



COURSE DESCRIPTION ARCHITECTURAL DRAWING

SSD: DISEGNO (ICAR/17)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: DELLA CORTE TERESA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U5512 - LABORATORIO DI DISEGNO DELL'ARCHITETTURA
MODULE: 52491 - DISEGNO DELL'ARCHITETTURA
TEACHING LANGUAGE: ITALIANO
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 5

REQUIRED PRELIMINARY COURSES

There are no required preliminary courses.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The goal is to provide the tools necessary to represent architecture and make possible the figuration of space through the construction of graphic models.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Through face-to-face courses, seminars, tutorials and field trips, the student is familiar with the theories and techniques of surveying and representing architecture, understanding their specific applications with reference to traditional techniques and more recent developments related to the

use of new technologies.

Applying knowledge and understanding

The student develops the ability to interpret architectural drawings and produce graphic elaborations through various representational techniques, as well as the ability to read and survey the built environment in its various articulations and at various scales. These skills are applied within the laboratories.

COURSE CONTENT/SYLLABUS

The contents of the course are aimed at learning the concepts of perception, interpretation and representation of architecture through related graphic and infographic tools, following a course of study that starts from the Architectural Orders and prepares the themes of modern and contemporary architecture by specifically covering the following topics: Interpretation and transcription of architecture. Projections: the plan the elevation and the section (3 CFU) - Origins and codification of architectural drawing (1 CFU) - Three-dimensional reading and interpretation of architectural spatiality through axonometry (1 CFU).

READINGS/BIBLIOGRAPHY

The essential and reference bibliography contained in the course syllabus (main and recommended texts) is given below; it is supplemented during the course developments by supporting materials that can be downloaded from the lecturer's institutional website and collected in the Educational Material folder. -Edwin Abbott, *Flatlandia. Racconto fantastico a più dimensioni*, Adelphi Edizioni, Milano 1966. -Giacomo Barozzi da Vignola, *Regola delli cinque ordini d'architettura*, ristampa anastatica dell'edizione del 1607, Arnaldo Forni Editore, Bologna 1988. -Giuseppe Boidi-Trotti, *I cinque ordini del Vignola ossia Manuale di Disegno Architettonico*, Torino 1876. -Manlio Brusatin, *Storia delle linee*, Einaudi, Torino 1993. -Teresa Della Corte, *Declinazioni della trasparenza in architettura. Una indagine sulla complessità attraverso la differenza/Declinations of transparency in architecture. A survey about complexity through the difference*, Officina Edizioni, Roma 2020. -Teresa Della Corte, Riccardo Florio, *La Rappresentazione dello spazio domestico 1, Dieci interpretazioni dell'abitazione contemporanea*, Officina Edizioni, Roma 2008. -Giuseppe Di Napoli, *Disegnare e conoscere. La mano, l'occhio, il segno*, Einaudi, Torino 2004. -Mario Docci, *Manuale di Disegno architettonico*, Editori Laterza, Roma-Bari 1987. -Riccardo Florio, *Origini evoluzioni e permanenze della classicità in architettura, Un'esperienza di conoscenza disegno e rappresentazione dell'architettura*, Officina Edizioni, Seconda edizione, Roma 2004. Seconda edizione 2018. -Riccardo Florio, *Sul Disegno Riflessioni sul disegno di architettura. About Drawing Reflections about architectural drawing*, Officina Edizioni, Roma 2012. -Jacques Guillerme, *La figurazione in architettura*, Franco Angeli, Milano 1982. -Le Corbusier, *Il Linguaggio delle pietre*, Marsilio, Venezia 1988. -Riccardo Migliari, *Il disegno degli ordini e il rilievo dell'architettura classica: Cinque Pezzi Facili*, in <<disegnare idee immagini>>, anno II, n. 2, giugno 1991. -Henry Millon e Vittorio Magnago Lampugnani, edited by, *Rinascimento. Da Brunelleschi a Michelangelo. La Rappresentazione dell'Architettura*, Bompiani, Milano 1994. -Antonio Monestiroli, *La metopa e il triglifo. Nove lezioni di architettura*, Editori

Laterza, Bari 2002. -Franco Purini, Una lezione sul Disegno, Gangemi Editore, Roma 2007. - Ludovico Quaroni, *Progettare un edificio. Otto lezioni di architettura*, Mazzotta, Milano 1977. - Mario Sironi, *Il mito dell'architettura*, Mazzotta, Milano 1990. -John Summerson, Il linguaggio classico dell'architettura. Dal Rinascimento ai maestri contemporanei, Einaudi, Torino 2000. - Vitruvio, *De Architectura* edited by Pierre Gros, Einaudi, Torino 1997 (in particolare il *Libro Primo*). -Wim Wenders, *L'atto di Vedere. The act of Seeing*, Ubulibri, Milano 1992.

TEACHING METHODS OF THE COURSE (OR MODULE)

Lectures and practical exercises. The didactic organization makes use of theoretical lectures (about 50% of the total hours) and application activities for drawing (about 30% of the total hours) preceded by a manual drawing phase in the classroom (about 20% of the total hours) from which the experiential path is initiated.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☐ Project discussion
- ☒ Other : discussion of graphic designs

In case of a written exam, questions refer to

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

b) Evaluation pattern

The assessment method is equal between the representative papers and the oral discussion on the topics covered during the course.



COURSE DESCRIPTION ARCHITECTURAL DRAWING

SSD: DISEGNO (ICAR/17)

DEGREE PROGRAMME: ARCHITETTURA (D06)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U5561 - LABORATORIO DI DISEGNO E RAPPRESENTAZIONE DELL'ARCHITETTURA
MODULE: 00738 - DISEGNO DELL'ARCHITETTURA
TEACHING LANGUAGE: ITALIANO
CHANNEL: 03 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 6

REQUIRED PRELIMINARY COURSES

No propaedeutic teaching is provided

PREREQUISITES

There are no prerequisites

LEARNING GOALS

The Architectural Drawing course is aimed at acquiring theoretical and applied knowledge in Architectural Drawing aimed at introducing the reading of architectural space in its synchronic and diachronic articulation with respect to the architectural tradition as it has developed over time up to the contemporary culture of project. The course aims to provide students with the basic notions of Architectural Drawing so that they can responsibly be able to control subsequent insights.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The Architectural Drawing configures the architect's own language. The experimentation addressed during the course aims to introduce the student to the understanding of the spaces, to

the evaluation of the form, to the verification of the construction practices, to the appropriation of signs and codes related to the various themes and to the scales of representation, in view of the project development goal. The student must demonstrate that he governs the exploratory process of architecture at various scales through Drawing, in its sense of critical reading tool applied to the knowledge of Architecture, through the scientific methods of the Science of Representation.

Applying knowledge and understanding

The student develops the ability to read and elaborate architectural drawings and to know and master the various techniques of representation of architecture, the city and the environment, in the different articulations and at various scales. These skills, which will be applied and articulated within the Architectural Drawing course and the Architectural Project Representation course, as well as the Design, Construction, Urban Planning and Restoration laboratories, will also be expressed by the student in innovative ways. Making judgments: The student must demonstrate control of the representation process of both architecture and the city and the environment, through critical awareness in the evaluation and presentation of the expected results.

Communication skills: The student must be able to argue the knowledge acquired in a clear and mature manner, be able to present the results achieved both during the course and in the final exam in understandable language that respects technical terminology. He must demonstrate that he has learned with awareness the founding principles of the discipline and of the scientific methods with respect to which he is called to provide evidence, through oral discussion and presentation of the foreseen documents, of acquisition and control of the methods studied.

Learning ability: The student must demonstrate his ability to develop autonomously the systematic study of the topics covered, demonstrating that he is able to critically consult bibliographic sources, documents, texts and scientific articles that will allow him to hoard a progressive independence of judgment even within experiences gained in seminars, conferences and collective debates.

COURSE CONTENT/SYLLABUS

The contents of the course aim to build the progressive approach to the recognition of architecture, starting from the classical Orders up to the interpretations of the classical language materialized in historical architecture, to proceed to its subsequent representation. The program deals with the following topics: Representation and interpretation of architecture_Identity and projection: the experience of the plan, elevation and section (2 credits); Birth and codification of architectural drawing_ The triad of plan, elevation and section_Drawing as a study of classical antiquity (2 credits); The Renaissance and the invention of perspective (2 credits).

READINGS/BIBLIOGRAPHY

The teaching material, in addition to the essential and reference bibliography contained in the course programme, makes use of support materials that are made available to students on the teachers' website in the Teaching material section. The main reference and recommended texts are the following:

- Jacopo Barozzi da Vignola, Regole della Prospettiva Pratica, con i commentarj di Egnatio Danti, Venezia MDCCXLIII, anastatic reprint Arnaldo Forni Editore, Bologna.
- Giuseppe A. Boidi-Trotti, I cinque ordini del Vignola ossia Manuale di Disegno Architettonico, Torino 1876.
- Mario Docci, Manuale di Disegno architettonico, Editori Laterza, Roma-Bari 1987.
- Riccardo Florio, Origini evoluzioni e permanenze della classicità in architettura, Un'esperienza di conoscenza disegno e rappresentazione dell'architettura, Officina Edizioni, Seconda edizione, Roma 2004. Second edition 2018.
- Riccardo Florio, Sul Disegno Riflessioni sul disegno di architettura. About Drawing Reflections about architectural drawing, Officina Edizioni, Roma 2012.
- Riccardo Florio, L'architettura delle Idee. La Stazione Zoologica Anton Dohrn di Napoli, Editori Paparo, Napoli_Roma, 2015. Second edition 2021.
- Le Corbusier, Il Linguaggio delle pietre, Marsilio, Venezia 1988.
- Le Corbusier, Verso una architettura, a cura di Pierluigi Cerri e Pierluigi Nicolini, Longanesi &C., Milano 1989.
- Wolfgang Lotz, L'architettura del Rinascimento, Electa, Milano 1989.
- Riccardo Migliari, Il disegno degli ordini e il rilievo dell'architettura classica: Cinque Pezzi Facili, in <<disegnare idee immagini>>, anno II, n. 2, giugno 1991.
- Henry Millon e Vittorio Magnago Lampugnani, a cura di, Rinascimento. Da Brunelleschi a Michelangelo. La Rappresentazione dell'Architettura, Bompiani, Milano 1994.
- Mario Sironi, Il mito dell'architettura, Mazzotta, Milano 1990.
- Christof Thoenes, Sostegno e adornamento. Saggi sull'architettura del Rinascimento: disegni, ordini, magnificenza, Electa, Milano 1998.
- Vitruvio, De Architectura, a cura di Pierre Gros, Einaudi, Torino 1997 (in particular the Libro Primo).

TEACHING METHODS OF THE COURSE (OR MODULE)

The teaching method makes use of frontal lessons for about 50% of the total hours, of applicative activities to deepen the theoretical aspects and for the graphic elaboration of the drawings for about 20% of the total hours, with a phase of manual drawing in the classroom for about 30% of the total hours.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☐ Project discussion

☒ Other : discussion of representative papers

In case of a written exam, questions refer to

☐ Multiple choice answers

☐ Open answers

☐ Numerical exercises

b) Evaluation pattern

The evaluation methods are absolutely equal between the representative documents and the oral discussion on the topics addressed during the course.



COURSE DESCRIPTION ARCHITECTURAL DRAWING

SSD: DISEGNO (ICAR/17)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: SCANDURRA SIMONA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U5512 - LABORATORIO DI DISEGNO DELL'ARCHITETTURA
MODULE: 52491 - DISEGNO DELL'ARCHITETTURA
TEACHING LANGUAGE: ITALIANO
CHANNEL: 03 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 5

REQUIRED PRELIMINARY COURSES

Nothing.

PREREQUISITES

Nothing.

LEARNING GOALS

The aim is to provide the necessary skills to represent architecture at different scales through the construction of graphic models.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student is introduced to the theories and techniques of Architectural Survey and Representation through lectures, seminars, exercises and on-site visits. The student thus understands the specificities of their application with reference to traditional techniques and the

more recent evolutions linked to the use of new technologies.

Applying knowledge and understanding

The student develops the ability to interpret architectural drawings and to produce graphic elaborations through various representation techniques. The student also develops the ability to read and survey the built environment at various scales. These skills are applied in workshops.

COURSE CONTENT/SYLLABUS

The course covers the tools and techniques useful for translating architectural reality, whether existing or planned, into its representation.

Specifically, the following themes will be addressed:

- Tools and techniques of representation;
- Concept of plan, elevation and section;
- Monge method;
- Proportioning and modularity.
- Graphic conventions, reduction scales, dimensioning methods, symbologies;
- The representation of stairs;
- Layout of graphic work;
- Representation of the case study.

READINGS/BIBLIOGRAPHY

- M. Docci, M. Gaiani, D. Maestri, *Scienza del Disegno*, Città Studi, 2021.
- R. De Rubertis, *Il disegno dell'architettura*, Carocci, Roma 2005.
- V. Ugo, *Fondamenti della rappresentazione architettonica*, Esculapio, Bologna 1994.
- M. Docci, *Manuale di disegno architettonico*, Laterza, Roma 1990.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course consists of theoretical lectures and practical exercises relating to the topics covered. The exercises will be carried out in the classroom and at home and will be verified during the examination. In particular, a case study will be assigned to verify the knowledge acquired.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☒ Oral
- ☐ Project discussion
- ☒ Other : Discussion of graphic works.

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers

☐ Numerical exercises

b) Evaluation pattern



COURSE DESCRIPTION HISTORY OF ARCHITECTURE 1

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: CAPANO FRANCESCA
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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: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

None.

PREREQUISITES

Basic knowledge of historical and cultural events relating to the geographical areas and the time span faced during the course (15th century - 18th century).

LEARNING GOALS

The aim of the course is to develop the critical ability necessary for the practice of architecture, which necessarily passes through the knowledge of history. The student will be encouraged to know and read the architecture (from the building to the territorial systems) through different points of observation (construction techniques; materials used; aesthetic and symbolic considerations; personality of the craftsman and the client; relations with the decorative apparatus pictorial and sculptural).

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

At the end of the training course, the student will have to demonstrate that he has learned the linguistic code of architecture in the modern age and that he understands the critical value of the architectural project at different scales over a period of time. The student will have to understand the role of the architecture analyzed in relation to the architectural theories between the Renaissance and the Enlightenment.

Applying knowledge and understanding

At the end of the training course, the student will have to demonstrate that they are capable of applying knowledge of the linguistic code for the historical-evolutionary analysis of architecture at different scales, demonstrating an ability to understand the relationship between theory and design practice.

COURSE CONTENT/SYLLABUS

INTRODUCTION: The Meaning of Classicism; Outlines of the History of Architecture between the Classical Age and the Middle Ages; Greek Architecture from the Origins to the Hellenistic Period (the city, architectural orders, typologies); Roman Architecture (Vitruvius and the *De Architectura libri decem*); The Permanence of Antiquity between Late Antiquity and the Middle Ages and the Romanesque; Elements of Gothic Architecture.

RENAISSANCE: Between the Proto-Renaissance and the Renaissance in Tuscany (Filippo Brunelleschi: The Dome of Santa Maria del Fiore, the Portico degli Innocenti; the Church of San Lorenzo and the Old Sacristy, the Pazzi Chapel; the Church of Santo Spirito); Vitruvianism and the Theory of Leon Battista Alberti (Palazzo Rucellai, the Church of Santa Maria Novella, the Malatesta Temple, the Churches of Sant'Andrea and of San Sebastiano). The 15th-century Florentine and Roman palaces. The 15th-century city (the ideal city and urban transformations, Filarete's *Sforzinda*, the cases of Pienza, Urbino and Ferrara); The Renaissance in Milan (Filarete and the Ospedale Maggiore, Leonardo and the central plan church, Bramante).

MANIERISM: The 16th-century Roman palace (Antonio da Sangallo junior: Palazzo Farnese, Villa Madama, Villa Farnese in Caprarola); The building site for the new St. Peter's: Raphael architect (Villa Madama) and pupils: Baldassarre Peruzzi (The Farnesina, Palazzo Massimo); Giulio Romano (Palazzo Te, the House of Giulio Romano, the Cavallerizza of the Ducal Palace); Michelangelo (The New Sacristy and the Library of San Lorenzo, the project for the new St. Peter's, the Piazza del Campidoglio); The Counter-Reformation (the Gesù church); The treatises (Sebastiano Serlio, the *sette libri dell'Architettura*, Jacopo Barozzi da Vignola, Villa Farnese in Caprarola, Villa Giulia, the *Regole dei cinque ordini dell'Architettura*); Veneto area: Jacopo Sansovino (the Libreria Marciana, the Loggetta, the Zecca); Andrea Palladio (the Basilica of Vicenza, the palaces of Vicenza, the 'Palladian villas', the Rotonda, the churches of San Giorgio Maggiore and of the Redentore, the *Quattro Libri sull'Architettura*).

THE BAROQUE AND THE ROCOCO; Sisti V and Domenico Fontana's plan; The early Roman Baroque; Pietro da Cortona (Villa Sacchetti in Pigneto, the church of Santi Luca e Martina, the

façade of the church of Santa Maria della Pace); Gian Lorenzo Bernini (San Pietro Square, the churches of Sant'Andrea al Quirinale, of church of the Assumption in Ariccia and of San Tommaso in Castel Gandolfo, the Barberini Palace and the Montecitorio Palace, the plans for the Louvre); Francesco Borromini (the complex of San Carlino alle Quattro Fontane, the Oratory of San Filippo Neri, the churches of Sant'Ivo alla Sapienza and of Sant'Agnese in Agone, the college of Propaganda Fide, Palazzo Capodiferro Spada); Guarino Guarini (the chapel of the Sacra Sindone, the church of San Lorenzo); France (the 'baroque classicism', the theme of the place royale; the eastern front of the Louvre by Claude Perrault; the residence of Vaux-le Vicomte, the palace of Versailles; J. Hardouin-Mansart, Dome des Invalides); Palladianism (Inigo Jones: St. Paul's Church at Covent Garden, Christopher Wren: St. Paul's Cathedral, the London Plan); The Austrian Rococo (Johann Bernhard Fischer von Erlach: the Royal Palace of Schönbrunn, the Karlskirche, Johann Lukas von Hildebrandt: the Belvedere in Vienna, Balthasar Neumann: the Residence in Würzburg). Italy (Filippo Juvarra: the Basilica of Superga, the Palazzina di Stupinigi; Bernardo Vittone: the Sanctuary of the Visitation in Vallinotto, the Parish Church of Grignasco). 18th-century Roman architecture (Francesco De Sanctis: the Scalinata di Piazza di Spagna, Filippo Raguzzini: Piazza Sant'Ignazio).

NEOCLASSICISM IN THE 18TH CENTURY: Theory (Carlo Lodoli, Francesco Algarotti and Andrea Memmo, Francesco Milizia, Johann Joachim Winckelmann). Architecture, antiques and collecting (Giovanni Battista Piranesi: various engravings, *Parere sull'Architettura*, Santa Maria del Priorato Chapel); Giuseppe Piermarini (Teatro alla Scala). France (Marc-Antoine Laugier; Ste-Geneviève Church by J.-G. Soufflot; Etienne-Loius Boullée's *Talking Architecture*: Theatre for the Place du Carrousel, the mausoleum for Isaac Newton, various projects; Claude-Nicolas Ledoux: the Salines of Chaux in Arc-et Senans, the customs barriers of Paris, the ideal city of Chaux. NAPLES: CITY AND ARCHITECTURE: The origins of the city: Partenope and Neapolis; Angevin Naples (Castel Nuovo, the Angevin churches); Aragonese Naples (the reconstruction of Castel Nuovo, the Southern Renaissance); The Naples Viceroyalty (don Pedro de Toledo's 'enlargement plan'); the Bourbons edge (the Neapolitan royal palaces, the Royal Palace of Caserta, the Royal Sites, Luigi Vanvitelli and Ferdinando Fuga); The French Decade: architecture and the city.

READINGS/BIBLIOGRAPHY

The student may choose from one of the following textbooks: Renato De Fusco, *Mille anni d'architettura in Europa*, Editori Laterza, Bari 1993. David John Watkin, *Storia dell'architettura occidentale*, Bologna, Zanichelli 1990. A selection of texts from the following volumes will be provided for 'Naples: City and Architecture': G. Alisio, *Urbanistica napoletana del Settecento*, Bari, Dedalo, 1979. A. Bonanni, *Napoli angioina*, in *Conoscere Napoli: storia e itinerari*, a cura di D. Bartolucci, Napoli, Liguori, 1990. A. Buccaro, G. Maticena, *Architettura e urbanistica dell'età borbonica. Le opere dello stato, i luoghi dell'industria*, Napoli, Electa, 2004. R. De Fusco, *L'architettura del Quattrocento*, Torino, UTET, 1984. D. Del Pesco, *Napoli: l'architettura*, in *Storia dell'architettura italiana. Il secondo Cinquecento*, a cura di C. Conforti, R.J. Tuttle, Milano, Electa, 2001. C. de Seta, *Napoli. Le città nella storia d'Italia*, Roma-Bari, Laterza, 1981. A. Ghisetti Giavarina, *Napoli*, in *Storia dell'architettura italiana. Il primo Cinquecento*, a cura di A. Bruschi, Milano, Electa, 2002. R. Pane, *Architettura e urbanistica del Rinascimento*, in *Storia*

di Napoli, Napoli, Edizioni Scientifiche Italiane, vol. IV, t. I; A. Venditti, Urbanistica e architettura angioina, in Storia di Napoli, Napoli, Edizioni Scientifiche Italiane, vol. III, 1969; E. Violini, Napoli dalle origini al secolo XIII, in Conoscere Napoli..., cit. Students will be provided with all lectures in pdf format with the iconographic material necessary for understanding the course topics. Supplementary material will be provided for the on-site lessons that will take place in and around Naples.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course will be conducted mainly in face-to-face lectures in which, however, the student will be encouraged to participate. Each lecture will include in-depth questions and clarifications suggested by the students. There will be two mid-course lessons in which the student will have to expound a theme of his/her choice between Renaissance and Mannerism. Three lessons will be spent visiting Naples and its surroundings to buildings, civil, religious, a Royal Site and a didactic visit to the 'Centro Antico' of Naples and the archaeological excavations of San Lorenzo.

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 examination consists of an interview in which the student must demonstrate that he/she has learned the topics covered in the lectures. The interview includes sample questions. The student must demonstrate critical capacity and the ability to link the topics, to recognise the evolution of the language of architecture over the centuries and to be able to contextualise architecture in relation to the major historiographical categories, to have acquired a scientific vocabulary.



COURSE DESCRIPTION

THEORY AND TECHNIQUE OF ARCHITEXCTURAL PROJECT

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: ORFEO CAMILLO
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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: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 6

REQUIRED PRELIMINARY COURSES

There is no propaedeutic teaching.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The course intends to initiate students to the understanding of architectural practice starting from a thematic reading that transversely crosses the main theoretical positions that exist alternate in the history of architecture.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Through theoretical lessons, seminars, site inspections, the student gets to know compositional issues (distributive, typological, morphological and linguistic) which are the basis of the

architectural project and its various thematic articulations and understands their relationships with other disciplines that contribute to the formation of the architectural project.

Applying knowledge and understanding

The student develops the ability to theoretically and methodologically structure the activity design and to produce design drawings dealing with the different degrees of complexity of the architecture project at different scales. The student also develops the ability to apply to the design activity, in its various articulations, dealing with the different degrees of complexity and with the different fields of application of architectural and urban projects.

COURSE CONTENT/SYLLABUS

The course intends to initiate students to the understanding of architectural practice starting from a thematic readings able to traverse across the main theoretical positions that exist alternate in the history of architecture. The theoretical aspect will be related to the technical components of the design, compositional, constructive and distributive process, through the reading works by the masters of architecture in relation to their theoretical writings. In this way, the The course aims to solicit in students a critical reflection on the ways in which architecture is thought, programmed, built and used and to introduce them to the use of a critical method useful for interrogate, choose and build design themes centered on the character of architecture, i.e on its ability to build space around man and to relate that same space with its purpose: its ability to be inhabited. The synthesis of the acquired knowledge through the discussion of theoretical positions, and skills, acquired through the reading of technical components of the design process, will contribute to the construction of a profile of skills that will equip the student with the basic tools useful for governing the process planning.

READINGS/BIBLIOGRAPHY

- A. Campo Baeza, *Principia architectonica*, C. Marinotti Edizioni, Milano 2018.
- Le Corbusier, *Verso una architettura*, Longanesi, Milano 1999.
- C. Martí Arís, *Le variazioni dell'identità. Il tipo in architettura*, Ed. CLUP, Milano, 1990.
- C. Martí Arís, *La cèntina e l'arco. Pensiero, teoria, progetto in architettura*, C. Marinotti Edizioni, Milano, 2007.
- L. Mies van der Rohe, *Gli scritti e le parole*, Einaudi, Giulio Einaudi Editore, Torino, 2010.
- A. Monestiroli, *La metopa e il triglifo*, Laterza, Roma-Bari, 2002.
- A. Loos, *Parole nel vuoto*, Adelphi, Milano 1992.
- F. Purini, *Comporre l'architettura*, Laterza, Roma-Bari, 2000.
- A. Rossi, *L'architettura della città*, Il Saggiatore, Milano, 2018.
- A. Rossi, *Introduzione a E.L. Boullée*, Architettura. Saggio sull'arte, Einaudi, Torino 2005.
- A. Rossi, *Architettura per i Musei*, in AA. VV., *Teoria della progettazione architettonica*, Dedalo, Bari 1968.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course will be articulated through seminars, lectures and exercises, within the framework of the debate on theories, techniques and poetics of architecture, in order to accompany students in the construction of a critical horizon useful for understanding architectural practice and the foundations necessary to govern the design process. The course will be structured through study ed exercises on the main theoretical positions that have alternated in the history of architecture, with a particular focus on some masters of modern architecture and a cycle of exercises on the compositional principles that govern space. The theoretical contents will be transferred to students as a basis/outline on which to articulate the proposed exercises useful for understanding ed in-depth analysis of the topics covered. Lectures and in-depth seminars they can also be provided through multimedia support and with the help of online materials. The classroom exercises through the use of suitable tools for the preparation of the papers and/or models.

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 Commission evaluates the awareness achieved by the student through the oral interview and the acknowledgment of the papers produced during the exercises.



COURSE DESCRIPTION

TECHNOLOGICAL CULTURE FOR HABITAT DESIGN

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: TERSIGNI ENZA
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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: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 6

REQUIRED PRELIMINARY COURSES

Not foreseen

PREREQUISITES

No prerequisites

LEARNING GOALS

The course has the key objective of transmitting the fundamentals of the discipline of Architectural Technology, through the awareness of the synergic nature of the different components of an Architectural Building, in relation to the project, both in its conceptual and operational phases. The disciplinary contents delivered through lectures and exercises will therefore be aimed at providing the basis for a design and technical culture through information and training of the student, as well as to make the latter competent in the management of the process - programmatic and executive - that underlies the construction of an architectural artefact.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Through lectures, seminars, active meetings and exercises the student interprets and understands the technological and material issues related in particular to the construction and executive aspects of the architectural project also in relation to the use of methodologies and strategies for environmental sustainability and the protection of the natural and cultural heritage and considers their intertwining with the other disciplines that contribute to architectural and environmental design.

Applying knowledge and understanding

The student develops the ability to interpret and subsequently begin to define in detail, in both theoretical and applicative terms, the technological and constructional aspects of architecture, both in the knowledge and design phases.

COURSE CONTENT/SYLLABUS

The course content explores different aspects of the design-construction process through general and specific topics.

General topics

- technological design;
- from the design idea to the construction of a building;
- the principles of sustainable architecture;
- the role of technology in the development of the architectural project;
- the requirements-performance approach for the quality of projects.

Specific topics

- the building as a system;
- construction systems;
- the production processes of building materials and components.

READINGS/BIBLIOGRAPHY

Basic texts

- E. Arbizzani, Progettazione tecnologica dei sistemi edilizi. Progetto, processo, costruzione, Maggioli Editore, Sant'Arcangelo di Romagna, 2021.
- A. Campioli, M. Lavagna, Tecniche e architettura, Città studi edizioni, Milano, 2013.
- M. Torricelli, R. Del Nord, P. Felli, Materiali e Tecnologie dell'Architettura, Laterza, Roma, 2005.

Recommended bibliography

- AA.VV., Progettazione tecnologica, TECHNE n.2, Firenze University Press, 2011 (<http://www.fupress.net/index.php/techne/issue/view/785>).
- N. Sinopoli, V. Tatano, Sulle tracce dell'innovazione, Franco Angeli, Milano, 2002.
- M. Losasso, Architettura, tecnologia e complessità, Clean, Napoli, 1991.
- E. Dassori, R. Morbiducci, Costruire l'Architettura. Tecniche e tecnologie per il progetto, Tecniche nuove, 2010.

- AAVV, Manuale di progettazione edilizia, Hoepli, 1995.
- M. Salvadori, R. Heller, Le strutture in architettura, Etaslibri, Milano, 1992.
- AA.VV., Manuale di progettazione edilizia, Hoepli, Milano, 2007 (Volumi: 1, 4 e quaderni: le strutture, le chiusure verticali, le chiusure orizzontali, le partizioni, le finiture).

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is divided into theoretical lectures and graphic exercises aimed at verifying the basic knowledge acquired by the students and assessing their application skills.

The main topics covered in the theoretical lectures are:

- The Architecture Technology.
- Sustainable development and the construction world.
- Systemic logic and building system.
- Structures in architecture: foundation structures, elevation structures, floors.
- Closures: perimeter walls, flat and sloping roofs, external fixtures.
- Partitions: walls, internal fixtures, stairs.
- Hints on plants.
- The building process.
- The demand/performance approach.
- Construction materials and systems.
- Methods of representation of the architectural project: the executive detail.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

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

In case of a written exam, questions refer to

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

b) Evaluation pattern



COURSE DESCRIPTION **Environmental Systems Sustainability**

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

DEGREE PROGRAMME: SVILUPPO SOSTENIBILE E RETI TERRITORIALI (P40)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: DELL'ACQUA FEDERICA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U2943 - LA STRUTTURA ECOLOGICA DEGLI INSEDIAMENTI
MODULE: U2942 - SOSTENIBILITA' DEI SISTEMI AMBIENTALI
TEACHING LANGUAGE: ITALIANO
CHANNEL: FV:A-Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 5

REQUIRED PRELIMINARY COURSES

Not foreseen

PREREQUISITES

There are no prerequisites

LEARNING GOALS

The aim of the integrated course "The Ecological Structure of Settlements" - consisting of the "Ecology" (6 CFU) and "Sustainability of Environmental Systems" (5 CFU) Modules - is to provide students with a cultural framework, basic notions, and the definition of appropriate methodologies for reading and interpreting environmental systems. The latter is the outcome of the interaction between the anthropic and natural environment, as well as between biotic and abiotic components and ecosystem-based conditions, providing the skills to address ecological-environmental issues to apply to urban settlements.

The 'Sustainability of Environmental Systems' module aims to provide knowledge and methodologies proper for Environmental Design in relation to the new urban renewal scenarios imposed by climate change, in line with the European Green Deal addresses in international technical policies. The module provides knowledge and methodologies, as well as tools, according to an ecosystem-based approach to urban design. The training goal is also to provide the basic tools to envisage strategies and actions at the scale of urban districts, which include different neighborhoods and built-up areas. This scale represents, according to the guidelines of environmental design in European and national contexts, an appropriate conforming dimension for the effectiveness of interventions aimed at climate adaptation and mitigation related to the sustainable development guidelines of the 2030 Agenda.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must be able to understand the conditions of sustainability of environmental systems in relation to the impacts of climate change in the urban context. By using the basic concepts related to the ecosystem-based approach in environmental design, to the sustainable use of resources and to the reduction of the impacts of human activities on environmental systems, the students acquire the appropriate methodologies of knowledge and interpretation of the ecosystem values of the living space of urban districts.

Applying knowledge and understanding

The student will be able to carry out specific investigations related to the environmental aspects of the anthropic habitats. On those bases, the student will be able to make programmatic and feasible choices aimed at climate mitigation and adaptation to the environmental impacts of urban systems, acquiring the ability to prefigure new climate-proof arrangements of urban districts.

COURSE CONTENT/SYLLABUS

1_ Introduction to the Environmental Systems Sustainability Module (1 hour). Introduction to the "Sustainability of Environmental Systems" Module, interaction with the "Ecology" Module, educational goals of the Integrated Course and Module, examination methods, teaching materials, final assessment methods

2_ Environmental Design and Sustainable Development (2 hours). Basic concepts of Environmental Design through the evolution and reference figures of the discipline; environmental design in the framework of the Agenda 2030 Sustainable Development Goals.

3_ Environmental Systems, Urban Ecosystems, Urban Habitats (2 hours). The concept of environment, environmental system, ecosystem and urban habitat in Environmental Design
Exercise: The "Words" of Environmental Design. Definition, argumentation and illustrative design examples of the basic terms of the discipline.

4_ Cities, human activities and climate impacts (4 hours). Climate change scenarios, definition of hazard, risk and climate vulnerability; relationship between human activities and climate impacts in the urban context; definition of climate adaptation and mitigation as integrated measures to reduce the effects of climate change in the urban context. Exercise: Report on the relationship

between human activities and climate impacts in the urban context

5_ The new climate and energy scenarios. Technical guidelines and measures for climate mitigation and adaptation (2 hours). The European Green Deal and the Next Generation EU plan, the Renovation Wave, the FIT FOR 55 package, the REPowerEU plan. National technical policies on climate adaptation: SNAC (2015) and PNACC (2022). Climate adaptation and mitigation plans in Europe and Italy, the Climate Adaptation Plans of Barcelona, Paris, Berlin, Hamburg, Mantova.

6_ The EbA - Ecosystem based Adaptation approach to urban climate-proof design (6 hours). The ecosystem-based approach to climate-proof urban design, the concept of environmental performance and ecosystem service provided by urban greening for the reduction of climate vulnerabilities of a settlement system. Exercise: Insight into an urban eco-district in Naples by reading the ecosystem values of in the area according to the Corinne Land Cover classification.

7_ The role of green infrastructure and nature-based solutions for climate proof urban design (4 hours). The contribution of green infrastructure to climate adaptation and mitigation at the urban project scale through the cases of Copenhagen, Barcelona and Milan; the contribution of NBS solutions for the building-open space system in the green infrastructure at urban scale.

8_ Climate-proof eco-districts. Climate adaptation strategies and actions (4 hours). The urban design of contemporary North-European eco-districts, sustainable development strategies at the district scale, the cases of, Biocity 2.0 in Vienna, the Adlershof district in Berlin, Hammarby Sjöstad in Stockholm (Sweden), Bo01- Västra Hamnen in Malmö (Sweden), Ørestad in Copenhagen (Denmark), the St. Georg and Winterhude districts in Hamburg. Exercise: Interpretative reading of the environmental aspects of a European eco-district.

9_ Analysis and knowledge of environmental systems: the sectoral areas blue, green, grey, red (12 hours). Knowledge, through the breakdown by sectoral areas, of an environmental system identified at the urban district scale, in the components relating to the fabric of the built environment, the infrastructural system, the green and water system, and the interpretative analysis on the based on SNAC (2015) and PNACC (2022) guidelines. Exercise: Analysis according to sectoral areas of an urban district in Naples.

10_ Strategic Actions and Programmes for Environmental Systems (13 hours). Development of strategic directions, according to sectoral areas, aimed at the transition of the urban district examined in the analysis and knowledge phase, into a climate proof eco-district. Exercise: Climate-proof strategies and actions for an urban eco-district in Naples.

READINGS/BIBLIOGRAPHY

- Attaianese E., Losasso M. (2022) "La Progettazione ambientale e la ricerca di Area Tecnologica per il progetto di architettura", in Attaianese E., Losasso M. (Eds.) *La ricerca nella Progettazione ambientale. Gli anni 1970-2008. I contributi dalle Sedi universitarie del Cluster Progettazione ambientale della Società Italiana della Tecnologia dell'Architettura*, Maggioli, Santarcangelo di Romagna, pp. 9-14.
- Dell'Acqua F., (2023) *Green Infrastructure e Climate Adaptation Design. Strategie, azioni e soluzioni nature-based per l'adattamento climatico in ambito urbano*, CLEAN, Napoli.

- Zolch, T., Hansen R. et al., (2017), "Nature based solutions and climate change. Four shadows of green", in Kabish N., Korn H., Stadler J, Bonn A. (Eds) *Nature based solution and climate change adaptation in urban areas*, Springer, pp. 29-50.
- Bologna R., Losasso M., Mussinelli E., Tucci F. (2021) (a cura di), *Dai distretti urbani agli ecodistretti. Metodologia di conoscenza, programmi strategici, progetti pilota per l'adattamento climatico*, Maggioli, Santarcangelo di Romagna (RM).
- Losasso, M., Lucarelli, M.T., Rigillo, M., Valente, R. (Eds.), *Adattarsi al clima che cambia. Innovare la conoscenza per il progetto ambientale*, Maggioli, Sant'Arcangelo di Romagna, pp. 273-280.
- Gangemi V. (Ed.) (2001), *Emergenza ambiente. Teorie e sperimentazioni della Progettazione Ambientale*, CLEAN, Napoli.
- Losasso M., Verde, S., (2020), "Strategie progettuali di adattamento urbano ed edilizio in scenari di multirischio ambientale / Design strategies for urban and building adaptation in environmental multi-risk scenario", *AGATHÓN International Journal of Architecture, Art and Design*, No.8, pp. 64-73.
- Losasso M. (2017), "Progettazione ambientale e progetto urbano", *Eco Web Town*, n. 16 - Vol. II, pp. 7-16.
- Ministero dell'Ambiente e della Tutela del Territorio e del Mare (MATTM), Piano Nazionale di Adattamento ai Cambiamenti Climatici PNACC, 2017 Durante il Corso saranno resi disponibili agli allievi tutti i materiali didattici e relativi alle esercitazioni programmate.

TEACHING METHODS OF THE COURSE (OR MODULE)

- a) 60% Lectures of the total amount of the hours
- b) 40% Exercises to deepen applied knowledge

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



COURSE DESCRIPTION BASIC URBAN PLANNING

SSD: URBANISTICA (ICAR/21)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: CASTIGLIANO MARICA
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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: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 6

REQUIRED PRELIMINARY COURSES

-

PREREQUISITES

-

LEARNING GOALS

The course aims at introducing the students to the control of the development of the urban territory and focuses on the evolution of the forms and models of urban settlements through an excursus based on the last two centuries. The chronological narrative unfolds key themes and figures of contemporary urban planning by identifying a perspective that opens to the design of the spaces of the contemporary city.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Students build a background of critical knowledge that is instrumental to understanding –through references, documentation and collective discussions –the origins and evolutions of urban planning up to today. Through the study of theories and models of spatial planning and with a focus on the contribution and influence of the fathers of urban planning on the contemporary age, students analyze the theories, debates, techniques and innovative aspects in the frames of interpretation, planning and design of the city, territory and landscape.

Applying knowledge and understanding

Students develop analytical and critical reading skills regarding the different approaches to the themes of the territory and its transformation with the conceptualization of its models and principles. By gaining this knowledge, students are able to identify the parts, elements, structures and relational systems that define urban, peri-urban and rural landscapes. Students can recognize distinctive characteristics of territories both in relation to the built components and the morphology of the open space.

COURSE CONTENT/SYLLABUS

The course consists of lessons, exercises and collective discussions aiming at two parallel purposes: the first is about a theoretical learning based on the roots of the discipline, its evolution in terms of theories, models and plans, also in relation to the challenges of the contemporary urban planning; the second focuses on approaching the direct knowledge of the Neapolitan territory that represents an exploratory field in which to apply those theoretical notions as tools for a critical reading and interpretation of parts of the city.

The program has four parts:

I. INTRODUCTION TO URBAN PLANNING

The first part aims at introducing the urban planning as a knowledge and practice by tackling the plurality of themes that the discipline deals with and by understanding its multifaceted and changing nature in relation to the changed conditions –from its roots up to today –in the economic, social and environmental dimensions. Other treated topics are: the changes produced by the industrial revolution, the figure of the urban planner and contemporary approaches to the reading and representation of the city.

II. THEORIES AND MODELS OF SPATIAL PLANNING

The second part conceptualises urban planning through spatial planning theories and models of the last two centuries in Europe. The study of the fathers of urban planning, with their work and thoughts, is treated in connection with contemporary perspectives to understand themes and issues of the today's city. Some of the themes explored are: the phenomenology of urban expansion with the transformation of capital cities at the end of the XIX century; Cerdà's theory of spatial equality and the Superblocks of the contemporary Barcelona; the spatial development theory and regional investigation with the figure of Geddes and the role of civic engagement in contemporary planning; Howard's Garden City as a model of spatial equilibrium and the peri-urban landscape in contemporary urban planning; the machine-city of the Modern Movement, the urban planning of CIAM and the zoning as a legacy of this model; the city and the natural environment

from Abercrombie's Greater London Plan to its influences on the plan towards the definition of urban circularity principles.

III. TOOLS AND THEMES OF URBAN PLANNING IN ITALY

The third part frames the instrument of the Plan in the national context since post-war Italy and in relation to the leading figures who have contributed to the evolution of methods and approaches of the discipline.

IV. THE DESIGN OF THE URBAN PLAN AND THE "NEW URBAN QUESTION"

The fourth part focuses on the contemporary urban project starting from the characteristics and criticalities of the territories. It explores how, with the emergence of a "new urban question", which orients the transition of urban systems towards principles of sustainability, equity and inclusion, the methods and techniques of urban planning take adaptiveness, processuality, and openness to uncertainty as characteristics that are a potential for the project.

READINGS/BIBLIOGRAPHY

The reference text is:

Gaeta L., Janin Rivolin U., Mazza L. (2021), *Governo del territorio e pianificazione spaziale*. Citta Studi edizioni, Torino.

Other texts:

Secchi B. (2000). *Prima lezione di urbanistica*. Editori Laterza, Roma.

Secchi B. (2005). *La città del ventesimo secolo*. Editori Laterza, Roma

Tosi M.C. (2017). *Di cosa parliamo quando parliamo di urbanistica?*. Meltemi, Milano.

During the course, a selection of essays, articles and excerpts will be provided to integrate the lessons and the main text.

TEACHING METHODS OF THE COURSE (OR MODULE)

The lessons include moments of one-to-all speech and collective discussions on the topics that have emerged.

At the end of each of the four parts, exercises and collective discussions are planned to be carried out in class. The lessons will use images and reference texts that will be provided to students.

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 course has midterm exercises to track the correct transfer of the program contents.

The final evaluation will take into account the oral test that aims at verifying the understanding of the fundamental notions, the ability to make pertinent connections between the topics and the issues posed by the contemporary world, and the skills acquired by reading the territory chosen as a case study.



COURSE DESCRIPTION ARCHITECTURAL AND URBAN COMPOSITION

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U5515 - LABORATORIO DI FONDAMENTI DEL PROGETTO DI ARCHITETTURA
MODULE: U2384 - COMPOSIZIONE ARCHITETTONICA E URBANA
TEACHING LANGUAGE:
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 6

REQUIRED PRELIMINARY COURSES

Not foreseen

PREREQUISITES

There are no prerequisites

LEARNING GOALS

The aim of the course is to introduce the first year student to the architectural design. The ARCHITECTURAL and URBAN COMPOSITION as characterizing discipline and the MECHANICS AND STRUCTURE MODELING module (which provides knowledge of basic mechanics and modeling), applying them to the design exercise of the lab, contribute to the achievement of this objective.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Theoretical lessons, seminars, site visits and the activities of the Design Studio are the instruments with which the student knows the compositive principles (distributive, typological, morphological and related to the architectural language) on which the architectural project is based together with its different thematic articulations, understanding the relationship with the other disciplines that are part of the construction of the architectural design. Through lectures and exercises, the student also knows the issues related to the structural conception and calculation as integrated elements of the design development in the different areas of its application, understanding the relationship with the other disciplines that are part of the construction of the architectural design.

Applying knowledge and understanding

The student develops, theoretically and methodologically, the capability of structuring the design activity and producing design drawings comparing the different degrees of complexity of the architectural project at different scales. The capability to apply the acquired knowledge in this area is concretized in the laboratory planning activities over the years. The student develops, theoretically and methodologically, the capability of applying the knowledge related to the structural aspects of the architectural design and to produce design documents. With reference to the structural conception, the student develops the capability to critically choose materials, typologies and dimensions of a first calculation to be assigned to the structural system and its elements.

COURSE CONTENT/SYLLABUS

ARCHITECTURAL DESIGN 1 A

THROUGH ARCHITECTURES

A.OBJECTIVES

The course aims to introduce the student to an experimentation through all the phases of which the design process in architecture is composed. Aiming at the decodification of the procedures and praxis of the constructing form process, the course will lead to an initial design experience: an exercise on the patio house, conducted as part of the "Incipit Lab" first-year design workshops, coordinated by the University of Palermo.

B.CONTENTES

The architectural project is understood as the result of a logical path during which a series of choices are rationally made, ordered by a theory. A corpus of theoretical lectures will deepen the thematic aspects, delving into the articulation of the multiple knowledges of which the project is made up: from the relationship with history, to the relationship with the context, investigated in the double form of nature and urban dimension, to the relationship with the typology, to the relationship with the regulations, to the form-function relationship, to the relationships with the technological and plant engineering aspects, up to the technical-structural dimension of the project, seen in particular in relation with the formal conception. The acquisition of elementary

notions (analytical-instrumental field) is proposed to the student mainly through the reading of reference architectures. The architectures are placed at the centre of the cognitive pathway, it is, in fact, through the works that the techniques are exposed, the theories found and the methodologies made explicit. In this way, questions pertaining to the methodological-theoretical field will be explored at the same time as those of the analytical-instrumental sphere, as on the other hand happens in project practice.

C. ARTICULATION

The course is divided into theoretical lectures and project activities to be carried out in the classroom. The theoretical lessons will address two orders of topics: the techniques of making, with the support of manuals, and the composition of form in relation with interdisciplinary aspects. The design activity will be conducted in the form of exercises on the theme of housing. The first exercise will consist of a thematic reading of Terragni's *Danteum*, using the redesign and construction of a model as the main tools. The reading will tend to trace the 'hidden structure' in relation to the configuration and quality of the spaces, proportions and measurements. The second exercise will focus on the house of Pompeii. By redrawing the plan and section of the *Domus*, the Vitruvian canons will be applied to discover the proportions of the rooms and represent them in interpretative models. The third exercise will focus on the reading of a contemporary patio house, assigned to the students by the lecturer, a reading that will take the form of drawings and a study model. From the comparison between the *Domus* and the contemporary patio house the compositional principles of the final exercise will be drawn. The exercise involves the drafting of all the graphic works necessary to describe the house: floor plan, plans at various heights, elevations and sections, three-dimensional representation and model. The exercises are individual, drawing exclusively by hand during the entire Design Studio's path.

READINGS/BIBLIOGRAPHY

The theoretical lectures and design exercises will be illustrated, commented and documented by means of specific teaching and bibliographical materials. Particularly relevant will be the consultation of monographic texts on the work of the Masters. The architectures of the Masters will constitute the main bibliographical reference, like a text, of the course.

TEACHING METHODS OF THE COURSE (OR MODULE)

Lectures and exercises. Architectural Design Studio project activities.

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 Architectural Design Studio 1, foresees a single test for the two integrated disciplines. The final grade will be weighted according to the CFUs of each course and will be composed as follows: MECHANICS AND STRUCTURAL MODELLING Module 4CFU 40%, ARCHITECTURAL DESIGN Module 6CFU 60%.



COURSE DESCRIPTION ARCHITECTURAL AND URBAN COMPOSITION

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: VISCONTI FEDERICA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U5515 - LABORATORIO DI FONDAMENTI DEL PROGETTO DI ARCHITETTURA
MODULE: U2384 - COMPOSIZIONE ARCHITETTONICA E URBANA
TEACHING LANGUAGE:
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 6

REQUIRED PRELIMINARY COURSES

Teoria e tecnica della progettazione architettonica

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The aim of the course is to introduce the first year student to the architectural design. The ARCHITECTURAL and URBAN COMPOSITION as characterizing discipline and the MECHANICS AND STRUCTURE MODELING module (which provides knowledge of basic mechanics and modeling), applying them to the design exercise of the lab, contribute to the achievement of this objective.

The aim of the course is to introduce the first year student to the architectural design. The ARCHITECTURAL and URBAN COMPOSITION as characterizing discipline and the

MECHANICS AND STRUCTURE MODELING module (which provides knowledge of basic mechanics and modeling), applying them to the design exercise of the lab, contribute to the achievement of this objective.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Theoretical lessons, seminars, site visits and the activities of the Design Studio are the instruments with which the student knows the compositive principles (distributive, typological, morphological and related to the architectural language) on which the architectural project is based together with its different thematic articulations, understanding the relationship with the other disciplines that are part of the construction of the architectural design.

Through lectures and exercises, the student also knows the issues related to the structural conception and calculation as integrated elements of the design development in the different areas of its application, understanding the relationship with the other disciplines that are part of the construction of the architectural design.

Applying knowledge and understanding

The student develops, theoretically and methodologically, the capability of structuring the design activity and producing design drawings comparing the different degrees of complexity of the architectural project at different scales. The capability to apply the acquired knowledge in this area is concretized in the laboratory planning activities over the years.

The student develops, theoretically and methodologically, the capability of applying the knowledge related to the structural aspects of the architectural design and to produce design documents. With reference to the structural conception, the student develops the capability to critically choose materials, typologies and dimensions of a first calculation to be assigned to the structural system and its elements.

COURSE CONTENT/SYLLABUS

The Design Studio is based on the application of a 'method' that starts from the reflection on the theme, goes through the typological choice as project choice, reflects on the project-context and project-construction relationship, in order to arrive at the definition of the expressive character of the architectural form.

The work in the Studio is organized in two distinct phases: the first concerns the elaboration of the year's theme also passing through the critical redesign of selected references. The second concerns the deeper work on the relationship architecture-construction and, also in a collective form, on the relationship between architecture and context.

A limited number of theoretical lessons will be held in parallel with the phases in which the Design Studio work is articulated in order to make clear to the students the link existing in Architecture between Theory and Praxis. The lessons, therefore, will be around the following general topics: the project as an 'ordered system of choices'; the theme in architecture; the typological choice; the relationship between architecture and context; the relationship between forms of construction and forms of architecture; ways of architectural composition.

READINGS/BIBLIOGRAPHY

BIBLIOGRAPHY

1. A. Rossi, *Architettura per i Musei*, in AA. VV., *Teoria della progettazione architettonica*, Dedalo, Bari 1968.
2. A. Rossi, *Introduzione* a E-L. Boullée, *Architettura. Saggio sull'arte*, Einaudi, Torino 2005.
3. *Dizionario critico illustrato delle voci più utili all'architetto moderno*, a cura di Luciano Semerani, Edizione C.E.L.I., Faenza 1993 (Voci: Tipo di C. Martí Arís, Costruzione di A.R. Burelli, Carattere di E. Mantese).
4. A. Monestiroli, *La metopa e il triglifo*, Laterza, Roma-Bari, 2002.

TEACHING METHODS OF THE COURSE (OR MODULE)

Lectures and exercises. Studio design 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

40% Meccanica e modellazione delle strutture
60% Composizione architettonica e urbana



COURSE DESCRIPTION

MECHANICS AND MODELING OF STRUCTURES

SSD: SCIENZA DELLE COSTRUZIONI (ICAR/08)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: ZUCCARO GIULIO

PHONE: 081-2531023 - 081-2538862 - 081-2538864 - 081-2538925 - 081-2538935 - 081-7683732

EMAIL: giulio.zuccaro@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U5515 - LABORATORIO DI FONDAMENTI DEL PROGETTO DI ARCHITETTURA

MODULE: U5516 - MECCANICA E MODELLAZIONE DELLE STRUTTURE

TEACHING LANGUAGE: ITALIANO

CHANNEL: 01 Cognome A - Z

YEAR OF THE DEGREE PROGRAMME: I

PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II

CFU: 4

REQUIRED PRELIMINARY COURSES

Not foreseen

PREREQUISITES

Not foreseen

LEARNING GOALS

The Module of MECHANICS AND MODELING OF STRUCTURES aims to provide the fundamental concepts of equilibrium and mechanics of structures necessary for the understanding of the basic aspects of structural design, preparatory to subsequent courses related to the analysis of structures.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The module aims to provide students with knowledge and understanding related to the behavior of simple structural systems and the analysis of structures such as truss, beams and simple frames, both in the case of isostatic and hyperstatic systems.

Applying knowledge and understanding

The module aims to provide students with the ability to model simple structural systems and identify their equilibrium conditions, in particular through graphic method, as well as interpretation of structural models of Architecture.

COURSE CONTENT/SYLLABUS

The contents of the course are as follows:

- Vector theory references (0.25 CFU).
- Elements of Kinematics of rigid systems (1 CFU).
- Elements of Geometry of the areas (0.25 CFU).
- Elements of Statics of rigid systems (1 CFU).
- Exercises (1 CFU).

READINGS/BIBLIOGRAPHY

- Notes from lessons
- C. Anselmi. Notes on Structural Theory. Free notes.

TEACHING METHODS OF THE COURSE (OR MODULE)

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 verification of the learning of the contents of the Course will focus on what is exposed in the hours of lesson and exercise, through an oral test.



COURSE DESCRIPTION THEORY OF STRUCTURES

SSD: SCIENZA DELLE COSTRUZIONI (ICAR/08)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (N13)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

TEACHER: BABILIO ENRICO
PHONE: 081-2538032
EMAIL: enrico.babilio@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: 10

REQUIRED PRELIMINARY COURSES

You cannot be admitted taking the exam if you have not passed the Calculus /Geometry exam.

PREREQUISITES

No specific prerequisites are required for understanding the teaching content, but disciplinary knowledge acquired in the Calculus/Geometry course is still very useful

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.

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

Vector theory

1. Scalar and vector quantities
2. Vector algebra
3. Scalar product, vector product, and mixed product
4. Vector basis

Kinematics of rigid bodies

1. Material point. Absolute and relative displacement.
2. Rigid material system
3. Infinitesimal displacements of a rigid body
4. Superposition of effects
5. Independent parameters of an infinitesimal rigid motion
6. Constraints and restraints
7. Beams and mechanical systems
8. Congruence
9. Distortions
10. Graphical solutions

Statics of rigid bodies

1. Laws of Mechanics
2. Equilibrium of a material point and a rigid body
3. The static behavior of constraints
4. Equations of equilibrium
5. Stress characteristics
6. Relationships between load, shear, and moment
7. Graphical solution of equilibrium

Beam theory

1. The beam
2. Definitions of the first and second moment of area
3. Definition of elastic modulus
4. Technical theory of the beam
5. Equation of the extensional and flexural elastic line
6. Mohr's analogy and corollaries

Virtual Works Theorem

1. The theorem of Virtual Works
2. Uses of the Virtual Works theorem.

Solution methods for statically indeterminate elastic structures

1. Force Method (direct writing of the Congruence Equations)
2. Method of Unitary Force Method (VFT)

READINGS/BIBLIOGRAPHY

A. Anselmi, Appunti di Statica, reperibile presso la copisteria Luda di Cirelli D. (SAS) in Via Sant'Anna dei Lombardi, 14 80134, Napoli;
A. Anselmi, Appunti di Teoria delle Strutture, Luda;
C. Ceraldi, L. Dodaro, M. Lippiello, Meccanica dei sistemi rigidi, Aracne editrice;
C. Ceraldi, L. Dodaro, M. Lippiello, Esercizi di Meccanica dei sistemi rigidi, Luda

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is taught with lectures that cover all topics included in the syllabus, from both theoretical and applied perspectives. Students may ask for further clarification during the office hours.

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 result of the exam will depend on achieving a minimum passing mark (18/30) in both tests, written and oral, and the final score will be equal to their arithmetic mean.



COURSE DESCRIPTION MECHANICS AND MODELING OF STRUCTURES

SSD: SCIENZA DELLE COSTRUZIONI (ICAR/08)

DEGREE PROGRAMME: SCIENZE DELL'ARCHITETTURA (D05)
ACADEMIC YEAR 2023/2024

COURSE DESCRIPTION

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

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U5515 - LABORATORIO DI FONDAMENTI DEL PROGETTO DI ARCHITETTURA
MODULE: U5516 - MECCANICA E MODELLAZIONE DELLE STRUTTURE
TEACHING LANGUAGE: ITALIANO
CHANNEL: 03 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 4

REQUIRED PRELIMINARY COURSES

None

PREREQUISITES

None

LEARNING GOALS

The Module of MECHANICS AND MODELING OF STRUCTURES aims to provide the fundamental concepts of equilibrium and mechanics of structures necessary for the understanding of the basic aspects of structural design, preparatory to subsequent courses related to the analysis of structures.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

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- Exercises (1 CFU).

READINGS/BIBLIOGRAPHY

- Notes from lessons
- C. Anselmi. Notes on Structural Theory. Free notes.

TEACHING METHODS OF THE COURSE (OR MODULE)

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 verification of the learning of the contents of the Course will focus on what is exposed in the hours of lesson and exercise, through an oral test.