURSE (OR MODULE)

The course attendance is mandatory (attendance is 60% of the lessons, i.e. a maximum of 14 total absences) and takes place through frontal lectures, with the support of powerpoint presentations and other multimedia material which will be available on the course Teams group.

An exercise will be carried out during the course hours on an assigned topic, for which students will deliver a powerpoint presentation on their work at the end of the course. The exercise is an integral part of the programme and contributes to the final assessment [passed - partially passed (final mark reduced by 2 points) - failed].

Students who are unable to attend the course for proven reasons are asked to contact the lecturer: they will be given an additional text to bring to the examination in addition to the syllabus. The same applies to students who will not have reached attendance at the end of the course and those who will not hand in their exercise or whose work will be deemed insufficient.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

☐

Written

☒

Oral

☐

Project discussion

☐

Other

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

The exam takes place orally and consists of two to three questions on the syllabus and the presentation of the exercise carried out during the course. A further question will be asked about the mandatory additional text in the cases provided for.



COURSE DESCRIPTION CONSTRUCTION SCIENCE

SSD: SCIENZA DELLE COSTRUZIONI (ICAR/08)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: DE GREGORIO DANIELA
PHONE:
EMAIL: daniela.degregorio@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

"ARCHITECTURAL DESIGN FUNDAMENTALS STUDIO" with module of "STRUCTURAL MECHANICS AND MODELLING"

PREREQUISITES

The disciplinary prerequisites necessary for understanding the course contents are the following theoretical and methodological knowledge:

- Basic mathematical knowledge (analysis, linear algebra);
- Elements of differential and integral calculus;
- Fundamentals of kinematics of rigid systems;
- Fundamentals of statics of rigid systems.

LEARNING GOALS

The course in **Structural Mechanics** aims to provide students with the fundamental principles that, once properly acquired and applied, allow them to model and solve elastic structures,

introducing the concepts of deformability.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

- Acquisition of the essential knowledge for the design and verification of structures, to be further developed in the subsequent course of Structural Engineering.
- Acquisition of mechanics of materials and structures necessary for understanding and analyzing complex structural behaviors.
- Development of the ability to solve elastic structures (calculation of support reactions, internal forces, and displacements).

Applying knowledge and understanding

The course provides students with the ability to apply theoretical and methodological knowledge related to the structural aspects of architectural design and to produce design outputs at different levels of detail, across different scales, and in various fields of application.

COURSE CONTENT/SYLLABUS

- Strain analysis (0.5 ECTS)
- Stress analysis (0.5 ECTS)
- Elastic relationships (0.5 ECTS)
- Elastic equilibrium (0.5 ECTS)
- Strength criteria of materials (0.5 ECTS)
- Mass geometry (0.5 ECTS)
- Resolution of elastic structures (1 ECTS)
- De Saint Venant's problems (Normal stress, Pure bending, Oblique bending, Eccentric compression, Shear, Torsion) (4 ECTS)

READINGS/BIBLIOGRAPHY

- Lecture notes
- V. Franciosi, *Fondamenti di Scienza delle Costruzioni*, Vol. 1 –*Theory of Elasticity*, Liguori Editore, Naples, 1983
- V. Franciosi, *Fondamenti di Scienza delle Costruzioni*, Vol. 2 –*Theory of Beams*, Liguori Editore, Naples, 1983
- V. Franciosi, *Fondamenti di Scienza delle Costruzioni*, Vol. 3, Liguori Editore, Naples, 1983

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is delivered through lectures.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

☒ Written

☒ Oral

☐ Project discussion

☐ Other

In case of a written exam, questions refer to

☐ Multiple choice answers

☐ Open answers

☒ Numerical exercises

b) Evaluation pattern

The assessment will take into account the degree of knowledge, comprehension, and depth of understanding of the topics covered.



COURSE DESCRIPTION CONSTRUCTION SCIENCE

SSD: SCIENZA DELLE COSTRUZIONI (ICAR/08)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: SESSA SALVATORE
PHONE: 081-7683723 - 081-7683334
EMAIL: salvatore.sessa2@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

Calculus - Geometry
Mechanics and modelling of structures

PREREQUISITES

knowledge acquired in the Calculus/Geometry course. Kinematics and statics of rigid systems.

LEARNING GOALS

The objective of the course is to introduce the subject of structural analysis.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must show an understanding of basic concepts such as displacement and rotation, force and moment, know how to manipulate simple physical-mathematical relationships, and understand their connection to reality. 1

Applying knowledge and understanding

The student must show that he or she is able to draw the "practical" consequences, in terms of simple applications, of the set of theoretical notions acquired; he or she must be able to solve simple structures.

COURSE CONTENT/SYLLABUS

Elements of Geometry of areas

Moments of first and second order. Center of gravity definition. Directions and main moments of inertia. Applications to simple sections.

Elements of the elastic solid mechanics

Fundamentals of analysis of stress and strain. Mechanical behavior of main materials of constructions.

Elements of Beam theory

Normal stress. Bending and shear. Study of the structural models. Linear structures: general principles. Principle of Virtual Work. The displacement method. The method of forces. stiffness and deformability matrices of structural elements. Assembly of matrices. Matrices of stiffness and deformability. Release conditions. Trusses. Framed structures.

Applications

Determination of displacements in isostatic beams through: equation of the elastic line; congruence equations; Mohr corollaries; principle of superposition of the effects; and method of the displacements composition. Resolution of hyperstatic structures by: equation of the elastic line; and congruence equations. Determination of displacements in hyperstatic beams through: the compatibility conditions and the construction of the stiffness matrices

READINGS/BIBLIOGRAPHY

L. Anand, S. Govindjee. Continuum mechanics of solids. Oxford University Press. 2020 (in English)

P. Casini, M. Vasta. Scienza delle Costruzioni (3° edizione). CittàStudi edizioni, Novara. 2016 (Edizione digitale su <https://www.pandoracampus.it/help>)

F. Dell'Isola, L. Placidi. Esercizi di statica dei sistemi meccanici e scienza delle costruzioni. Soc. Ed. Esclulapio. 2022

Course folder in Microsoft Teams

TEACHING METHODS OF THE COURSE (OR MODULE)

Classroom lectures and excercises.

Possible laboratory visits.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

☒ Written

- ☒ Oral
- ☐ Project discussion
- ☒ Other : Optional midterm examinations.

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☒ Numerical exercises

b) Evaluation pattern

Weighted average of exercises' grade and of the oral discussion.



COURSE DESCRIPTION **ARCHITECTURAL SURVEY AND DIGITAL DRAWING**

SSD: DISEGNO (ICAR/17)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2024/2025

COURSE DESCRIPTION

TEACHER: CAMPI MASSIMILIANO
PHONE: 081-2538670 - 081-2538754
EMAIL: massimiliano.campi@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

Exam "Disegno" passed and recorded.

PREREQUISITES

Knowledge and use of techniques and methods of drawing and representation for architecture (2D and 3D).

LEARNING GOALS

The course intends to provide students with the knowledge and methodological tools necessary to survey and document an architecture in its complexity. The objectives are to provide students the fundamental notions in order to be able to deal with the analysis of an architectural system, illustrate the theoretical principles of architectural survey and lead students to learn the processes of direct and indirect, photogrammetric and digital 3D measurement aimed to knowledge and representation of the built environment, to its meanings and its intrinsic values.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The expected learning outcomes are: being able to critically read an architecture; be able to adequately formulate a survey project, contemplating the use of the most appropriate methods in relation to the context, the object of study and the purposes of the survey; know the survey tools and methods from the traditional ones to the most recent evolutions related to the use of new technologies; knowing how to appropriately represent the results of a survey, documenting the meanings of architecture in appropriately themed written and visual/numerical documents, contemplating the quantitative and qualitative data.

In particular, students must demonstrate that they understand the meanings of architecture, as well as the problems and implications relating to the various survey methods, starting from traditional acquisition methods up to the latest generation ones.

Applying knowledge and understanding

Students must demonstrate that they are able to practically carry out metric, photogrammetric, instrumental and perceptive survey operations, as well as develop thematic surveys and produce written and visual/numerical documents capable of returning the quantitative and qualitative values of architecture. The training course is aimed at transmitting the operational skills necessary to concretely apply the knowledge and to foster the ability to make full use of the methodological tools.

FURTHER EXPECTED LEARNING OUTCOMES, relating to:

- judgment independence: the student must be able to know how to set up a survey project, autonomously evaluating the most appropriate acquisition methodologies and methods of representation and proposing solutions consistent with the object of study and the specificities related to it ;
- communication skills: the student must be able to present the results of the survey and summarize the results achieved in a complete but concise manner using the technical language correctly. The student is stimulated to elaborate a survey project with clarity and rigor and to deepen the methods studied, to familiarize himself with the terms of the discipline, to express the contents and the application possibilities with correctness and simplicity;
- learning ability: students must be able to update and expand their knowledge by independently drawing on texts, scientific articles, starting from the content of the lessons and from the texts suggested during them.

COURSE CONTENT/SYLLABUS

The course proposes an analytical method of investigation, intended as a system of rules consistent with the object being investigated which allows to derive the meanings of reality through the metric and qualitative analysis of architecture, with the aim of making explicit, in the representation, the logical articulation, the formal and constructive structure, going back to the matrixes of its compositional, technical, qualitative, material, metric and geometric results. This will be possible through the adoption of integrated procedures which, starting from the visual survey,

created through sketches and schematic graphic models, experiment the different methods of survey, from the direct one carried out through the use of traditional tools, to the indirect one which makes use of new technologies.

Subjects

Fundamentals of the discipline, finalities of survey, scales of survey.

Reading architecture: parts and elements, layout geometries.

Measurement: elements of metrology, error and uncertainty in surveying.

Cartographic references: historical cartography and current cartography.

Photography in survey.

Survey and representation of the vaults.

Direct survey: methods and tools for direct planimetric and direct altimetric survey.

Photogrammetric survey: terrestrial and aerial photogrammetry, methods for photographic shooting and data processing.

3D digital survey: laser scanner survey

Indirect survey: methods and tools for indirect survey.

GPS survey.

Themes: materials survey, chromatic survey, structural survey, masonry survey, degradation survey, diagnostic survey.

READINGS/BIBLIOGRAPHY

The teaching material will be provided during the lessons with online references and with the most recent articles relating to researches in the field of surveying.

Reference text:

M. DOCCI, D. MAESTRI, Manuale di rilevamento architettonico, Laterza, Roma-Bari, 2004

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is divided into theoretical lessons, practical exercises relating to the topics covered, site inspections for the metric and photographic survey and meetings for the revisions of the graphic drawings illustrating the assigned building and the survey methods and procedures adopted. The work can be done individually, or in groups freely organized by the students and made up of two or at most three members.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

☐

Written

☒

Oral

☒

Project discussion

☒

Other : During the year of teaching there is the probability of tests whose results could affect learning evaluation.

In case of a written exam, questions refer to

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Multiple choice answers

- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

The final exam consists of an oral test on the topics covered, in the evaluation of the graphic works relating to the exercises carried out during the course and in the evaluation of the drawings drawn up as a survey and representation application work.

In the exam, the following will be evaluated: the completeness and accuracy of the contents, the mastery of the concepts and the clarity of the presentation, the correctness of the graphic drawings and the ability to know how to adequately illustrate them in relation to the relevant procedures adopted.



COURSE DESCRIPTION ARCHITECTURAL SURVEY AND DIGITAL DRAWING

SSD: DISEGNO (ICAR/17)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: DI LUGGO ANTONELLA
PHONE: 081-2538753
EMAIL: antonella.diluggo@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

Architectural drawing Laboratory

PREREQUISITES

Knowledge and use of techniques and methods of representation.

LEARNING GOALS

The course intends to provide students with the knowledge and methodological tools necessary to survey and document an architecture in its complexity. The objectives are to provide students the fundamental notions in order to be able to deal with the analysis of an architectural system, illustrate the theoretical principles of architectural survey and lead students to learn the processes of direct and indirect, photogrammetric and digital 3D measurement aimed to knowledge and representation of the built environment, to its meanings and its intrinsic values.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The expected learning outcomes are: being able to critically read an architecture; be able to adequately formulate a survey project, contemplating the use of the most appropriate methods in relation to the context, the object of study and the purposes of the survey; know the survey tools and methods from the traditional ones to the most recent evolutions related to the use of new technologies; knowing how to appropriately represent the results of a survey, documenting the meanings of architecture in appropriately themed written and visual/numerical documents, contemplating the quantitative and qualitative data.

In particular, students must demonstrate that they understand the meanings of architecture, as well as the problems and implications relating to the various survey methods, starting from traditional acquisition methods up to the latest generation ones.

Applying knowledge and understanding

Students must demonstrate that they are able to practically carry out metric, photogrammetric, instrumental and perceptive survey operations, as well as develop thematic surveys and produce written and visual/numerical documents capable of returning the quantitative and qualitative values of architecture. The training course is aimed at transmitting the operational skills necessary to concretely apply the knowledge and to foster the ability to make full use of the methodological tools.

FURTHER EXPECTED LEARNING OUTCOMES, relating to:

- judgment independence: the student must be able to know how to set up a survey project, autonomously evaluating the most appropriate acquisition methodologies and methods of representation and proposing solutions consistent with the object of study and the specificities related to it ;
- communication skills: the student must be able to present the results of the survey and summarize the results achieved in a complete but concise manner using the technical language correctly. The student is stimulated to elaborate a survey project with clarity and rigor and to deepen the methods studied, to familiarize himself with the terms of the discipline, to express the contents and the application possibilities with correctness and simplicity;
- learning ability: students must be able to update and expand their knowledge by independently drawing on texts, scientific articles, starting from the content of the lessons and from the texts suggested during them.

COURSE CONTENT/SYLLABUS

The course proposes an analytical method of investigation, intended as a system of rules consistent with the object being investigated which allows to derive the meanings of reality through the metric and qualitative analysis of architecture, with the aim of making explicit, in the representation, the logical articulation, the formal and constructive structure, going back to the matrixes of its compositional, technical, qualitative, material, metric and geometric results. This will be possible through the adoption of integrated procedures which, starting from the visual survey, created through sketches and schematic graphic models, experiment the different methods of

survey, from the direct one carried out through the use of traditional tools, to the indirect one which makes use of new technologies.

Subjects

Fundamentals of the discipline, finalities of survey, scales of survey.

Reading architecture: parts and elements, layout geometries.

Measurement: elements of metrology, error and uncertainty in surveying.

Cartographic references: historical cartography and current cartography.

Photography in survey.

Survey and representation of the vaults.

Direct survey: methods and tools for direct planimetric and direct altimetric survey.

Photogrammetric survey: terrestrial and aerial photogrammetry, methods for photographic shooting and data processing.

3D digital survey: laser scanner survey

Indirect survey: methods and tools for indirect survey.

3D Modelling

Themes: materials survey, chromatic survey, structural survey, masonry survey, degradation survey, diagnostic survey.

READINGS/BIBLIOGRAPHY

The teaching material will be provided during the lessons with online references to the most recent articles relating to researches in the field of surveying.

Reference text:

M. DOCCI, D. MAESTRI, *Manuale di rilevamento architettonico*, Laterza, Roma-Bari, 2004

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is divided into theoretical lessons, practical exercises relating to the topics covered, site inspections for the metric and photographic survey and meetings for the revisions of the graphic drawings illustrating the assigned building and the survey methods and procedures adopted. The work can be done individually, or in groups freely organized by the students and made up of two or at most three members.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☒ Project discussion
- ☐ Other

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers

b) Evaluation pattern

The final exam consists of an oral test on the topics covered, in the evaluation of the graphic works relating to the exercises carried out during the course and in the evaluation of the drawings drawn up as a survey and representation application work.

In the exam, the following will be evaluated: the completeness and accuracy of the contents, the mastery of the concepts and the clarity of the presentation, the correctness of the graphic drawings and the ability to know how to adequately illustrate them in relation to the relevant procedures adopted.



COURSE DESCRIPTION ARCHITECTURAL SURVEY AND DIGITAL DRAWING

SSD: DISEGNO (ICAR/17)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: CERA VALERIA
PHONE: 081-2534564
EMAIL: valeria.cera@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 03 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

Architectural Drawing.

PREREQUISITES

Knowledge and use of techniques and methods of representation.

LEARNING GOALS

The course intends to provide students with the knowledge and methodological tools necessary to survey and document an architecture in its complexity. The objectives are to provide students the fundamental notions in order to be able to deal with the analysis of an architectural system, illustrate the theoretical principles of architectural survey and lead students to learn the processes of direct and indirect, photogrammetric and digital 3D measurement aimed to knowledge and representation of the built environment, to its meanings and its intrinsic values.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The expected learning outcomes are:

- being able to critically read an architecture;
- be able to adequately formulate a survey project, contemplating the use of the most appropriate methods in relation to the context, the object of study and the purposes of the survey;
- know the survey tools and methods from the traditional ones to the most recent evolutions related to the use of new technologies;
- knowing how to appropriately represent the results of a survey, documenting the meanings of architecture in appropriately themed written and visual/numerical documents, contemplating the quantitative and qualitative data.

In particular, students must demonstrate that they understand the meanings of architecture, as well as the problems and implications relating to the various survey methods, starting from traditional acquisition methods up to the latest generation ones.

Applying knowledge and understanding

Students must demonstrate that they are able to practically carry out metric, photogrammetric, instrumental and perceptive survey operations, as well as develop thematic surveys and produce written and visual/numerical documents capable of returning the quantitative and qualitative values of architecture.

The training course is aimed at transmitting the operational skills necessary to concretely apply the knowledge and to foster the ability to make full use of the methodological tools.

Further expected learning outcomes, relating to:

- **judgment independence:** the student must be able to know how to set up a survey project, autonomously evaluating the most appropriate acquisition methodologies and methods of representation and proposing solutions consistent with the object of study and the specificities related to it;
- **communication skills:** the student must be able to present the results of the survey and summarize the results achieved in a complete but concise manner using the technical language correctly. The student is stimulated to elaborate a survey project with clarity and rigor and to deepen the methods studied, to familiarize himself with the terms of the discipline, to express the contents and the application possibilities with correctness and simplicity;
- **learning ability:** students must be able to update and expand their knowledge by independently drawing on texts, scientific articles, starting from the content of the lessons and from the texts suggested during them.

COURSE CONTENT/SYLLABUS

The course proposes an analytical method of investigation, intended as a system of rules consistent with the object being investigated which allows to derive the meanings of reality through the metric and qualitative analysis of architecture, with the aim of making explicit, in the representation, the logical articulation, the formal and constructive structure, going back to

the matrixes of its compositional, technical, qualitative, material, metric and geometric results. This will be possible through the adoption of integrated procedures which, starting from the visual survey, created through sketches and schematic graphic models, experiment the different methods of survey, from the direct one carried out through the use of traditional tools, to the indirect one which makes use of new technologies.

Subjects

Fundamentals of the discipline, finalities of survey, scales of survey.

Reading architecture: semantic analysis, parts and elements, layout geometries.

Measurement: elements of metrology, error and uncertainty in surveying.

Cartographic references: historical cartography and current cartography.

Photography in survey.

Survey and representation of the vaults.

Direct survey: methods and tools for direct planimetric and altimetric survey.

Image-based survey: terrestrial, aerial and underwater photogrammetry, methods for photographic shooting and data processing.

Range-based survey: laser scanner survey, also in dynamic mode.

Indirect survey: methods and tools for indirect survey.

3D Modelling, nurbs and parametric process.

Themes: materials survey, chromatic survey, structural survey, masonry survey, degradation survey, diagnostic survey.

READINGS/BIBLIOGRAPHY

The teaching material will be provided during the lessons with online references and with the most recent articles relating to researches in the field of surveying.

Reference text:

M. DOCCI, D. MAESTRI, *Manuale di rilevamento architettonico*, Laterza, Roma-Bari, 2020.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is divided into theoretical lessons, practical exercises relating to the topics covered, site inspections for the metric and photographic survey and meetings for the revisions of the graphic drawings illustrating the assigned building and the survey methods and procedures adopted. The work can be done individually, or in groups freely organized by the students and made up of two or at most three members.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☒ Project discussion
- ☒ Other : Some intermediate tests - also in terms of graphic layouts prepared for the year's theme with a set deadline - may be scheduled and carried out during the course. Adherence to the deadlines and the results of the tests will be taken into account in the assessment and evaluation of learning.

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☒ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

The final exam consists of an oral test on the topics covered, in the evaluation of the graphic works relating to the exercises carried out during the course and in the evaluation of the drawings drawn up as a survey and representation application work.

In the exam, the following will be evaluated: the completeness and accuracy of the contents, the mastery of the concepts and the clarity of the presentation, the correctness of the graphic drawings and the ability to know how to adequately illustrate them in relation to the relevant procedures adopted.



COURSE DESCRIPTION LABORATORY OF INTERIOR ARCHITECTURE

SSD: ARCHITETTURA DEGLI INTERNI E ALLESTIMENTO (ICAR/16)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: CAFIERO GIOCONDA
PHONE: 081-2538959
EMAIL: gioconda.cafiero@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

Nothing

PREREQUISITES

Ability to read and represent an architectural space

LEARNING GOALS

The course's aim is to educate students in understanding the architectural phenomenon, the reasons behind its creation, and the ways in which it can meet human needs and give shape to their desires and aspirations. The interior is the place where life unfolds, the stage where the culture of its time communicates its meaning. This is why the course intends to investigate architecture starting from its interiors, not for disciplinary purposes, but for a broader understanding of it.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The course addresses the culture of living and the architectural interior. Students will be able to identify the connections between tectonic and formal structure, spatial quality and furnishings, through the study of the aesthetic measure of spatiality in recurring typologies and spatial conformations of experience, using the categories necessary for the definition and analysis of performance, distribution, dimensional, and tectonic issues. Students will be able to recognize the main parameters that define the architectural interior in history and contemporary times, in order to develop a methodological criterion for the interpretation and subsequently for the propositional hypothesis of interior space in architectural design, with particular attention to the generative role of living space and with greater in-depth exploration at the detail level.

Applying knowledge and understanding

The student must be able to design a space with specific reference to both the definition of the architectural elements and the furnishings needed to meet the required functions, thus verifying in detail both the sizing, the aggregation and distribution criteria, and the connections between the organization of the interior spaces and the overall conformation of an architectural organism, from the volumetric level to the design of the facades.

The student must be able to correctly represent an architectural interior, including details and furnishings. They must be able to graphically communicate a space, both in terms of the overall nature of the envisioned environment and the technical and construction aspects of the components. They must also be able to describe the connections in terms of meaning linking the interior design to the conception of an architectural structure.

COURSE CONTENT/SYLLABUS

The content differs from the core of the topics pertaining to the field of architectural design, as it refers to themes that have a particular autonomy in terms of method and tools, while also implying interactions with various other sectors.

They concern theoretical aspects of architecture focused on the relationships between usable spaces, objects, images, people, and applied aspects related to the design issues specific to interior architecture and furnishings. The course content relates to the study of the relationship between "space," "furniture," and the "human body."

- Position and role of furniture in architectural design; Centrality of man in interior design; Concept of hermeneutic circularity in the various phases of the project.
- The enclosure and the archetypal notion of interior. Forms and meanings. Limit and Margin. Ideal Form and Real Form. Complication of Form. Labyrinth, Measure and Distance
- Centrality of the Interior as the Primary Genesis of the Project . Project that Expands from the Inside Out. Object/Phenomenon Relationship. Construction of the Quality of the Enclosed Void. Sense of the Fragment in Relation to the Whole

- The Path: Traversing Space and Perceiving Places. Fruitive Paths and Visual Paths. Visual Angles. Movement and Stasis, Participation and Contemplation.
- Anthropometry of Interior Space. Difference Between Measure and Proportion. Perception of Interior Space. Coenesthesia and Biological Plasticity. Geometric Form and Perceived Form.
- A House by Summation or Integration of Spatial Units. The Functional Specialization of Spaces and Furnishings.
- Flexibility and Diachronic Use of Spaces. Margins and Movable Furnishings. Memory of Forms and Memory of Behaviors.
- Environment and Scope. Interpenetration of Spaces. The Free Plan. The Role of Furnishings in Defining Space. Formal Innovation and Technological Innovation.
- Light and Color. Natural Light: Modeled Light Effects. Artificial Light: Constructed Light Effects. Object Color and Air Color.

READINGS/BIBLIOGRAPHY

Teaching materials: books, articles, web links, graphics, and models for further exploration of the topics and examples covered in the theoretical part. Lectures will be documented with specific bibliographical references.

Additional bibliographical references will be provided to students in close connection with the topic covered in the project exercise.

TEACHING METHODS OF THE COURSE (OR MODULE)

The studio is structured through lectures, guided exercises involving redesign, modeling, discussion, and comparison of case studies for the final development of a project. The various topics covered in the theoretical part are validated in the practical part.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☒ Project discussion
- ☐ Other

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

The assessment will be developed throughout the entire workshop, including through specific exercises, coordinated with the instructor. The final exam will consist of a critical discussion of the analysis and

design papers produced, in order to explore their methodological criteria, theoretical implications, and proposed outcomes. This will assess the student's ability to place sensitivity and knowledge of the layout of interior spaces at the basis of the architectural project.



COURSE DESCRIPTION LABORATORY OF INTERIOR ARCHITECTURE

SSD: ARCHITETTURA DEGLI INTERNI E ALLESTIMENTO (ICAR/16)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: SAITTO VIVIANA
PHONE: 081-2538849
EMAIL: viviana.saitto@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

Nothing.

PREREQUISITES

Ability in technical drawing.

LEARNING GOALS

The course aims to educate students to understand the architectural phenomenon, the reasons for which it is put into being, the ways in which it is, in general, to satisfy man's needs and to give shape to his desires and his aspirations. The interior is the place where life takes place, it is the scene where the culture of one's time manages to communicate its contents, and it is for this reason that the course intends to investigate architecture starting from its interiors, not for a delimitation of disciplinary, but for a broader understanding of the same.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The course explores the theme of living culture and the architectural interior. The student must be able to identify the links that link the tectonic structure and the formal structure, the spatial quality and the furniture, through the study of the aesthetic measure of spatiality in the recurring typologies and spatial conformations of the experience, through the categories necessary for the definition and analysis of performance, distribution, dimensional, tectonic problems. The student will have to recognize the main parameters that define the architectural interior in history and in the contemporary world, to build a methodological criterion for reading and subsequently for the proactive hypothesis of the interior space in the architectural project, with particular attention to the generative role of the living space and with greater insights into the scale of detail.

Applying knowledge and understanding

The student must be able to design a space with punctual reference both to the definition of the architectural terminals and to the furnishings necessary to respond to the required functions, thus verifying in detail both the sizing and the aggregation and distribution criteria, as well as the links between the organization of the internal spaces and the overall conformation of an architectural organism, on the volumetric level up to the design of the facades. The student must be able to correctly represent an architectural interior, including details and furnishings. You must be able to communicate a space graphically, both the globality of the prefigured environment and the technical and constructional aspects of the components. You must also be able to describe the connections in terms of meaning that link the interior design to the conception of an architecture.

COURSE CONTENT/SYLLABUS

The course will be divided into two different phases. The first, of knowledge and analysis, will be characterised by frontal lectures followed by exercises to explore the topics proposed. The second will be dedicated to the production of a project, a synthesis of what has been learnt in the first phase.

- PHASE I | Theory and analysis

1. Interior design: definition, meaning, field of application.
2. Primary space: the human measure as a space of recollection, the primary space, the space of gesture.
3. Domestic space: horizontal margins, vertical margins.
4. Equipment and macro-objects.
5. On the interior/exterior relationship.
6. Specific lessons on case studies useful for the final project.

- II PHASE | Project

1. Elaboration of the final project.
2. Elaboration of the graphic design drawings.
3. Elaboration of the final models.

READINGS/BIBLIOGRAPHY

The teaching material provided during the course will be organised in:

- **Basic material:** basic surveys;
- **Layout and coordinated graphics:** work files, layouts for presentations and final project;
- **Bibliographic material:** basic essays, useful for framing the cultural foundations of the teaching area and reference bibliography

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is structured through lectures, guided exercises with redesign, modeling, discussion and comparison of case studies for the final elaboration of a project. The various topics covered in the theoretical part are verified in the application part.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☒ Project discussion
- ☐ Other

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

The construction of the evaluation will develop over the entire course, also through specific exercises, agreed with the responsible teacher. The final test will consist of the critical discussion of the analysis and project documents, produced to examine methodological criteria, theoretical implications and propositional outcomes, to verify the acquired ability to place the sensitivity and knowledge at the basis of the architectural project related to the conformation of an internal space.



COURSE DESCRIPTION LABORATORY OF INTERIOR ARCHITECTURE

SSD: ARCHITETTURA DEGLI INTERNI E ALLESTIMENTO (ICAR/16)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: IARRUSSO FRANCESCA
PHONE:
EMAIL: francesca.iarrusso@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 03 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

Prerequisites on entry: None

Prerequisites on exit: Atelier di fine corso (DC CEAR09/C)

PREREQUISITES

Ability to read and represent an architectural space

LEARNING GOALS

The aim of the course is to educate students in the understanding of the architectural phenomenon, the reasons why it is set in place, the ways in which it is able to meet human needs and give form to desires and aspirations. The interior is the place where life takes place; it is the stage where the culture of one's time communicates its content. For this reason, the course intends to investigate architecture starting from its interiors, not as a disciplinary restriction but as a broader understanding of architecture itself.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The course addresses the theme of the culture of dwelling and the architectural interior. Students will be able to identify the links between tectonic structure and formal structure, spatial quality and furniture, through the study of the aesthetic measure of spatiality in recurring typologies and lived spatial conformations, and through the categories necessary for the definition and analysis of performance, distributional, dimensional, and tectonic problems.

Students will recognize the main parameters defining the architectural interior in history and in contemporary times, in order to develop a methodological criterion for reading and subsequently for proposing hypotheses of the interior space in architectural design, with particular attention to the generative role of the space of dwelling and with deeper focus on the scale of detail.

Applying knowledge and understanding

Students will be able to design a space with precise reference to both the definition of architectural terminals and the furnishings necessary to meet functional requirements, verifying in detail the dimensions, aggregation and distribution criteria, and the links between the organization of interior spaces and the overall conformation of the architectural organism, from the volumetric level to the design of façades.

Students will be able to correctly represent an architectural interior, including details and furnishings. They will be able to graphically communicate a space both in terms of the overall prefigured environment and the technical and constructive aspects of the components. They will also be able to describe the semantic links connecting interior design with the conception of architecture.

COURSE CONTENT/SYLLABUS

The contents concern theoretical aspects of architecture focused on the relations between usable spaces, objects, images, people, and applied aspects related to specific design issues of interior architecture and furniture. The course contents deal with the study of the relationship between **“space”**, **“furniture”**, and the **“human body.”**

- Position and role of furniture in architectural design. Centrality of man in interior design. The concept of hermeneutic circularity in the various phases of design.
- The enclosure and the archetypical notion of interior. Forms and meanings. Limit and margin. Ideal form and real form. Complication of form. Labyrinth, measure, and distance.
- Centrality of the interior as the primary place of project genesis. The project expanding from the interior to the exterior. Object/phenomenon relationship. Construction of the quality of enclosed void. The sense of the fragment in relation to the whole.
- The path. Crossing space and perceiving places. Functional and visual paths. Visual angles. Movement and stasis, participation and contemplation.
- Anthropometry of interior space. Difference between measure and proportion. Perception of interior space. Cenesthesia and biological plasticity. Geometric form and perceived form.

- House as summation or integration of spatial units. Functional specialization of spaces and furnishings.
- Flexibility and diachronic use of spaces. Margins and movable furnishings.
- Memory of forms and memory of behaviors.
- Environment and context. Interpenetration of spaces. The open plan. The role of furniture in defining space. Formal and technological innovation.
- Light and color. Natural light: modeled luminous effects. Artificial light: constructed luminous effects. Object color and areal color.

READINGS/BIBLIOGRAPHY

Books, articles, web references, drawings and models for in-depth study of the topics and examples presented in lectures. Lectures will be documented with specific bibliographic references. Further bibliographic references will be provided to students in close connection with the design exercise topic.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is structured through lectures, guided exercises including redrawing, modeling, discussion, and comparison of case studies for the final elaboration of a project. The different topics covered in the theoretical part will be verified in the applied part.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☒ Project discussion
- ☐ Other

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

The evaluation will be developed throughout the course, also through specific exercises agreed upon with the course lecturer. The final examination will consist of the critical discussion of analytical and design work, in order to highlight methodological criteria, theoretical implications, and design outcomes, verifying the acquired ability to base architectural design on the sensitivity and knowledge related to the conformation of interior spaces.



COURSE DESCRIPTION TECHNOLOGICAL DESIGN OF ARCHITECTURE WORKSHOP

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: FABBRICATTI KATIA
PHONE:
EMAIL: katia.fabbricatti@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES

TECHNOLOGICAL CULTURE FOR HABITAT DESIGN

PREREQUISITES

NO

LEARNING GOALS

In line with the objectives of the course of study and with the training acquired in the previous year in the field of Architectural Technological and Environmental Design of Architecture, the goal of teaching is to enable the student to:

- a) understand criteria, methods and tools of technological design in the development of the project in relation to the demanding framework and the socio-cultural, technical-productive and environmental context;
- b) use basic methodological tools necessary for systemic monitoring of project complexity levels;

- c) design within a framework of sustainable development and with knowledge and design approaches for innovation, experimentation and recovery;
- d) use the main methodologies relevant to the evolution of housing and construction culture in relation to settlement systems;
- e) produce graphical and descriptive documents with clarity and rigor.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student should gain: knowledge and ability to understand criteria, methods and tools of the technological design, as well as to know the problems related to the design and technical-constructive choices in relation to the demanding framework, and the socio-cultural, technical-productive and environmental context. The educational path aims to provide students with the basic knowledge and methodological tools necessary for systemic control of the levels of complexity of the project.

Applying knowledge and understanding

Students must be able to design within a framework of sustainable development and with knowledge and design approaches aimed at innovation and experimentation, with reference to emerging aspects of environmental and digital culture, as well as maintenance and retraining culture. The training course is geared towards transmitting the operational skills necessary to apply in practice the knowledge, methodologies, strategies and solutions for living through the control of the different scales and levels of project.

COURSE CONTENT/SYLLABUS

The teaching program includes the discussion of the following topics:

- Systemic and performance-based approach** in technological design of architecture
- The design process for the built environment:** phases, actors, tools, and strategies
- Evolution of user requirements** and new demands on settlement systems
- Technological innovation** in processes, design, and products
- Values and constraints** in the design of the built environment
- Methods and tools** governing the relationship between design, construction, and building management
- Design choices and evaluation of alternatives** with reference to life cycle, adaptability, and maintainability of building systems.

READINGS/BIBLIOGRAPHY

- AA.VV. (2001), Dizionario degli elementi costruttivi, UTET, Torino.
- Campioli A., Lavagna M. (2013), Tecniche e architettura, CittàStudi.
- Viola S., Zain U. A. (2021), Cultural and creative industries. Technological innovation for the built environment, La Scuola di Pitagora, Napoli.
- Gasparoli P., Talamo C. (2006), Manutenzione e Recupero. Criteri, metodi e strategie per l'intervento sul costruito, Alinea, Firenze; selezione di capitoli.

Viola S., Diano D. (2019), Repurposing the Built Environment: Emerging Challenges and Key Entry Points for Future Research, Sustainability, 11(17), 46-69;
<https://doi.org/10.3390/su11174669>.

During the course of the lectures, references for each topic covered and in-depth bibliographical references will be provided in detail.

TEACHING METHODS OF THE COURSE (OR MODULE)

Educational modules organized in front-line lessons, interactive teaching forms, seminars.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☒ Project discussion

- ☒ Other : The examination is aimed at verifying the achievement of the results obtained, through an interview on the design works developed in the classroom, recalling the topics covered in the theoretical lectures. The assessment will be aimed at verifying the acquisition and testing, through a case study exercise, of methods and tools of Technological Design to ensure the feasibility of the architectural project.

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

Evaluation will be based on the oral interview and presentation of the graphic work.

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COURSE DESCRIPTION TECHNOLOGICAL DESIGN OF ARCHITECTURE WORKSHOP

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: CLAUDI DE SAINT MIHIEL ALESSANDRO
PHONE: 081-2538731
EMAIL: alessandro.claudidesaintmihiel@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES

Cultura Tecnologica per il Progetto dell'habitat

PREREQUISITES

Nessuno

LEARNING GOALS

In line with the educational project of the Degree Course and with the training gained in the previous year in the disciplinary area of Architecture Technology, the teaching objective is to allow the student to: a) understand criteria, methods and tools of technological design in the development of the project in relation to the demanding framework and the socio-cultural, technical-productive and environmental context; b) use basic methodological tools necessary for systemic monitoring of project complexity levels; c) design within a framework of sustainable development and with knowledge and design approaches for innovation, experimentation and

recovery; d) use the main methodologies relevant to the evolution of housing and construction culture in relation to settlement systems; e) produce graphical and descriptive documents with clarity and rigor

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Knowledge and understanding

The student, in the development of the project, is guided to understand criteria, methods and tools of the technological design, as well as to know the problems related to the design and technical constructive

choices in relation to the demanding framework, and the socio-cultural, technical productive and environmental context. The educational path aims to provide students with the basic knowledge and methodological tools necessary for systemic control of the levels of complexity of the project.

Applying knowledge and understanding

Applying knowledge and understanding

Students must be able to design within a framework of sustainable development and with knowledge and design approaches aimed at innovation and experimentation, with reference to emerging aspects of environmental and digital culture, as well as maintenance and retraining culture. The training course is geared towards transmitting the operational skills necessary to apply in practice the knowledge, methodologies, strategies and solutions for living through the control of the different scales and levels of project

COURSE CONTENT/SYLLABUS

The aim of the Laboratory is to develop in students the ability to evaluate and select sustainable, consolidated and innovative technologies, in relation to specific architectural quality objectives and control of the environmental implications on the architectural project in the knowledge that the formal, functional and technological aspects act in a recursive and integrated way.

The program covers the following topics:

- Technology design aspects;*
- Technological innovation of process, design and product;*
- Technical information and implications in the architectural design;*
- Relationship between design and construction, design requirements and logic of assembly of products and materials;*
- Project testing in the residential field;*
- Building in the age of energy transition- Building in the age of digital transition.*

READINGS/BIBLIOGRAPHY

AA.VV. Manuale di Progettazione Edilizia, vol 4°, Hoepli, Milano 1995

E. Arbizzani, Progettazione tecnologica dell'architettura, Maggioli editore, Santarcangelo di

Romagna, 2021

Tucci F., *Involucro ben temperato. Efficienza energetica ed ecologia in architettura attraverso la pelle degli edifici*, Alinea, Firenze 2006.

Ulteriori riferimenti saranno forniti dalla docenza nel corso del Laboratorio

TEACHING METHODS OF THE COURSE (OR MODULE)

Educational modules organized in front-line lessons, interactive teaching forms, seminars

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☒ Project discussion
- ☐ Other

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

The assessment is based on the presentation of the three exercises illustrated and guided in the classroom



COURSE DESCRIPTION TECHNOLOGICAL DESIGN OF ARCHITECTURE WORKSHOP

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: BELLOMO MARIANGELA
PHONE: 081-2538723
EMAIL: mariangela.bellomo@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 03 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES

Technological culture for habitat design

PREREQUISITES

No

LEARNING GOALS

In line with the educational project of the Degree Course and with the training gained in the previous year in the disciplinary area of Technological and Environmental Design of Architecture, the teaching objective is to allow the student to:

- a) understand criteria, methods and tools of technological design in the development of the project in relation to the demanding framework and the socio-cultural, technical-productive and environmental context;
- b) use basic methodological tools necessary for systemic monitoring of project complexity levels;

- c) design within a framework of sustainable development and with knowledge and design approaches for innovation, experimentation and recovery;
- d) use the main methodologies relevant to the evolution of housing and construction culture in relation to settlement systems;
- e) produce graphical and descriptive documents with clarity and rigor

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student, in the development of the project, is guided to understand criteria, methods and tools of the technological design, as well as to know the problems related to the design and technical-constructive choices in relation to the demanding framework, and the socio-cultural, technical-productive and environmental context. The educational path aims to provide students with the basic knowledge and methodological tools necessary for systemic control of the levels of complexity of the project.

Applying knowledge and understanding

Students must be able to design within a framework of sustainable development and with knowledge and design approaches aimed at innovation and experimentation, with reference to emerging aspects of environmental and digital culture, as well as maintenance and retraining culture. The training course is geared towards transmitting the operational skills necessary to apply in practice the knowledge, methodologies, strategies and solutions for living through the control of the different scales and levels of project.

COURSE CONTENT/SYLLABUS

The aim of the Laboratory is to develop in students the ability to evaluate and select sustainable, consolidated and innovative technologies, in relation to specific architectural quality objectives and control of the environmental implications on the architectural project in the knowledge that the formal, functional and technological aspects act in a recursive and integrated way.

The program covers the following topics:

Architectural technology

- Systemic logic
- Performance-based approach
- Dry systems, wet systems
- Technical information

Sustainability in architecture

- The environmental issue
- Architecture, climate and energy
- Light as an architectural material: transparent envelopes
- Water in architectural design Industry and architecture
- The industrial revolution and architecture
- Prefabrication and industrialisation in construction

The digital revolution and architecture

READINGS/BIBLIOGRAPHY

AA.VV. Manuale di Progettazione Edilizia, vol 4°, Hoepli, Milano 1995

Arbizzani E., Progettazione tecnologica dell'architettura, Maggioli editore, Santarcangelo di Romagna, 2021

Campioli A., Lavagna M,(a cura di), Raccomandazioni per la progettazione di edifici energeticamente efficienti, Edizioni Laterservice, Roma, 2009.

Tucci F., Involucro ben temperato. Efficienza energetica ed ecologia in architettura attraverso la pelle degli edifici, Alinea, Firenze 2006.

Vezzoli C., Manzini E., Design per la sostenibilità ambientale, Zanichelli, Bologna, 2007.

Further references will be provided by the teacher during the Laboratory

TEACHING METHODS OF THE COURSE (OR MODULE)

Educational modules organized in front-line lessons, interactive teaching forms, seminars

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☐ Project discussion
- ☒ Other : Project discussion

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

The assessment is based on the presentation of the two exercises illustrated and guided in the classroom - development of a model and a book of an architectural work in steel; project of a artifact - and in the discussion of the topics covered in the theoretical lessons.



COURSE DESCRIPTION ARCHITECTURAL DESIGN STUDIO

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: CALDERONI ALBERTO
PHONE:
EMAIL: alberto.calderoni@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES

Architectural Design Studio 1

PREREQUISITES

none

LEARNING GOALS

The objective of the second-year design studio is to address the relationship between architectural design and context, and, based on this relationship, to construct the conceptual coordinates of the design intervention.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Through theoretical lectures, seminars, site visits, and studio activities, students will engage with compositional issues—distributive, typological, morphological, and linguistic—that form the basis of a certain way of interpreting architectural design and its various thematic articulations. Students will also be encouraged to explore connections

with other disciplines that contribute to the formation of the architectural project.

Applying knowledge and understanding

The students will be asked to develop their ability to structure the design process both theoretically and methodologically, and to produce design outputs that engage with the varying degrees of complexity that characterize architectural projects at different scales. The ability to apply some of the knowledge acquired in this area will be expressed through the studio design activities over the years of the program.

COURSE CONTENT/SYLLABUS

Second-year students in the Architectural Design Studio will explore possible strategies for urban settlement with the aim of generating processes of urban renewal and regeneration. The search for new forms of urban quality will drive the development of specific design themes, to be addressed through the interpretation and transformation of existing buildings and spaces, in order to promote the creation of new places—that is, devices capable of initiating transformative processes at a broader scale of influence.

The second-year studio belongs to a phase in the educational path in which architectural design assumes an explicitly urban dimension and becomes a tool for measuring and shaping the context. For this reason, the studio will carry out its design investigations within a highly urbanised setting. The project to be developed will offer an opportunity to test new interpretations of the relationship between built and open space. In specific urban conditions, students will be asked to propose new strategies capable of generating new balances between architecture and open space.

The aim of the proposed design brief is to stimulate reflection both on the specific dimension of the building and on the more complex scale of the urban context.

READINGS/BIBLIOGRAPHY

- Ascolese, M. Calderoni, A. Cestarello, V. 2017, *Anaciclosi. Sguardi sulla città antica di Napoli*
- Benjamin, W. 1955, *Immagini di città*
- Calderoni, A. 2016, *Appunti dal visibile*
- Calderoni, A. 2019, *Condizioni e consonanze*
- Calderoni, A., Gandolfi, C., Leveratto, J., Nitti, A., *Modelli, «STOÀ» n. 1, Anno I, Estate 2021*
- Calderoni, A., Gandolfi, C., Leveratto, J., Nitti, A., *Disegni, «STOÀ» n. 2, Anno I, Autunno 2021*
- Calderoni, A., Gandolfi, C., Leveratto, J., Nitti, A., *Renderings, «STOÀ» n. 3, Anno II, Inverno 2022*
- Calvino, I. 1993 *Le città invisibili*
- Campo Baeza, A. 2013, *L'idea costruita*
- Collotti, F. 2002, *Appunti per una teoria dell'architettura*
- Ferraro, I. 2007, *Atlante della città storica. Vol. 5*
- Marti Aris, C. 2002, *Silenzi eloquenti*
- Moneo, R. 2005, *Inquietudine teorica e strategia progettuale*
- Moneo, R. 2004, *La solitudine degli edifici, vol. 2*
- Pallasma, J. 2014, *La mano che pensa*
- Perec, G. 1989, *Specie di spazi*
- Quaroni, L. 1977, *Otto lezioni di architettura*
- Maeda, J. 2006, *Le leggi della semplicità*
- Rilke, R. M. 1929, *Lettere ad un giovane poeta*

Rossi, A. 1966, L'architettura della città
Sennett, R. 2013, L'uomo artigiano
Snozzi, L. 2013, 25, Aphorismen zur Architektur
Tanizaki, J. 2000, Libro d'ombra
Tessenow, H. 1916, Osservazioni elementari sul costruire
Utzon, J. 2011, Idee di architettura
Zevi, B. 1948, Saper vedere l'architettura
Zumthor, P. 2008, Atmosfere
Zumthor, P. 2003, Pensare architettura

TEACHING METHODS OF THE COURSE (OR MODULE)

Lectures and exercises. Design studio activity.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☒ Project discussion
- ☒ Other : A mid-term review and assessment of the design process (interim critique) will be held halfway through the semester.

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern

the design studio 2 will include the presentation by the students of the work produced and verification of learning on the topics contained in the reference bibliography.



COURSE DESCRIPTION ARCHITECTURAL DESIGN STUDIO

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2025/2026

COURSE DESCRIPTION

TEACHER: VANNELLI GIOVANGIUSEPPE
PHONE:
EMAIL: giovangiuseppe.vannelli@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES

Architectural Design Studio 1

PREREQUISITES

None

LEARNING GOALS

The objective of the second-year design studio is to address the relationship between architectural design and context, and, based on this relationship, to construct the conceptual coordinates of the design intervention.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Through theoretical lectures, seminars, site visits, and studio activities, students will engage with issues specific to architectural and urban design (such as distribution, typology, morphology, and

language) that contribute to the definition of a project and the critical interpretation of the themes and places proposed.

Applying knowledge and understanding

The students will be asked to develop their ability to structure the design process both theoretically and methodologically, and to produce design outputs that engage with the varying degrees of complexity that characterize architectural projects at different scales. The ability to apply some of the knowledge acquired in this area will be expressed through the studio design activities over the years of the program.

COURSE CONTENT/SYLLABUS

The second-year architectural design studio belongs to a phase of the educational programme in which the architectural design assumes an explicitly urban dimension and becomes a tool for measuring and shaping the context.

In fact, students in the second-year architectural design studio will explore possible design strategies at multiple scales in order to generate processes of urban redevelopment and regeneration.

The themes and projects to be developed will provide an opportunity to experiment with new interpretations of the relationship between open and built space. In specific urban conditions, students will be asked to propose new strategies capable of generating new balances between buildings and open spaces.

The aim of the proposed design briefs is to stimulate reflection on both the specific dimension of architecture and the more complex dimension of the urban context.

READINGS/BIBLIOGRAPHY

Le Corbusier, 1943, If I had to teach you architecture

Lynch, K. 1960, L'immagine della città

Rossi, A. 1966, L'architettura della città

Gregotti, V. 1966, Il territorio dell'architettura

Rowe, C. 1978, Collage City

Martì Aris, C. 1990, Le variazioni dell'identità

Purini, F. 2000, Comporre l'architettura

Koolhaas, R. 2001, Junkspace

Further bibliographical references will be provided during the design studio. The search for reference texts and projects, as well as materials and contributions for a broader understanding of the topics addressed (films, photographs, websites, etc.), will also be an important part of the design studio.

TEACHING METHODS OF THE COURSE (OR MODULE)

Lectures and exercises. Design studio activity.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☒ Project discussion
- ☐ Other

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern