COURSE DESCRIPTION
HISTORY OF CONTEMORARY ARCHITECTURE

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: MENNA GIOVANNI
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0730 - STORIA DELL'ARCHITETTURA CONTEMPORANEA-STORIA DELL'ARCHITETTURA E DELL'ARTE
MODULE: 10671 - STORIA DELL'ARCHITETTURA CONTEMPORANEA
CHANNEL: 01 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

None

LEARNING GOALS

The aim of the course is to introduce the themes of the history of architecture and contemporary art in Europe, in Italy and in other countries where there have been significant productions and innovations, presenting buildings and protagonists that characterized them.
The course consists of the History of contemporary architecture (8 CFU) the History of contemporary architecture - History of architecture and art (4 CFU) modules.
The History of contemporary architecture module traces the most emblematic events of the architectural scenario starting from the Industrial Revolution up to the XXI century, deepening buildings and projects that have represented reference paradigms. These will be analyzed in

relation to the social and cultural context and the relationship between design and execution. Furthermore, the student will be taught basic and methodological notions such as: definition, meaning and value of architecture; history and historiography, cornerstones of historiography

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Through theoretical lessons and on-site visits, the student knows the history and theory of architecture and understands its relationship with the architectural project in different times and places. The knowledge and understanding of the history of architecture derives from in-depth studies related to the analysis of architectural cultures and design processes, to the reading of types, forms, systems and construction techniques, of architectural languages.

Applying 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 historical buildings, the conservation and restoration project.

COURSE CONTENT/SYLLABUS

Part I

“News from Newhere”: England (1836-1924). The School of Chicago. Adler and Sullivan: l’Auditorium and the Skyscraper (1886-95). F. Lloyd Wright: from the mith of Prairie to “The Disappearing City”. From Viollet-le-Duc to Horta. Art Nouveau: general features and national articulations. Architetcture and City: the magisterium of H.P. Berlage and O. Wagner. C. R. Mackintosh e the School fo Glasgow (1896-1916). Henry van de Velde: Einfuhlung and Abstraction.. Ver Sacrum in Wien: Wagner, Olbrich e Hoffmann.

Part II

Antonio Sant’Elia and the futuristic architecture. Against Secession: Adolf Loos. Tony Garnier : the “Cité Industrielle” (1899-1918). Auguste Perret: evolution of a “classical” rationalism. The Deutsche Werkbund and the work of Peter Behrens. Bauhaus: a critical history. Espressionist architecture in Europe (1910-25). The architects of ‘De Stijl’: evolution and dissolution of Neoplasticism. Dudok, Oud, Van Eesteren. The “Neue Sachlichkeit”: Germany, Holland, Switzerland. The New Collectivity: art and architecture in USSR. Architectcture in Italy beetwen the Wars.

Part III

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

Part IV:

The vicissitudes of ideology: from CIAM to Team X (1928-68). National articulations of contemporary architecture in Europe and America 1946-99

READINGS/BIBLIOGRAPHY

- Main Reference Manual:
1) Kenneth Frampton, *History of modern architecture*, Zanichelli, Bologna, last edition: 2022.
-The insights into the key works indicated in the program are in:
2) Marco Biraghi, A. Ferlenga, *Architecture of the Twentieth Century*, vol. II and vol. III, Einaudi, Turin 2013
- The graphic documentation relating to principal buildings is in :
3) Richard Weston, *Twentieth Century Milestones. Plans, sections, elevations. Vol. 1*, Logos, Modena 2004
Bibliographic indications for any further needs for further study will be provided to the course.
Not all chapters of these volumes are included in the exam program: 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)

Lectures seminars, on site visits, and anything else to elaborate some specific themes List tools for teaching delivery: recorded lectures, multimedia, software, on line material, etc..

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☑ Oral
- ☐ Project discussion
- ☑ Other : The final vote will be fixed according the following parameters :
  knowledge of topics part I from 0 to 06 points
  knowledge of topics part II from 0 to 11 points
  knowledge of topics part III from 0 to 11 points
  knowledge of topics part IV from 0 to 02 points
  total 30 points

In case of a written exam, questions refer to

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

b) Evaluation pattern

COURSE DESCRIPTION
HISTORY OF CONTEMORARY ARCHITECTURE

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: CASTAGNARO ALESSANDRO
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0730 - STORIA DELL'ARCHITETTURA CONTEMPORANEA-STORIA DELL'ARCHITETTURA E DELL'ARTE
MODULE: 10671 - STORIA DELL'ARCHITETTURA CONTEMPORANEA
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

No

PREREQUISITES

No

LEARNING GOALS

The objective of the teaching is to introduce the theme of the history of contemporary architecture in Europe, in Italy and in other countries in which there have been significant productions and innovations. The course traces the most emblematic events starting from the industrial revolution up to the 21st century, deepening authors and projects that have represented the paradigms of reference. Furthermore, the student will be taught basic notions such as: meaning and value of architecture, history and historiography, reservoir-envelope, cornerstones of historiography and historiographic artifices.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must demonstrate knowledge and understanding of the problems relating to modern architectural events. Starting from the notions transmitted, he must demonstrate that he is able to elaborate arguments and face debates on the subject. The training course aims to convey to students the necessary knowledge and methodological tools necessary for research and historical-critical analysis of architecture.

Applying knowledge and understanding

At the end of the course, the student will have acquired the methodology necessary to read the historical stratification of an artifact and its relationship with the context, knowing its origins. The student will also be able to analyze and perceive the intangible values of architectural works by exploiting the skills acquired in the field of conservation and enhancement of assets.

COURSE CONTENT/SYLLABUS

The dawn of the contemporary: from the second half of the nineteenth century to the "precursors": Historicist Eclecticism and the Architecture of Engineering; The origins of the modern movement; The Chicago School; The Art Nuoveau; August Schmarsow and the Raumgestaltung; Protorationalism; The figurative avant-gardes.
The Modern Movement: avant-garde architecture and the work of the "masters": Architectural Expressionism; Neoplastic architecture (De Stijl 1917-31); Walter Gropius and the Bauhaus; The rationalist code: the "first CIAM" and the Klein case; The thought and work of Le Corbusier; The thought and work of Mies van der Rohe; Organic architecture (I): the thought and work of Frank Lloyd Wright; Organic architecture (II): the thought and work of Alvar Aalto.
Italian Architecture: from Rationalism to the Second World War: Rationalism in Italy between the two wars; The great exhibitions of the 1930s in Rome and Naples.
After the Modern Movement: from the postwar period to the Eighties: The crisis of Rationalism; The architecture of the second post-war period in Italy; Fifties-sixties: Brutalism, the poetics of large dimensions and utopian architecture; Sixties-Seventies: the Trend or the line of autonomy; Seventies-Eighties: High Tech, Postmodern and Deconstructivism; Building in the built.

READINGS/BIBLIOGRAPHY

R. De Fusco, *Storia dell'architettura contemporanea*, Laterza, Roma-Bari (edizioni varie, oggi ristampato in nuova edizione da Progedit con il titolo *Storia dell'architettura del XX secolo*);
A. Muntoni, *Lineamenti di storia dell'architettura contemporanea*, Laterza, Roma-Bari 1997.
Per approfondimenti:
A. Castagnaro, *Verso l'architettura contemporanea*, Paparo Edizioni, Napoli 2012;
R. De Fusco, C. Lenza, *Le nuove idee di architettura. Storia della critica del secondo Novecento,* Progedit, Bari 2015;
A. Castagnaro, *August Schmarsow dalla critica d'arte contemporanea alla Raumgestaltung*, Progedit, Bari 2017;

A. Castagnaro, *Napoli e la cultura architettonica internazionale (1974-1991). Mostre e convegni di Camillo Gubitosi e Alberto Izzo*, Clean, Napoli 2019.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will carry out all the lectures using Power Point presentations and archival films.

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 final evaluation will be weighted on the CFU of the single courses.

COURSE DESCRIPTION
HISTORY OF CONTEMORARY ARCHITECTURE

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: VISONE MASSIMO
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0730 - STORIA DELL'ARCHITETTURA CONTEMPORANEA-STORIA DELL'ARCHITETTURA E DELL'ARTE
MODULE: 10671 - STORIA DELL'ARCHITETTURA CONTEMPORANEA
CHANNEL: 03 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

None, but a good cultural curiosity about ancient and modern art history is welcome

LEARNING GOALS

The aim of the course is to introduce students to contemporary themes in the history of architecture in Italy, Europe and the main extra-continental realities, with particular attention to the fundamental works that have marked the architectural culture of the last century. The course traces the most emblematic events from the Industrial Revolution to the year 21th century. The course aims to provide interpretative and critical tools to learn how to read the city and architecture from a historical perspective, extending the principle of built heritage to contemporary architecture. Works and ideas that have represented paradigms of reference for generations of architects will be explored, analysed in relation to the historical, social and cultural context and the relationship

between design and execution. Furthermore, basic notions, both historical and methodological, will be transmitted, such as those of: definition, meaning and value of architecture; history and historiography.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Student has to demonstrated to:

1) know and be able to understand the issues related to the recognition of significant events within the complex framework of the birth and development of modern design culture.

2) to be able to elaborate even complex discussions concerning the specific language of architecture and art on the basis of the notions learnt concerning the relations between architecture and the visual arts on the one hand, and the urban issues on the other.

Applying knowledge and understanding

You must demonstrate that you are able to acquire the methodology to:

1) reconstruct the historical stratification of an artefact with the contextual recognition of the values and meanings considered essential for the purposes of protection and conservation or its eventual transformation.

2) know the place, its original features, its history and its relations with the communities that inhabit it on a social and cultural level.

COURSE CONTENT/SYLLABUS

Introduction to the study of the History of modern and contemporary architecture; Sources, methodologies and historiographical outlines of the 20th century; The way to modernity: theories, projects and constructions between the 18th and 19th centuries (France, Great Britain, Germany, Italy and USA); The 19th century city: Paris, London, Vienna, Chicago; Architecture and the city in post-unification Italy; Art Nouveau (Belgium, Spain, France, Holland, Scotland, Austria, Italy); Frank Lloyd Wright: From the beginnings to the Prairie Houses; The artistic avant-gardes in Europe; The season of the modern: manifestos and utopias between the two wars; Words in a vacuum: Adolf Loos; Architecture and industry: Behrens and Gropius; Architecture and concrete: Garnier and Perret; The artistic and aesthetic theories at the end of the 19th century and the figure of Gottfried Semper; The city in the 19th century: Vienna and the Ringstrasse; Le Corbusier: the work up to the Second World War and the post-war phase; German Expressionism: empathy and spiritualism; De Stijl and the Dutch avant-garde; The Bauhaus: didactics and praxis of architecture; Soviet Constructivism and the New Objectivity; Ludwig Mies van der Rohe between Europe and America; The architecture of the twenty-year fascist period in Italy and Naples; Scandinavian architecture from National Romanticism to Alvar Aalto; The work of Wright: the mature phase; The International Style: from the 1932 exhibition to the global phenomenon; The American scene: Kahn, Venturi and the New York Five; English New Brutalism and High Tech; Post-war Italian architecture: from reconstruction to boom; The architecture of utopia between Europe and Japan; Postmodernism; The season of Deconstructivism from 1988 to the present; The Swiss scene: Mario Botta, Herzog &De Meuron, Peter Zumthor; Post-war Neapolitan architecture.

READINGS/BIBLIOGRAPHY

Kenneth Frampton, Modern Architecture. A Critical History, Thames &Hudson, London, 2020
Elena Dellapiana, Guido Montanari, Una storia dell'architettura contemporanea, Torino, Utet, 2015
Marco Biraghi, Storia dell'architettura contemporanea, 2 voll., Einaudi, Torino 2008
For course participants, ppts articulating the lectures and any bibliographical supplements will be provided.

TEACHING METHODS OF THE COURSE (OR MODULE)

Professor will conduct all lectures using Power Point presentations, archive footage and field trips. In addition, students may be asked to prepare papers on topics chosen from the syllabus in order to deepen the topics covered.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [ ] Written
- [x] 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 aims to train in the student an ability to read the principles of contemporary architecture in relation to the historical-cultural context. During the examination, which will take the form of an oral test, the student's aptitude for analysing the architectural work and his or her language skills will therefore be assessed, together with the ability to anchor the historical-architectural analysis to precise general historical coordinates and the capacity for critical synthesis.
The oral examination will take place on the same date as the integrated module of History of Architecture and Art and, in order to pass, the student must achieve a pass mark in both modules. The final grade will be weighted according to the CFUs of each course and will be composed as follows: HISTORY OF CONTEMPORARY ARCHITECTURE MODULE (8 CFU); HISTORY OF ARCHITECTURE AND ART MODULE (4 CFU).

COURSE DESCRIPTION
ARCHITECTURE'S HYSTORY AND OF ART

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: VITOLO PAOLA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0730 - STORIA DELL'ARCHITETTURA CONTEMPORANEA-STORIA DELL'ARCHITETTURA E DELL'ARTE
MODULE: U0727 - STORIA DELL'ARCHITETTURA E DELL'ARTE
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 4

REQUIRED PRELIMINARY COURSES

None

PREREQUISITES

Basic knowledge of ancient and medieval history and geography

LEARNING GOALS

The course aims to train the student in the ability to read the structural, aesthetic and formal principles of ancient and medieval architecture in relation to the more general historical-cultural contexts as well as the system of relationships that those monuments have established over time with the landscape and urban stratifications. The student will develop a method of critical analysis of architecture, in particular will learn about:

- Categories necessary to analyze structures in relation to the function, construction systems and materials

- principles of evaluation of the various factors (environmental, symbolic, etc.) which determine aesthetic and structural choices and solutions
- the relationships of architecture with the pictorial and sculptural elements
- the social aspects related with architecture
- appropriate vocabulary
- the dynamics that determine the perception and the possible reuse and re-adaptation of the architecture

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The course aims to train the student to read the structural, aesthetic and formal principles of ancient and medieval architecture up to the Gothic age, enabling him/her to recognize, historically place and critically evaluate the major architecture of antiquity and the medieval era in relation to the contexts and social dynamics of the periods under examination.

Applying knowledge and understanding

At the end of the course, the student will have acquired the methodology necessary to read the historical stratification of an artifact and its relationship with the context, knowing its origins. The student will also be able to analyze and perceive the intangible values of architectural works by exploiting the skills acquired in the field of conservation and enhancement of assets.

COURSE CONTENT/SYLLABUS

History of ancient and medieval architecture
- Periodization
- Architecture and palimpsest
- Architecture as a "complex system": integration with sculptural and pictorial elements. Color
- The workshop: the architect, the workers, the organization, the materials
- Greek architecture and architectural orders
- Greek architecture from the classical to the hellenistic age
- Roman architecture from the republican to the imperial age
- Early Christian and Byzantine architecture
- Seminar: The basilica of San Giovanni in Laterano from the early Christian age to Borromini
- Romanesque architecture
- Seminar: Romanesque Puglia
- Gothic architecture
- Seminar: Giotto and the Upper Basilica of Assisi
- Naples, the ancient and the medieval city

READINGS/BIBLIOGRAPHY

David Watkin, *Storia dell'architettura occidentale*, Zanichelli 2016, chapters 2-3-4-5
Slides presented during the course

TEACHING METHODS OF THE COURSE (OR MODULE)

The course will present overall historical frames and in-depth analysis of monuments that are emblematic of an era or a way of building. The cases presented will analyze issues relating to the formal and technical-construction aspects and will be contextualized in relation to the patrons, the organization of the workshops and the workers involved, and the purposes of use.
The lectures will be integrated by seminars and guided tours. The course slides will be made available to students. Seminars, tours and slides are integral part of the course material to be studied for the exam.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [ ] Written
- [x] Oral
- [ ] Project discussion
- [ ] Other

In case of a written exam, questions refer to

- [ ] Multiple choice answers
- [ ] Open answers
- [ ] Numerical exercises

b) Evaluation pattern

During the oral exam the student's aptitude for critical analysis and language properties will be examinated, together with the ability to anchor the artistic fact to precise general historical coordinates.

COURSE DESCRIPTION
ARCHITECTURAL DRAWING

SSD: DISEGNO (ICAR/17)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: FLORIO RICCARDO
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 9

REQUIRED PRELIMINARY COURSES

No propaedeutic teaching is provided.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The Architecture Drawing course aims to introduce the reading and graphic representation 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 design culture. The teaching aims to provide students with the basic notions of Architecture Drawing so that they can responsibly control subsequent in-depth studies.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The Drawing of Architecture, articulated in freehand sketches, technical drawing and infographic drawing, configures the architect's own language. The graphic experimentation carried out during the course is aimed at gradually enriching the student's expressive capacities and at the same time introducing him/her to the understanding of spaces, the evaluation of form, the verification of construction practices, the appropriation of signs and codes related to the various themes and scales of representation, in view of the final objective of the elaboration of the project. The student must demonstrate to govern the explorative process of architecture at the various scales by means of Drawing, in its double meaning of instrument of critical reading and of graphic and infographic language applied to the knowledge of Architecture and to the design process, from the formation of the idea and its mental prefiguration up to its graphic restitution, through the scientific methods of the Science of representation.

Applying knowledge and understanding

The student develops the capacity 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 various articulations and at the various scales. These skills, which will be applied and articulated within the Architecture Drawing course and the Design, Construction, Urban Planning and Restoration laboratories, will also be expressed by the student in innovative ways.

Autonomy of judgement: The student must demonstrate control over the process of representation of both architecture and the city and the environment, through critical awareness in the evaluation and presentation of the expected results and the ability to autonomously express new forms of graphic expression and representation of the knowledge acquired.

Communication skills: The student must be able to argue in a clear and mature manner the knowledge acquired, be able to present in comprehensible language and respectful of technical terminologies the results achieved both during the course and at the final examination. He/she must demonstrate that he/she has learnt with awareness of the founding principles of the discipline and of the scientific methods with respect to which he/she is called upon to provide evidence, by means of oral discussion and presentation of the papers provided, of the acquisition and control of the methods studied.

Learning ability: The student must make manifest his or her ability to autonomously elaborate the systematic study of the topics covered, demonstrating that he or she is able to critically consult bibliographic sources, documents, texts and scientific articles that will allow him or her to thesis a progressive autonomy of judgement also within experiences gained in seminars, conferences and collective debates.

COURSE CONTENT/SYLLABUS

The contents of the course aim to build on the progressive approach to the recognition of architecture, starting with the classical orders up to modern architecture, and proceeding to its subsequent representation. The programme addresses the following topics: Representation and interpretation of architecture_Identity and projection: The experience of plan, elevation and section (2 CFU); Birth and codification of architectural drawing_ The triad of plan, elevation and section_ Drawing as a study of classical antiquity (2 CFU); The Renaissance and the invention of

perspective (2 CFU); Morphogenetic structure of the architectural organism_ Geometric matrices and elementary figures of reference_ Relational and proportional devices (2 CFU); Perspective and axonometry as a three-dimensional reading of architectural spatiality (1 CFU).

READINGS/BIBLIOGRAPHY

In addition to the essential and reference bibliography contained in the course syllabus, teaching materials are made available to students on the lecturers' website in the Teaching Materials section. The main reference and recommended texts are as follows: -Jacopo Barozzi da Vignola, *Regole della Prospettiva Prattica*, *con i commentarj di Egnatio Danti*, Venezia MDCCXLIII, ristampa anastatica Arnaldo Forni Editore, Bologna. -Giuseppe A. Boidi-Trotti*, I cinque ordini del Vignola ossia Manuale di Disegno Architettonico,* Torino 1876. -Charles Bouleau, *La geometria segreta dei pittori*, Electa, Milano 1988. -Mario Docci, *Manuale di Disegno architettonico*, Editori Laterza, Roma-Bari 1987. -Kimberly Elam, *Geometry of Design, studies in Proportion and composition*, Princeton architectural Press, New York 2001. -Riccardo Florio*, Christian de Portzamparc. Disegno e forma dell'architettura per la città,* Officina Edizioni, Roma 1996. -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, Teresa Della Corte, *La Rappresentazione dello spazio domestico 1, Dieci interpretazioni dell'abitazione contemporanea,* Officina Edizioni, Roma 2008. -Riccardo Florio, Vincenzo De Biase, *La Rappresentazione dello spazio domestico 2, Dieci interpretazioni dell'abitazione contemporanea*, Officina Edizioni, Roma 2009. -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. Seconda edizione 2021. -Matila C. Ghyka, *Le nombre d'Or*, Gallimard, Paris 1931, renouvelé en 1959. -Jacques Guillerme, *La figurazione in architettura*, Franco Angeli, Milano 1982. -Vittorio Magnago Lampugnani*, La realtà dell'immagine Disegni di architettura nel ventesimo secolo*, Edizioni di Comunità, Stoccarda, 1982. -Le Corbusier, *Il Linguaggio delle pietre*, Marsilio, Venezia 1988. -Le Corbusier, *Verso una architettura*, a cura di Pierluigi Cerri e Pierluigi Nicolin, 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. -Erwin Panofsky, *La prospettiva come "forma simbolica",* Feltrinelli, Milano 1992. -Ludovico Quaroni*, Progettare un edificio. Otto lezioni di architettura,* Mazzotta, Milano 1977. -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 particolare il *Libro Primo*). -Wim Wenders, *L'atto di Vedere. The act of Seeing*, Ubulibri, Milano 1992.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teaching method makes use of face-to-face lectures for approximately 50 % of the total hours, exercises and application activities to deepen the theoretical aspects and for the graphic elaboration of drawings for approximately 30 % of the total hours, with an initial phase of manual drawing in the classroom for approximately 20 % of the total hours.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [ ] Written
- [x] Oral
- [ ] Project discussion
- [x] Other : discussion of representative works

In case of a written exam, questions refer to

- [ ] Multiple choice answers
- [ ] Open answers
- [ ] Numerical exercises

b) Evaluation pattern

The assessment method is absolutely 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 (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: DELLA CORTE TERESA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
CHANNEL:
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 9

REQUIRED PRELIMINARY COURSES

No propaedeutic teaching is provided.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The Architecture Drawing course aims to introduce the reading and graphic representation 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 design culture. The teaching aims to provide students with the basic notions of Architecture Drawing so that they can responsibly control subsequent in-depth studies.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The Drawing of Architecture, articulated in freehand sketches, technical drawing and infographic drawing, configures the architect's own language. The graphic experimentation carried out during the course is aimed at gradually enriching the student's expressive capacities and at the same time introducing him/her to the understanding of spaces, the evaluation of form, the verification of construction practices, the appropriation of signs and codes related to the various themes and scales of representation, in view of the final objective of the elaboration of the project. The student must demonstrate to govern the explorative process of architecture at the various scales by means of Drawing, in its double meaning of instrument of critical reading and of graphic and infographic language applied to the knowledge of Architecture and to the design process, from the formation of the idea and its mental prefiguration up to its graphic restitution, through the scientific methods of the Science of representation.

Applying knowledge and understanding

The student develops the capacity 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 various articulations and at the various scales. These skills, which will be applied and articulated within the Architecture Drawing course and the Design, Construction, Urban Planning and Restoration laboratories, will also be expressed by the student in innovative ways.

Autonomy of judgement: The student must demonstrate control over the process of representation of both architecture and the city and the environment, through critical awareness in the evaluation and presentation of the expected results and the ability to autonomously express new forms of graphic expression and representation of the knowledge acquired.

Communication skills: The student must be able to argue in a clear and mature manner the knowledge acquired, be able to present in comprehensible language and respectful of technical terminologies the results achieved both during the course and at the final examination. He/she must demonstrate that he/she has learnt with awareness of the founding principles of the discipline and of the scientific methods with respect to which he/she is called upon to provide evidence, by means of oral discussion and presentation of the papers provided, of the acquisition and control of the methods studied.

Learning ability: The student must make manifest his or her ability to autonomously elaborate the systematic study of the topics covered, demonstrating that he or she is able to critically consult bibliographic sources, documents, texts and scientific articles that will allow him or her to thesis a progressive autonomy of judgement also within experiences gained in seminars, conferences and collective debates.

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 arrives at 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 (2 CFU) - Origins and codification of architectural drawing (2 CFU) - The Renaissance and the invention of

perspective (2 CFU) - Geometric generative matrices of the project, relationships and proportions (2 CFU) - Three-dimensional reading and interpretation of architectural spatiality through perspective and 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 A. Boidi-Trotti*, I cinque ordini del Vignola ossia Manuale di Disegno Architettonico,* Torino 1876.
-Charles Bouleau, *La geometria segreta dei pittori*, Electa, Milano 1988.
-Manlio Brusatin, *Storia delle linee*, Einaudi, Torino 1993.
-Filippo Camerota, *La prospettiva del Rinascimento. Arte, architettura, scienza*, Mondadori Electa 2006.
-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.
-Kimberly Elam, *Geometry of Design, studies in Proportion and composition*, Princeton architectural Press, New York 2001.
-Riccardo Florio (with a contribution by Teresa Della Corte), *Origini evoluzioni e permanenze della classicità in architettura, Un'esperienza di conoscenza disegno e rappresentazione dell'architettura,* Officina Edizioni, First edition, Roma 2004. Second edition 2018.
-Riccardo Florio, *Sul Disegno Riflessioni sul disegno di architettura. About Drawing Reflections about architectural drawing*, Officina Edizioni, Roma 2012.
-Matila C. Ghyka, *Le nombre d'Or*, Gallimard, Paris 1931, renouvelé en 1959.
-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.
-Christof Thoenes, *Sostegno e adornamento. Saggi sull'architettura del Rinascimento: disegni, ordini, magnificenza*, Electa, Milano 1998.
-Vitruvio, *De Architectura*, edited by Pierre Gros, Einaudi, Torino 1997 (in particular *Libro Primo*).
-Wim Wenders, *L'atto di Vedere. The act of Seeing*, Ubulibri, Milano 1992.

TEACHING METHODS OF THE COURSE (OR MODULE)

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 executed drawings

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 (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: CATUOGNO RAFFAELE
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
CHANNEL: 03 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 9

REQUIRED PRELIMINARY COURSES

No propaedeutic teaching is provided.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The Architecture Drawing course aims to introduce the reading and graphic representation 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 design culture. The teaching aims to provide students with the basic notions of Architecture Drawing so that they can responsibly control subsequent in-depth studies.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The Drawing of Architecture, articulated in freehand sketches, technical drawing and infographic drawing, configures the architect's own language. The graphic experimentation carried out during the course is aimed at gradually enriching the student's expressive capacities and at the same time introducing him/her to the understanding of spaces, the evaluation of form, the verification of construction practices, the appropriation of signs and codes related to the various themes and scales of representation, in view of the final objective of the elaboration of the project. The student must demonstrate to govern the explorative process of architecture at the various scales by means of Drawing, in its double meaning of instrument of critical reading and of graphic and infographic language applied to the knowledge of Architecture and to the design process, from the formation of the idea and its mental prefiguration up to its graphic restitution, through the scientific methods of the Science of representation.

Applying knowledge and understanding

The student develops the capacity 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 various articulations and at the various scales. These skills, which will be applied and articulated within the Architecture Drawing course and the Design, Construction, Urban Planning and Restoration laboratories, will also be expressed by the student in innovative ways.

Autonomy of judgement: The student must demonstrate control over the process of representation of both architecture and the city and the environment, through critical awareness in the evaluation and presentation of the expected results and the ability to autonomously express new forms of graphic expression and representation of the knowledge acquired.

Communication skills: The student must be able to argue in a clear and mature manner the knowledge acquired, be able to present in comprehensible language and respectful of technical terminologies the results achieved both during the course and at the final examination. He/she must demonstrate that he/she has learnt with awareness of the founding principles of the discipline and of the scientific methods with respect to which he/she is called upon to provide evidence, by means of oral discussion and presentation of the papers provided, of the acquisition and control of the methods studied.

Learning ability: The student must make manifest his or her ability to autonomously elaborate the systematic study of the topics covered, demonstrating that he or she is able to critically consult bibliographic sources, documents, texts and scientific articles that will allow him or her to thesis a progressive autonomy of judgement also within experiences gained in seminars, conferences and collective debates.

COURSE CONTENT/SYLLABUS

The course in its entirety aims to introduce students to the fundamentals of architectural representation, educating them in the reading of images. It will proceed from the study of the classical Orders to the depiction of modern architecture, and then proceed to its subsequent representation.

The programme addresses the following topics:

Representation and interpretation of architecture_Identity and projection: The experience of plan,

elevation and section (2 CFU);
Birth and codification of architectural drawing_ The triad of plan, elevation and section_ Drawing as a study of classical antiquity (2 CFU);
The Renaissance and the invention of perspective (2 CFU);
Morphogenetic structure of the architectural organism_ Geometric matrices and elementary figures of reference_ Relational and proportional devices (2 CFU);
Perspective and axonometry as a three-dimensional reading of architectural spatiality (1 CFU).

READINGS/BIBLIOGRAPHY

In addition to the essential and reference bibliography contained in the course syllabus, teaching materials are made available to students on the lecturers' website in the Teaching Materials section.
The main reference and recommended texts are as follows:
- Jacopo Barozzi da Vignola, *Regole della Prospettiva Prattica*, *con i commentarj di Egnatio Danti*, Venezia MDCCXLIII, ristampa anastatica Arnaldo Forni Editore, Bologna.
- Giuseppe A. Boidi-Trotti*, I cinque ordini del Vignola ossia Manuale di Disegno Architettonico,* Torino 1876.
- Charles Bouleau, *La geometria segreta dei pittori*, Electa, Milano 1988.
- Mario Docci, *Manuale di Disegno architettonico*, Editori Laterza, Roma-Bari 1987.
- Kimberly Elam, *Geometry of Design, studies in Proportion and composition*, Princeton architectural Press, New York 2001.
- Riccardo Florio*, Christian de Portzamparc. Disegno e forma dell'architettura per la città,* Officina Edizioni, Roma 1996.
- 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, Teresa Della Corte, *La Rappresentazione dello spazio domestico 1, Dieci interpretazioni dell'abitazione contemporanea,* Officina Edizioni, Roma 2008.
- Riccardo Florio, Vincenzo De Biase, *La Rappresentazione dello spazio domestico 2, Dieci interpretazioni dell'abitazione contemporanea*, Officina Edizioni, Roma 2009.
- 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. Seconda edizione 2021.
- Matila C. Ghyka, *Le nombre d'Or*, Gallimard, Paris 1931, renouvelé en 1959.
- Jacques Guillerme, *La figurazione in architettura*, Franco Angeli, Milano 1982.
- Vittorio Magnago Lampugnani*, La realtà dell'immagine Disegni di architettura nel ventesimo secolo*, Edizioni di Comunità, Stoccarda, 1982.
- Le Corbusier, *Il Linguaggio delle pietre*, Marsilio, Venezia 1988.
- Le Corbusier, *Verso una architettura*, a cura di Pierluigi Cerri e Pierluigi Nicolin, 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.
- Erwin Panofsky, *La prospettiva come "forma simbolica",* Feltrinelli, Milano 1992.
- Ludovico Quaroni*, Progettare un edificio. Otto lezioni di architettura,* Mazzotta, Milano 1977*.*
- 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 particolare il *Libro Primo*).
- Wim Wenders, *L'atto di Vedere. The act of Seeing*, Ubulibri, Milano 1992.
- Giacomo Barozzi da Vignola, *Regola delli cinque ordini d'architettura*, ristampa anastatica dell'edizione del 1607, Arnaldo Forni Editore, Bologna 1988.
- Raffaele Catuogno, *Disegno e geometria nell'opera di Antoni Gaudì.* Giannini, Napoli 2012.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teaching method makes use of face-to-face lectures for approximately 50 % of the total hours, exercises and application activities to deepen the theoretical aspects and for the graphic elaboration of drawings for approximately 30 % of the total hours, with an initial phase of manual drawing in the classroom for approximately 20 % of the total 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

COURSE DESCRIPTION
ARCHITECTURAL DRAWING

SSD: DISEGNO (ICAR/17)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: DURSI ATTILIO
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
CHANNEL:
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 9

REQUIRED PRELIMINARY COURSES

No propaedeutic teaching is provided.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The Architecture Drawing course aims to introduce the reading and graphic representation 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 design culture. The teaching aims to provide students with the basic notions of Architecture Drawing so that they can responsibly control subsequent in-depth studies.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The Drawing of Architecture, articulated in freehand sketches, technical drawing and infographic drawing, configures the architect's own language. The graphic experimentation addressed during the course aims to gradually enrich the student's expressive abilities and at the same time to introduce him/her to the comprehension of spaces, to the evaluation of form, to the verification of construction practices, to the appropriation of signs and codes related to the various themes and scales of representation, in view of the final objective of the elaboration of the project.
The student must demonstrate to govern the process of exploring architecture at the various scales by means of Drawing, in its twofold meaning of instrument of critical reading and of graphic and infographic language applied to the knowledge of Architecture and to the design process, from the formation of the idea and its mental prefiguration up to its graphic restitution, through the scientific methods of the Science of representation.

Applying knowledge and understanding
Ability to apply 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 various articulations and at the various scales. These skills, which will be applied and articulated within the Architectural Design course and the Design, Construction, Urban Planning and Restoration workshops, will also be expressed by the student in innovative ways.
Autonomy of judgement:
The student must demonstrate control over the process of representation of both architecture and the city and environment, through critical awareness in the evaluation and presentation of expected results and the ability to autonomously express new forms of graphic expression and representation of acquired knowledge.
Communication skills:
The student must be able to argue in a clear and mature manner the knowledge acquired, be able to present in comprehensible language and respectful of technical terminologies the results achieved both during the course and at the final examination. He/she must demonstrate that he/she has learnt with awareness of the founding principles of the discipline and of the scientific methods with respect to which he/she is called upon to provide evidence, by means of oral discussion and presentation of the papers provided, of the acquisition and control of the methods studied.
Learning capacity:
The student must make manifest his or her ability to autonomously elaborate the systematic study of the topics covered, demonstrating the ability to critically consult bibliographic sources, documents, texts and scientific articles that will allow him or her to thesisise a progressive autonomy of judgement also within experiences gained in seminars, conferences and collective debates.

COURSE CONTENT/SYLLABUS

The main objective of the course content is the acquisition of the ability to imagine and control forms in space. In this first phase, freehand drawing and classical drawing tools will be used,

following a study path that starts from the architectural orders and arrives at the themes of modern and contemporary architecture, dealing specifically with the following topics Interpretation and transcription of architecture. Projections: the plan, the elevation and the section (2 CFU) - Origins and codification of architectural drawing (2 CFU) - The Renaissance and the invention of perspective (2 CFU) - Geometric generative matrices of the project, relationships and proportions (2 CFU) - Three-dimensional reading and interpretation of architectural space through perspective and axonometry (1 CFU).

READINGS/BIBLIOGRAPHY

La bibliografia essenziale e di riferimento contenuta nel programma del corso (testi principale e testi consigliati)è riportata di seguito; essa viene integrata durante gli sviluppi del corso da materiali di supporto scaricabili dal sito web istituzionale della docente e raccolti nella cartella Materiale didattico. - Edwin Abbott, Flatlandia. Racconto fantastico a più dimensioni, Adelphi Edizioni, Milano 1966. -Giacopo Barozzi da Vignola, *Regoa delli cinque ordini d'architettura. Ristampa anastatica dell'edizione del 1607, Arnaldo Forni Editore, Bologna 1988* -Giuseppe A. Boidi-Trotti*, I cinque ordini del Vignola ossia Manuale di Disegno Architettonico,* Torino 1876. - Charles Bouleau, *La geometria segreta dei pittori*, Electa, Milano 1988. Manlio Brusatin, Storia delle linee, Einaudi, Torino 1993. - Filippo Camerota, La prospettiva del Rinascimento. Arte, architettura, scienza, Mondadori Electa 2006. - Teresa Della Corte, *Declinazioni della trasparenza in architettura. Una indagine sulla complessità attraverso la differenza/Declinations of transparency in architecture. A surveyaboutcomplexitythrough the difference*, Officina Edizioni, Roma 2020. - 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. - Kimberly Elam, *Geometry of Design, studies in Proportion and composition*, Princeton architectural Press, New York 2001. -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, Teresa Della Corte, *La Rappresentazione dello spazio domestico 1, Dieci interpretazioni dell'abitazione contemporanea,* Officina Edizioni, Roma 2008. -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. - 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. -ChristofThoenes, *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 particolare il *Libro Primo*). -Wim Wenders, *L'atto di Vedere. The act of Seeing*, Ubulibri, Milano 1992. In addition to the essential and reference bibliography contained in the course syllabus, teaching materials are made available to students on the lecturers' website in the Teaching Materials section. The main reference and recommended texts are as follows:

TEACHING METHODS OF THE COURSE (OR MODULE)

The teaching organisation makes use of theoretical lectures (approx. 50 % of the total hours) and application activities for drawing (approx. 30 % of the total hours) preceded by a manual drawing phase in the classroom (approx. 20 % of the total hours) from which the experiential route starts.

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

a) Examination methods: The outcomes of the learning experience will be assessed with reference to the acquisition of knowledge on the topics covered in the course and based on the skills assimilated and demonstrated in interpreting and representing architecture.

COURSE DESCRIPTION
CALCULUS 1

SSD: ANALISI MATEMATICA (MAT/05)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: CAVALLO BICE
PHONE: 081-2538978
EMAIL: bice.cavallo@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 01281 - ANALISI MATEMATICA I E GEOMETRIA
MODULE: 12980 - ANALISI MATEMATICA 1
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

No one

PREREQUISITES

Good knowledge of mathematics as scheduled in programs of all upper secondary schools.

LEARNING GOALS

The main objective of the course is the acquisition, by the student, of the logical-mathematical skills necessary to face future professional problems. From the point of view of contents, the course aims to provide the mathematical foundations necessary for the study of the scientific subjects of the master's degree course in architecture and their applications. The acquired training must allow students to be able to perform simple calculations, to be able to solve simple equations, inequalities, linear systems; to be able to carry out the study of real functions of a real variable and, finally, to be able to solve geometric questions potentially useful for the development

of design skills.
The course represents a module of Calculus 1 and Geometry course, which in fact consists of the following modules:
1. Calculus 1 (MAT / 05 - 8 CFU);
2. Geometry (MAT / 03 - 3 CFU).

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must show knowledge and understanding of basic elements of Mathematics and the mathematical language. The educational path of the course aims to provide students with the knowledge and basic methodological tools necessary for strengthening logical, inductive and deductive reasoning skills.

Applying knowledge and understanding

The student will have to show that he is able to use mathematical tools for the formalization of problems and the construction of simple mathematical models. The student must acquire the operational skills necessary to apply the study of the real functions of a real variable, the methods of solving equations, inequalities and linear systems and the knowledge of vectors and matrices both to theoretical-practical questions and to applicative problems of geometric nature.

COURSE CONTENT/SYLLABUS

REAL NUMBERS: Set theory - Natural, integer, rational, real numbers - Maximum, minimum, upper bound, lower bound. Exercises.

REAL FUNCTIONS: Cartesian functions and representation - Invertible functions - Monotone functions - Linear functions - Absolute value function - Power, root, exponential, logarithm functions - Trigonometric functions and their inverses. Exercises.

INEQUALITIES, DOMAIN OF A FUNCTION: First degree equation and inequality - Second degree equation and inequality - Rational inequalities - Exponential and logarithmic inequalities - Domain of a function. Exercises.

LIMITS OF FUNCTIONS AND CONTINUOUS FUNCTIONS: Definitions - Examples and properties of function limits - Continuous functions - Discontinuity - Some theorems on continuous functions: sign permanence theorem (with proof), existence of intermediate values theorem (with proof), theorem of the existence of zeros, Weierstrass theorem. Exercises.

DERIVATIVES: Definition of derivative - Every derivable function in x is continuous in x (proof) - Operations with derivatives: derivative of the sum, product and ratio - Derivation rule of compound functions - Derivatives of elementary functions (proof for the function constant, for the power function with natural exponent) - Higher order derivatives - Geometric meaning of the derivative. Exercises.

APPLICATIONS OF THE DERIVATIVES: Increasing and decreasing functions - Relative maximum and minimum - Concavity and inflection point - Asymptotes and symmetry - Absolute

maximum and minimum - Rolle's theorem (with proof) and Lagrange's theorem (with proof) - Monotony criterion - Forms indeterminate and L 'Hôpital theorem - Study of the graph of a function.

INTEGRALS: Primitive functions - Indefinite integrals - Definite integrals - Fundamental theorem of Calculus - Exercises.

READINGS/BIBLIOGRAPHY

1. P. Marcellini, C. Sbordone, Elementi di Calcolo, Liguori Editore.
2. P. Marcellini, C. Sbordone, Esercitazioni di matematica, I Volume (parte prima e parte seconda), Liguori Editore.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use lectures for about 70% of the total hours and exercises, to deepen theoretical aspects, for about 30% of the total hours.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [x] Written
- [x] Oral
- [ ] Project discussion
- [ ] Other

In case of a written exam, questions refer to

- [x] Multiple choice answers
- [x] Open answers
- [x] Numerical exercises

b) Evaluation pattern

COURSE DESCRIPTION
CALCULUS 1

SSD: ANALISI MATEMATICA (MAT/05)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: FIORENZA ALBERTO
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EMAIL: alberto.fiorenza2@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 01281 - ANALISI MATEMATICA I E GEOMETRIA
MODULE: 12980 - ANALISI MATEMATICA 1
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

No one

PREREQUISITES

Good knowledge of mathematics as scheduled in programs of all upper secondary schools

LEARNING GOALS

The main objective of the course is the acquisition, by the student, of the logical-mathematical skills necessary to face future professional problems. From the point of view of contents, the course aims to provide the mathematical foundations necessary for the study of the scientific subjects of the master's degree course in architecture and their applications. The acquired training must allow students to be able to perform simple calculations, to be able to solve simple equations, inequalities, linear systems; to be able to carry out the study of real functions of a real variable and, finally, to be able to solve geometric questions potentially useful for the development of design skills.

The course represents a module of Calculus 1 and Geometry course, which in fact consists of the following modules:
1. Calculus 1 (MAT / 05 - 8 CFU);
2. Geometry (MAT / 03 - 3 CFU).

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must show knowledge and understanding of basic elements of Mathematics and the mathematical language. The educational path of the course aims to provide students with the knowledge and basic methodological tools necessary for strengthening logical, inductive and deductive reasoning skills.

Applying knowledge and understanding

The student will have to show that he is able to use mathematical tools for the formalization of problems and the construction of simple mathematical models. The student must acquire the operational skills necessary to apply the study of the real functions of a real variable, the methods of solving equations, inequalities and linear systems and the knowledge of vectors and matrices both to theoretical-practical questions and to applicative problems of geometric nature.

COURSE CONTENT/SYLLABUS

NUMBERS AND CARTESIAN PLANE: Sets - Natural, integer, rational, real numbers - Maximum, minimum, least upper bound, greatest lower bound - Coordinate axes - Geometric loci - Exercises.
REAL FUNCTIONS OF ONE REAL VARIABLE: Functions and Cartesian representation - Invertible functions - Monotonic functions - Elementary functions - Equations and inequations- Exercises.
LIMITS AND CONTINUITY: Definitions, examples and properties of limits of functions - Continuous functions and related theorems - Exercises.
DIFFERENTIAL CALCULUS: Definitions, examples and properties of derivable functions - Derivatives of the elementary functions - Applications of the differential calculus - Exercises.
INTEGRALS: Primitive functions - Indefinite integrals - Definite integrals - Fundamental theorem of Calculus - Exercises.

READINGS/BIBLIOGRAPHY

G. Crasta, A. Malusa, Elementi di Analisi Matematica e Geometria con prerequisiti ed esercizi svolti, Edizioni LaDotta.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use lectures for about 70% of the total hours and exercises, to deepen theoretical aspects, for about 30% of the total hours.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [x] Written
- [x] Oral
- [ ] Project discussion
- [x] Other : The final grade can take into account of intermediate classwork given during the lessons, in order to stimulate the active participation of the students.

In case of a written exam, questions refer to

- [x] Multiple choice answers
- [x] Open answers
- [x] Numerical exercises

b) Evaluation pattern

The final grade will take into account of the correctness of the answers given in the written exams and/or in the intermediate classwork. In oral exams, the final grade will take into account of the knowledge of the definitions, of the theorems and of the proofs shown during the lessons, of the acquired property of language, of the capacity to write correctly formulas and statements of theorems through mathematical symbols and, finally, of the capacity to discuss about notions explained during the lessons.

COURSE DESCRIPTION
GEOMETRY

SSD: GEOMETRIA (MAT/03)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: CAVALLO BICE
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EMAIL: bice.cavallo@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 01281 - ANALISI MATEMATICA I E GEOMETRIA
MODULE: 00107 - GEOMETRIA
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 3

REQUIRED PRELIMINARY COURSES

No one

PREREQUISITES

Good knowledge of mathematics as scheduled in programs of all upper secondary schools

LEARNING GOALS

The main objective of the course is the acquisition, by the student, of the logical-mathematical skills necessary to face future professional problems. From the point of view of contents, the course aims to provide the mathematical foundations necessary for the study of the scientific subjects of the master's degree course in architecture and their applications. The acquired training must allow students to be able to perform simple calculations, to be able to solve simple equations, inequalities, linear systems; to be able to carry out the study of real functions of a real variable and, finally, to be able to solve geometric questions potentially useful for the development

of design skills.
The course represents a module of the Calculus 1 and Geometry course, which in fact consists of the following modules:
1. Calculus 1 (MAT / 05 - 8 CFU);
2. Geometry (MAT / 03 - 3 CFU).

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must show knowledge and understanding of basic elements of Mathematics and the mathematical language. The educational path of the course aims to provide students with the knowledge and basic methodological tools necessary for strengthening logical, inductive and deductive reasoning skills.

Applying knowledge and understanding

The student must show that he is able to use mathematical tools for the formalization of problems and the construction of simple mathematical models. The student must acquire the operational skills necessary to apply the study of the real functions of a real variable, the methods of solving equations, inequalities and linear systems and the knowledge of vectors and matrices both to theoretical-practical questions and to applicative problems of geometric nature.

COURSE CONTENT/SYLLABUS

MATRICES AND DETERMINANTS: Matrices - Operations with matrices: sum of matrices, product by a scalar, product rows by columns - Determinant of a matrix - Properties of determinants - Inverse matrices - Rank of a matrix. Exercises.

LINEAR SYSTEMS: Linear systems of m equations in n unknowns - Cramer's Theorem - Rouché-Capelli Theorem - Homogeneous systems. Exercises.

ELEMENTS OF PLANE GEOMETRY: The vector space R2 - Scalar product and its properties, orthogonality between vectors, the Euclidean plane - Representation theorem of the scalar product (proof), orthogonality criterion, Cauchy-Schwarz inequality and triangular inequality - Parametric equations and Cartesian equation of a line - Parallelism and perpendicularity between lines - Reference changes in the plane - Polar coordinates - Circumference, ellipse, hyperbola and parabola - General equation of conics - Classification of conics. Exercises.

ELEMENTS OF SPACE GEOMETRY. Parametric equations and Cartesian equations of a line in space - Director numbers of a line - Cartesian equation of a plane in space - Criteria of parallelism and perpendicularity between two planes, between two lines in space and between a line and a plane. Exercises.

READINGS/BIBLIOGRAPHY

1. P. Marcellini, C. Sbordone, Elementi di Calcolo, Liguori Editore.
2. P. Marcellini, C. Sbordone, Esercitazioni di matematica, I Volume (parte prima e parte seconda), Liguori Editore.
3. Aldo G.S.Ventre, Matematica Due, Federiciana Editrice Universitaria, 2011.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use lectures for about 70% of the total hours and exercises to deepen theoretical aspects,for about 30% of the total hours.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [x] Written
- [x] Oral
- [ ] Project discussion
- [ ] Other

In case of a written exam, questions refer to

- [x] Multiple choice answers
- [x] Open answers
- [x] Numerical exercises

b) Evaluation pattern

COURSE DESCRIPTION
GEOMETRY

SSD: GEOMETRIA (MAT/03)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: FIORENZA ALBERTO
PHONE: 081-2538912
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 01281 - ANALISI MATEMATICA I E GEOMETRIA
MODULE: 00107 - GEOMETRIA
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 3

REQUIRED PRELIMINARY COURSES

No one

PREREQUISITES

Good knowledge of mathematics as scheduled in programs of all upper secondary schools

LEARNING GOALS

The main objective of the course is the acquisition, by the student, of the logical-mathematical skills necessary to face future professional problems. From the point of view of contents, the course aims to provide the mathematical foundations necessary for the study of the scientific subjects of the master's degree course in architecture and their applications. The acquired training must allow students to be able to perform simple calculations, to be able to solve simple equations, inequations, linear systems; to be able to carry out the study of real functions of a real variable and, finally, to be able to solve geometric questions potentially useful for the development of design skills. The course represents a module of Calculus 1 and Geometry course, which in fact

consists of the following modules:
1. Calculus 1 (MAT / 05 - 8 CFU);
2. Geometry (MAT / 03 - 3 CFU).

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must show knowledge and understanding of basic elements of Mathematics and the mathematical language. The educational path of the course aims to provide students with the knowledge and basic methodological tools necessary for strengthening logical, inductive and deductive reasoning skills.

Applying knowledge and understanding

The student must show that he is able to use mathematical tools for the formalization of problems and the construction of simple mathematical models. The student must acquire the operational skills necessary to apply the study of the real functions of a real variable, the methods of solving equations, inequalities and linear systems and the knowledge of vectors and matrices both to theoretical-practical questions and to applicative problems of geometric nature.

COURSE CONTENT/SYLLABUS

VECTORS, MATRICES AND LINEAR SYSTEMS: Vectors - Operations and properties - Canonical basis of R2 and R3 -Matrices - Operations and properties - Linear systems - Cramer's theorem - Rouché and Capelli's theorem - Exercises.
ELEMENTS OF PLANE GEOMETRY: The vector space R2 - Straight line equations - Parallelism and orthogonality among straight lines - conic sections - Exercises.
ELEMENTS OF SPACE GEOMETRY: The vector space R3 - Straight line equations - Direction numbers and direction cosines of a straight line - Exercises.

READINGS/BIBLIOGRAPHY

G. Crasta, A. Malusa, Elementi di Analisi Matematica e Geometria con prerequisiti ed esercizi svolti, Edizioni LaDotta.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use lectures for about 70% of the total hours and exercises, to deepen theoretical aspects, for about 30% of the total hours.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [x] Written
- [x] Oral
- [ ] Project discussion
- [x] Other : The final grade can take into account of intermediate classworks given during the lessons, in order to stimulate the active participation of the students.

In case of a written exam, questions refer to

- [x] Multiple choice answers
- [x] Open answers
- [x] Numerical exercises

b) Evaluation pattern

The final grade will take into account of the correctness of the answers given in the written exams and/or in the intermediate classworks. In oral exams, the final grade will take into account of the knowledge of the definitions, of the theorems and of the proofs shown during the lessons, of the acquired property of language, of the capacity to write correctly formulas and statements of theorems through mathematical symbols and, finally, of the capacity to discuss about notions explained during the lessons.

COURSE DESCRIPTION
ARCHITECTURAL WORKS CONSTRUCTION

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: CLAUDI DE SAINT MIHIEL ALESSANDRO
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GENERAL INFORMATION ABOUT THE COURSE

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

REQUIRED PRELIMINARY COURSES

Done

PREREQUISITES

Done

LEARNING GOALS

In line with the objectives of the course of study and with the training to be gained in subsequent years in the field of Architecture Technology, the teaching aims to:
a) understand the technology-architecture relationship, between the creative moment and the construction moment, as well as the construction techniques, materials, products and contents of the technical information;
b) understand the concepts relating to the building process and technical regulations by interpreting the built in systemic terms
c) critically frame the appropriate use of resources and the needs of individuals and the

environment and the results of the application of construction techniques
d) interpret the logic that underlies the construction solutions and indicate the main methodologies relevant to the choices of technical-design solutions

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Knowledge and understanding
The student must understand the technology-architecture relationship, between the creative moment and the realization moment, as well as the construction techniques, materials, products and contents of the technical information; the building process, the technical regulations. He must be able to interpret the built in systemic terms and synthesis of formal, functional, technical and environmental aspects. The training course aims to provide students with the knowledge and basic methodological tools necessary to understand the implications of the technical-performance aspects in architectural solutions.

Applying knowledge and understanding

The student must be able to frame the interventions related to the built environment within the scenarios of the building process, contemplating the various aspects of production (construction, organization, economic, regulatory), the appropriate use of resources and the needs of individuals and of the environment. The training course is aimed at transmitting the operational skills necessary to critically frame the results of the application of construction techniques and to apply technical information to design solutions.

COURSE CONTENT/SYLLABUS

The course, in consideration of its position in the first year, proposes a preliminary reflection on the architectural project as a process capable of developing continuous relationships between conception and execution. Various aspects of the design-construction process will be studied in depth. Specifically, the lectures will cover:
Structures in architecture
The walls
The concrete
The steel
The modalities of graphic representation
The building system
The logic of demand-performance
The foundations
The lower horizontal locks
The external vertical closures
The internal partitions
The upper horizontal closures
Vertical links
Notes on environmental design

Hints on the design of nZEB buildings

READINGS/BIBLIOGRAPHY

E. Allen,*Come funzionano gli edifici*, Dedalo, Milano, 1993; A. Campioli, M. Lavagna, *Tecniche e architettura*, Città Studi, Milano, 2013; M. Salvadori, R. Heller, *Le strutture in architettura*, Etaslibri, Milano, 1992; AA.VV.,*Progettazione tecnologica*, Techne n. 2, Firenze University Press, 2011. (download: http://www.fupress.net/index.php/techne/issue/view/785)

TEACHING METHODS OF THE COURSE (OR MODULE)

Teaching will be organized through lectures, classroom exercises and thematic seminars. The practical phases will include questionnaires formed by closed and open questions and the resolution of simple nodal situations of reinforced concrete and steel buildings. At the end of the course, based on the knowledge acquired, the student must be able to understand and describe the relationships between the architectural project and its construction, understand and describe the technical-construction solutions of a building, define technical solutions of elements construction and related details. The final exam will be aimed at verifying the learning of the contents of the lessons, seminars, bibliography and evaluating the final outcome of the exercise 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

COURSE DESCRIPTION
ARCHITECTURAL WORKS CONSTRUCTION

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: FALOTICO ANTONELLA
PHONE: 081-2538638
EMAIL: antonella.falotico@unina.it

GENERAL INFORMATION ABOUT THE COURSE

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

REQUIRED PRELIMINARY COURSES

NONE

PREREQUISITES

NONE

LEARNING GOALS

In line with the objectives of the Course of Study and with the training to be completed in the following years in the field of Architecture Technology, the teaching aims to: a) understanding the relationship between technology and architecture, between concept and construction, between construction techniques, materials, products and technical information content; b) understand concepts relating to the building process and technical regulations by interpreting the building in systemic terms c) critically consider the appropriate use of resources and needs of individuals and the environment and the outcomes of the application of construction techniques d) interpret the logic behind construction solutions and indicate the main methodologies relevant to the choice of

technical-design solutions.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The students must understand the relationship between technology and architecture, between design and realization moments, as well as the construction techniques, materials, products and contents of the technical information; the building process, the technical code. They must be able to interpret the built environment in systemic terms and as a synthesis of formal, functional, technical and environmental aspects. The educational path aims to provide students with the basic knowledge and methodological tools necessary to understand the implications of technical-performance aspects in architectural solutions.

Applying knowledge and understanding

The students must be able to frame interventions related to the built environment within the scenarios of the building process, covering the various aspects of production (construction, organization, economic factors, regulatory requirements), the appropriate use of resources and the needs of individuals and the environment. The training is geared towards providing the necessary operational skills to critically frame the results of the application of construction techniques and to apply technical information to design solutions.

COURSE CONTENT/SYLLABUS

The course, in consideration of its placement in the first year, proposes a preliminary reflection on the architectural project as a process capable of continuously developing relationships between the moment of conception (thought) and that of realization (technique, construction): technologies, whether they are product or process, are framed in a systemic vision taking into account the complexity and the sudden and revolutionary changes that contemporaneity imposes. The course aims to develop the basic concepts of the technological discipline, terminologies and technical conventions, products and construction procedures, in order to make students aware of the tools necessary for the physical construction of an architectural project. It is also aimed at encouraging a critical attitude on the use of resources and on the technical choices to be made in relation to the processes of transformation of the built environment and the challenges that digital culture and industry 4.0 imposes.

Subjects:

Project, process, technical culture Industrial production for construction

Concept of building system and systemic approach to design

Structural concept: systems and conditions of equilibrium

Parts of the architectural organism: foundations, earth floors and elevation structures, closures, internal solutions, roofs

Building in masonry

Building in reinforced concrete

Build in steel

Executive strategies and project
Construction site and digital manufacturing: innovation in the culture of building

READINGS/BIBLIOGRAPHY

Campioli A., Lavagna M., *Tecniche e architettura*, Città Studi, Milano, 2013.
Salvadori M., Heller R., *Le strutture in architettura*, Etaslibri, Milano, 1992 (cap. 1-7).
Falotico A., *Le strategie esecutive come materiale del progetto di architettura*, in Antonella Falotico, *Cantiere e costruzione*, Liguori, Napoli, 2003, pp.157-161.
Claudi de Saint Mihiel A., Falotico A.(a cura di), *Verso la Open Green Innovation. Cultura tecnologica e nuovi driver del progetto contemporaneo*/Towards Open Green Innovation. Technological culture and new drivers of the contemporary project, Maggioli, Sant'Arcangelo di Romagna, 2018, Capitolo 2, *Open Green Innovation per architetture digitali, adattive e resilienti*, da p. 105 a p. 119.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course includes an articulation consisting of theoretical communications, classroom exercises and seminar activities aimed at the knowledge of materials and techniques typical of a technical culture of architectural design. The course therefore includes:
1. Lectures on specific topics of the technological culture of design
2. Basic frontal lessons in architecture technology
3. Elaboration of simple nodal details of reinforced concrete and steel buildings
4. Seminar activities aimed at deepening the technical culture in architectural design as well as aspects related to the digital approach to manufacturing
5. Inspections (where possible in relation to the anti-COVID-19 safety provisions) in specialized companies and construction sites Two tests will be carried out during the course (questionnaires in the form of open or closed questions) aimed at the preliminary assessment of learning

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☑ Oral
- ☐ Project discussion
- ☑ Other : Construction detail drawing and discussion

In case of a written exam, questions refer to

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

b) Evaluation pattern

COURSE DESCRIPTION
ARCHITECTURAL WORKS CONSTRUCTION

SSD: TECNOLOGIA DELL'ARCHITETTURA (ICAR/12)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: BELLOMO MARIANGELA
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GENERAL INFORMATION ABOUT THE COURSE

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

REQUIRED PRELIMINARY COURSES

No

PREREQUISITES

No

LEARNING GOALS

In line with the objectives of the Course of Study and with the training to be completed in the following years in the field of Architecture Technology, the teaching aims to:
a) understanding the relationship between technology and architecture, between concept and construction, between construction techniques, materials, products and technical information content;
b) understand concepts relating to the building process and technical regulations by interpreting the building in systemic terms

c) critically consider the appropriate use of resources and needs of individuals and the environment and the outcomes of the application of construction techniques
d) interpret the logic behind construction solutions and indicate the main methodologies relevant to the choice of technical-design solution

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The students must understand the relationship between technology and architecture, between design and realization moments, as well as the construction techniques, materials, products and contents of the technical information; the building process, the technical code. They must be able to interpret the built environment in systemic terms and as a synthesis of formal, functional, technical and environmental aspects. The educational path aims to provide students with the basic knowledge and methodological tools necessary to understand the implications of technical-performance aspects in architectural solutions.

Applying knowledge and understanding

The students must be able to frame interventions related to the built environment within the scenarios of the building process, covering the various aspects of production (construction, organization, economic factors, regulatory requirements), the appropriate use of resources and the needs of individuals and the environment. The training is geared towards providing the necessary operational skills to critically frame the results of the application of construction techniques and to apply technical information to design solutions.

COURSE CONTENT/SYLLABUS

The course, in view of its placement in the first year, proposes a preliminary reflection on the design of architecture as a process capable of continuously developing relations between the moment of conception (thought) and that of realization (technique, construction): the technologies of process, design and product, grafted in a systemic vision, are related to the complexity proper to contemporary.The aim of the course is to develop the basic concepts of the technological discipline, the technical terminologies and conventions, the products and the construction processes, in order to make students aware of the tools necessary for the physical construction of an architectural project.It is also aimed at encouraging a critical attitude towards resource use and technical choices to be made in relation to the processes of transformation of the built environment and the challenges induced by energy and health crises, and digitalization.The topics to be covered are:
The Technology of Architecture.
The Industrial Revolution and Architecture.
Sustainable development and the construction world. NZEB Building Design Overview
Systemic logic, building system, systemic approach to design
Structures. Structural concept. Characteristics, properties, performance of: foundation structures, elevation structures, floors.

Building envelope. Characteristics, properties, performance of: perimeter walls, flat and inclined cover, external fixtures.
Partitions. Features, properties, performance of: walls, interior fixtures, stairs.
Construction process.
Performance based approach.
Standard and architectural design.
Building materials and systems

READINGS/BIBLIOGRAPHY

AAVV, Manuale di progettazione edilizia, Hoepli, 1995
E. Arbizzani, Tecnica e tecnologia dei sistemi edilizi. Progetto e costruzione, Maggioli Editori, Rimini, 2021
A. Campioli, M. Lavagna, Tecniche e architettura, Città studi edizioni, Milano, 2013
E. Dassori, R. Morbiducci, Costruire l'Architettura. Tecniche e tecnologie per il progetto, Tecniche nuove, 2010
A. Laurìa, Tecnologie di base per la residenza, Edizioni Centro A-Zeta, 2000

TEACHING METHODS OF THE COURSE (OR MODULE)

The teaching will be organized through lectures, classroom exercises and thematic seminars.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☑ Oral
- ☐ Project discussion
- ☑ Other : Discussion of the drawings

In case of a written exam, questions refer to

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

b) Evaluation pattern

The assessment is based on verifying the learning of the contents of the lectures and the acquisitions obtained through the exercises carried out during the course. The interview and the presentation of the papers contribute equally to the definition of the final grade.

COURSE DESCRIPTION
URBAN AND ARCHITECTURAL COMPOSITION STUDIO 1

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: CAPOZZI RENATO
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EMAIL: renato.capozzi@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0729 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA I - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
MODULE: 25930 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 1
CHANNEL: 01 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

no prerequisite

LEARNING GOALS

The objective of the Project laoratory (Design studio project), in agreement with the Theory of the archietctural project course with which it is integrated, is to introduce the theme of the design of a small building and to indicate its connections with the urban dimension according to a graduality and progressiveness consistent with the structure of the CdS. The course aims to provide students with the basic notions related to:
- the fundamental compositional and syntactic procedures, (starting from the recognition of the elements and the connections that are established between them) of the typological and

morphological aspects underlying the conception of the architectural object also in relation to its possibility of urban construction;
- the connection of the compositional and technical choices with the design theory (object of the integrated module) understood as a systematic set of principles, methods and procedures aimed at defining a project in relation to the questions and needs posed by the community;
- the necessary hermeneutic and critical skills for the interpretation of the architectural theme in relation to the typological, construction and language aspects in relation to specific places (abstract as well as natural or urban);
- the basic rudiments of programs, tools and techniques in order to draw up elementary documents capable of clearly describing the artifacts both at the architectural scale and, in a nutshell, at the urban one, assumed as an articulated system of several artifacts, through appropriate two-dimensional and three-dimensional drawings , diagrams, diagrams, collages, models, etc .;
- the different levels of complexity introduced in the laboratory of the first year as a starting point and necessary premise of knowledge and specialized skills that will then be acquired and perfected in the architectural and urban composition laboratories of the following years.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must demonstrate understanding of the theories, principles and methods that govern architectural design and its connection with the urban dimension. He must be able to recognize the thematic dimension and its necessary connection with the formal and figural interpretation of the artefact both in terms of the distributive, typological, morphological and linguistic aspects in its various scalar articulations and in its unavoidable relations with the city. He must demonstrate critical ability to display the knowledge acquired and the phases of the work carried out, highlighting the individual contribution and that of the collective work of the laboratory's teaching organization. The objective of the project laoratory, is to provide the student with the conceptual and technical tools of architectural and urban composition to tackle a project of an elementary building with a level of complexity commensurate with the first year of training and strictly correlated with the acquisitions provided by the Theory of the archietctural project.

Applying knowledge and understanding

The student must have understood the theories, principles and methods that govern architectural design and its connection with the urban dimension. He must be able to recognize the thematic dimension and its connection with the interpretation and formal interpretation of the artefact with regard to the distributive aspects, recognize, recognize typological, morphological and linguistic in its various necessary scales and in its unavoidable relations with the city. You must demonstrate the critical work capacity by exposing the acquired and the phases of the work by highlighting the individual and that of the collective work of the didactic organization of the laboratory. The aim of the laboratory is to provide the student with the conceptual and technical tools of architectural and urban composition to tackle a project of an elementary building with a level of complexity commensurate with the first year of training and closely correlated with the acquisition module provided by the Theory of the archietctural project.

Autonomy of judgment

*The student must be able to independently evaluate the methods and principles that led him to the definition of the building in its relations with the main methodologies relevant to the compositional syntax for the definition of spaces for living in specific relations and to promote new and more advanced formal solutions. Necessary tools will be provided to allow students to independently analyze choices and to judge and choose outcomes with their colleagues in the semina*r.

Communication skills

The student must be able to argue this with fellow students and teachers, including external ones, on the occasion of specific moments of confrontation (intermediate and final jury) in the various laboratories or in coordination with others, the reason and the assumptions of the formal choices used on the basis of some compositional principles used and on explicit thematic interpretations. The student must also be able to summarize the work done in technical drawings and effective representations that can be understood, for clarity and immediacy, even to a non-public (also through a final exhibition of the projects).

Learning ability

The student must be able to update or expand their knowledge by independently drawing on monographs, articles, scientific essays, and also publications related to the proposals as well as projects to develop the ability to follow seminars, conferences, masters of the departmental offer but also external. As part of the teaching laboratory the organizes and / or proposes to students comparison with other students or with external subjects whose contribution can broaden the field of investigation and knowledge or, again, also favoring autonomous participation in initiatives of particular interest to topics dealt with in accordance with the project laboratory.

COURSE CONTENT/SYLLABUS

Theory of the archietctural project Module (4 CFU)

- aspects of design theory
- discussion of texts
- critical analysis of the works cells

Architectural and Urban Composition Design Studio Module (8 CFU)

- theoretical features
- methodological aspects and compositional procedures
- conception / construction / composition
- the role of exempla
- redesign of references
- drafting of project hypotheses of the building and its possible urban aggregation
- collective discussions of single and group hypotheses
- drafting of project documents (graphic tables and models)

READINGS/BIBLIOGRAPHY

Reference Bibliography

R. Capozzi, *Lo spazio universale di Mies*, LetteraVentidue, Siracusa 2020.
R. Capozzi, *L'esattezza di Jacobsen*, LetteraVentidue, Siracusa 2017.
R. Capozzi, *L'architettura dell'Ipostilo*, Aion, Firenze 2016.R. Capozzi, *L'idea di riparo*, Clean, Napoli 2012.
A. Monestiroli, *La metopa e il triglifo. Nove lezioni di Architettura*, Laterza, Roma-Bari 2004.
C. Martí Arís, *Le variazioni dell'identità. Il tipo in architettura*, Ed. CLUP, Milano, 1990.
A. Rossi, *Architettura per i Musei*, in AA VV, *Teoria della Progettazione architettonica*, Dedalo, Bari 1968.

Further bibliographic references relating to the topics covered or supplementary teaching materials will be provided by the teacher during each lesson.
Digital graphic support materials will also be provided for collective processing (floor plans, three-dimensional models)

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use:
a) lectures for about 10% of the total hours;
b) exercises to practically deepen theoretical aspects for 10% of the total hours;
c) laboratory to deepen the applied knowledge for 70% of the total hours;
d) seminars to deepen specific topics for 10% of the total hours.
Lectures and in-depth seminars can also be provided through multimedia support and with the help of online materials.
The exercises and the laboratory will be carried out in the classroom through the use of suitable tools for the preparation of the documents and 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 final grade, based on the results and skills demonstrated in the discussion of the design project as well as the themes of Design Theory, will be weighted on the CFU of each course and therefore composed as follows:

Theory of the archietctural project Module 4CFU 40%;
Workshop module of Architectural and Urban Composition 8CFU 80%.

COURSE DESCRIPTION
URBAN AND ARCHITECTURAL COMPOSITION STUDIO 1

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: SCALA PAOLA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0729 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA I - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
MODULE: 25930 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 1
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

There are no required preliminary courses.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The aim of the Design Studio course, in relation to the integrated Design Theory module, is to introduce the subject of the conception of a small building and to indicate its connections with the urban dimension, according to a progressive improvement that is coherent with the structure of the CdS. For a conscious definition of an architectural project, the course aims at providing students with basic notions related to: - the main compositional and syntactic procedures (starting from the recognition of the elements and the connections that are established between them) of the typological and morphological aspects at the basis of the architectural object conception also in relation to its possibility of urban construction; - the connection of the compositional and technical

choices with the Design Theory (object of the integrated module) understood as a systematic set of principles, methods and procedures aimed at defining a project in relation to the questions and needs of the community; - the necessary hermeneutic and critical skills for the interpretation of the architectural theme in relation to the typological, construction and language aspects in relation to specific places (abstract as well as natural or urban); - the basic programs, tools and techniques in order to draw up elementary elaborations capable of clearly describing the artifacts both at the architectural scale and at the urban one, assumed as an articulated system of several artifacts, through appropriate two-dimensional and three-dimensional drawings, schemes, diagrams, collages, models, etc.; - the different levels of complexity introduced in the Design Studio course of the first year as a start and a necessary premise of knowledge and specialist skills that then will be acquired and refined in the architectural and urban composition laboratories of the following years.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student needs to show ability to know and understand theories, principles and methods that rule architectural design and its connection with the urban dimension. He needs to be able to recognize the thematic dimension and its necessary connection with the formal and figural interpretation of the artifact both in terms of the functional, typological, morphological, linguistic aspects in its various scale articulations and in its necessary relations with the city. The student needs to demonstrate critical ability to show the knowledge acquired and the phases of the design work carried out, highlighting the individual contribution and that of the collective work of the laboratory's educational organization. The aim of the course is to provide the student with the conceptual and technical tools of architectural and urban composition to define a project of an elementary building with a level of complexity commensurate with the first year of training and strictly correlated with the acquirements provided by the Design Theory course.

Applying knowledge and understanding

The student needs to be able to autonomously evaluate methods and principles that led him to the definition of the building in its relations with the urban and to indicate the main methodologies relevant to the compositional syntax for the definition of living spaces in relations to specific places and to propose new and more advanced formal solutions. The necessary tools will be provided to allow students to individually analyze the choices made and to judge and compare the results both with colleagues and with the teacher in seminars and collective presentations. The student needs also to be able to summarize the work done in technical drawings and effective representations that can be understood, for clarity and immediacy, even to a non-expert's audience (also through a final exhibition of the projects).

COURSE CONTENT/SYLLABUS

The Studio is made by two parts.

The first part works on the concept of "reference in architecture" and is divided into two sections: A . Studying Main Architects' work . Students are guided in the critical redesign of the building chosen as references of the project developed in the second part of the Laboratory.

Each topic, introduced by a lesson, is developed by a practical exercise followed by a collective correction.
B. Studying the site . In this phase, students focus on reading and analyzing the project site, deepening its morphological structure, the characteristics of geography and the landscape.
During the second part of the Studio students develop the final exercise which represents the synthesis of what they developed in the Laboratory and in the Design Theory module. In developing a small house, students will be asked to reflect on the relationship between their project and the context declining some specific themes such as the relationship with the landscape and the geography of a place. They also work on the narrative dimension of architecture , i.e. how translating into the form the reasons of their choices.
The steps of the second part are:
1. Identification of project themes
2. Design of the project concept
3. Plants development
4. elevations Development
5. Final Drawings

READINGS/BIBLIOGRAPHY

Abalos I (2017), *Il buon abitare*,Christian Marinotti
Cornoldi A. (2001) , *Le case degli architetti*, Marsilio
Ungers O.M. (1982), *Architettura come tema*, Electa
The materials necessary for the different work phases will be provided by the teacher and uploaded to the Teams platform

TEACHING METHODS OF THE COURSE (OR MODULE)

The work of the Studio is organized through a series of exercises aimed at “breaking down” the design process in order to allow students to better understand its complexity. The work is organized in frontal lessons and practical activities. During the first part of the Studio students will be organized in groups composed of a minimum of two to a maximum of four students. In the second part, each student will work individually. During the practical activities students produce many models aimed at facilitating the understanding of the spatial dimension of architecture. In the final phase of the course, particular attention is dedicated at representing the project. A final, optional workshop is planned, aimed at preparing the final work.

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 final mark, based on the results and skills showed in the project discussion as well as on the themes and contents of the Design Theory, will be weighted on CFU of each module and, therefore, will be made up of: Design Theory Module 4CFU 40%; Design Studio Module 8CFU 80%.

COURSE DESCRIPTION
URBAN AND ARCHITECTURAL COMPOSITION STUDIO 1

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: COPPOLINO FRANCESCA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0729 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA I - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
MODULE: 25930 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 1
CHANNEL:
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

There are no required preliminary courses.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The aim of the Design Studio course, in relation to the integrated Design Theory module, is to introduce the subject of the conception of a small building and to indicate its connections with the urban dimension, according to a progressive improvement that is coherent with the structure of the CdS.
For a conscious definition of an architectural project, the course aims at providing students with basic notions related to:
- the main compositional and syntactic procedures (starting from the recognition of the elements and the connections that are established between them) of the typological and morphological

aspects at the basis of the architectural object conception also in relation to its possibility of urban construction;
- the connection of the compositional and technical choices with the Design Theory (object of the integrated module) understood as a systematic set of principles, methods and procedures aimed at defining a project in relation to the questions and needs of the community;
- the necessary hermeneutic and critical skills for the interpretation of the architectural theme in relation to the typological, construction and language aspects in relation to specific places (abstract as well as natural or urban);
- the basic programs, tools and techniques in order to draw up elementary elaborations capable of clearly describing the artifacts both at the architectural scale and at the urban one, assumed as an articulated system of several artifacts, through appropriate two-dimensional and three-dimensional drawings, schemes, diagrams, collages, models, etc.;
- the different levels of complexity introduced in the Design Studio course of the first year as a start and a necessary premise of knowledge and specialist skills that then will be acquired and refined in the architectural and urban composition laboratories of the following years.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student needs to show ability to know and understand theories, principles and methods that rule architectural design and its connection with the urban dimension. He needs to be able to recognize the thematic dimension and its necessary connection with the formal and figural interpretation of the artifact both in terms of the functional, typological, morphological, linguistic aspects in its various scale articulations and in its necessary relations with the city. The student needs to demonstrate critical ability to show the knowledge acquired and the phases of the design work carried out, highlighting the individual contribution and that of the collective work of the laboratory’s educational organization. The aim of the course is to provide the student with the conceptual and technical tools of architectural and urban composition to define a project of an elementary building with a level of complexity commensurate with the first year of training and strictly correlated with the acquirements provided by the Design Theory course.

Applying knowledge and understanding

The student needs to be able to autonomously evaluate methods and principles that led him to the definition of the building in its relations with the urban and to indicate the main methodologies relevant to the compositional syntax for the definition of living spaces in relations to specific places and to propose new and more advanced formal solutions. The necessary tools will be provided to allow students to individually analyze the choices made and to judge and compare the results both with colleagues and with the teacher in seminars and collective presentations. The student needs also to be able to summarize the work done in technical drawings and effective representations that can be understood, for clarity and immediacy, even to a non-expert’s audience (also through a final exhibition of the projects).

COURSE CONTENT/SYLLABUS

Module of "Laboratorio di Composizione Architettonica e urbana" (8 CFU)
The course, after an introductory part on the topics of investigation and on the program, is articulated into the following steps concerning the place, the references, the composition and the telling of the project:
- knowledge and interpretation of the study area;
- use of architectural references (critical and interpretative re-drawing);
- definition of the first design hypotheses;
- specification and evaluation of the solutions through collective discussions;
- outlining of the final project outcomes (graphic panels, models, book).

Each step is marked by lessons and specific exercises that guide the development of the design project. In configuring a small building, students will be asked to deeply think about the reasons at the basis of the design choices, through an idea of a composition that moves between simple and complex.

READINGS/BIBLIOGRAPHY

The didactic material provided to the students will be both of an investigative type in the survey area, so that the project work can be immediately supported by research and documentation, and of a bibliographic type.

Among the reference texts:
S. Giedion, Spazio, tempo e architettura, Hoepli, Milano 1941.
C. Martì Aris, La centina e l'arco, Christian Marinotti Editore, Milano 2007.
R. Moneo, Inquietudine teorica e strategia progettuale nell'opera di otto architetti contemporanei, Mondadori, Milano 2005.
F. Purini, Comporre l'architettura, Editori Laterza, Roma-Bari 2000.
L. Quaroni, Progettare un edificio. Otto lezioni di architettura, Edizioni Kappa, Roma 1977.
A. Rossi, L'architettura della citta, Città Studi, Novara 1966.

Further bibliographic references relating to the faced topics or supplementary teaching materials will be provided by the teacher during each lesson.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course provides a cycle of lectures and seminars, to deepen the place of investigation, the topics of the project and the use of references; a series of progressive exercises aimed at guiding the development of design activities of the laboratory; application activities and field trips. The design work will be developed partly in small groups and partly individually, but with continuous collective discussion for the progress of the project. During the Design Studio, particular attention will be paid to the representation, the development of study models and the telling of the project for the final elaborations. In relation to the Design Theory course, collegial comparisons will be provided during the different phases of the process of the project.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [ ] Written
- [x] Oral
- [x] Project discussion
- [ ] Other

In case of a written exam, questions refer to

- [ ] Multiple choice answers
- [ ] Open answers
- [ ] Numerical exercises

b) Evaluation pattern

The final mark, based on the results and skills showed in the project discussion as well as on the themes and contents of the Design Theory, will be weighted on CFU of each module and, therefore, will be made up of: 1/3 Design Theory Module 4CFU; 2/3 Design Studio Module 8CFU.

COURSE DESCRIPTION
THEORY OF ARCHITECTURAL PLANNING

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: VISCONTI FEDERICA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0729 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA I - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
MODULE: U0728 - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
CHANNEL: 01 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 4

REQUIRED PRELIMINARY COURSES

There are no required preliminary courses.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The aim of the Design Theory course, in relation to the integrated Design Studio module, is to introduce the subject of the conception of a small building and to indicate its connections with the urban dimension, according to a progressive improvement that is coherent with the structure of the CdS. The course aims at providing students with basic notions inherent in:
- the main principles and methods of the Design Theory that will be the subject of lectures;
- the close relationship that links the theory of design with the basic compositional techniques and proceduresfor the composition of the building in its relations with the urban;

- the reading and interpretation of texts concerning the design theory as well as the related analytical and interpretative attitudes of themes and artefacts (typologies and morphologies) or urban systems;- the necessary critical capacity in the description of the principles that are at the basis of the architectural themes also in relation to the place's features;
- the understanding of the meaning and the link between theory and practice in the architectural project;
- the elaboration of critical synthesis reports of the examined texts.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student needs to show ability to know and understand, within the Design Theory, the main methodologies for defining the ways of composition. He needs to demonstrate critical ability in the interpretation of texts by highlighting the individual effort and that of the collective work of the Design Theory module in relation to the application activities of the Design Studio module. The educational goal of the teaching is to make founded and connected with the theoretical aspects the formal choices made in the composition.

Applying knowledge and understanding

The student needs to be able to show the understanding of the different positions expressed in the Design Theory in relation to a broader Theory of architecture and the essential link between *principia*and *exempla*. Readings and interpretation of texts, essays but also the analytical description of built works will be connected to the topics proposed in the architectural and urban composition laboratory. The student needs also to be able, in synthetic and critical terms, to recognize, select and compare theoretical assumptions and to connect them to their verification/application in specific works.

COURSE CONTENT/SYLLABUS

"Teoria della progettazione" (4 CFU)
- Aspects related to the Theory for the architectural design;
- critical lectures of theoretical texts;
- critical analysis of works of architecture.

READINGS/BIBLIOGRAPHY

Bibliography

F. Visconti, *Esercizi di analogia*, Thymos Books, Napoli 2022.
A. Rossi, *Architettura per i Musei*, in AA. VV., *Teoria della progettazione architettonica*, Dedalo, Bari 1968.
A. Rossi, *Introduzione* a E.L. Boullée, *Architettura. Saggio sull'arte*, Einaudi, Torino 2005.
A.a. V.v., *Dizionario critico illustrato delle voci più utili all'architetto moderno*, a cura di Luciano Semerani, Edizione C.E.L.I., Faenza 1993 (Items: *Tipo* di C. Martí Arís, *Costruzione* di A.R. Burelli, *Carattere* di E. Mantese).

A. Monestiroli, *La metopa e il triglifo*, Laterza, Roma-Bari, 2002.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is so articulated:
a) lessons: about 80% of the total hours amount,
b) exercises to deep the theoretical aspects: about 10% of the total hours amount,
c) seminars to deep specific themes: about 10% of the total hours amount.
esercitazioni per approfondire praticamente aspetti teorici per 10% delle ore totali c) seminari per approfondire tematiche specifiche per 10% delle ore totali.
Lessons and seminars can be developed also using multimedial devices and on-line materials.
Exercises will be developed through the use of adequate instruments for drawings and for the construction of models.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [ ] Written
- [x] Oral
- [x] Project discussion
- [ ] Other

In case of a written exam, questions refer to

- [ ] Multiple choice answers
- [ ] Open answers
- [ ] Numerical exercises

b) Evaluation pattern

1/3 "Teoria della Progettazione" (Design Theory course)
2/3 "Laboratorio di Composizione architettonica e urbana" (design Studio)

COURSE DESCRIPTION
THEORY OF ARCHITECTURAL PLANNING

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: AMORE MARIA PIA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0729 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA I - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
MODULE: U0728 - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED:
CFU: 4

REQUIRED PRELIMINARY COURSES

There are no required preliminary courses.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The aim of the Design Theory course, in relation to the integrated Design Studio module, is to introduce the subject of the conception of a small building and to indicate its connections with the urban dimension, according to a progressive improvement that is coherent with the structure of the CdS.
The course aims at providing students with basic notions inherent in:
- the main principles and methods of the Design Theory that will be the subject of lectures;
- the close relationship that links the theory of design with the basic compositional techniques and procedures for the composition of the building in its relations with the urban;

- the reading and interpretation of texts concerning the design theory as well as the related analytical and interpretative attitudes of themes and artefacts (typologies and morphologies) or urban systems;
- the necessary critical capacity in the description of the principles that are at the basis of the architectural themes also in relation to the place's features;
- the understanding of the meaning and the link between theory and practice in the architectural project;
- the elaboration of critical synthesis reports of the examined texts.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student needs to show ability to know and understand, within the Design Theory, the main methodologies for defining the ways of composition. He needs to demonstrate critical ability in the interpretation of texts by highlighting the individual effort and that of the collective work of the Design Theory module in relation to the application activities of the Design Studio module. The educational goal of the teaching is to make founded and connected with the theoretical aspects the formal choices made in the composition.

Applying knowledge and understanding

The student needs to be able to show the understanding of the different positions expressed in the Design Theory in relation to a broader Theory of architecture and the essential link between *principia* and *exempla*. Readings and interpretation of texts, essays but also the analytical description of built works will be connected to the topics proposed in the architectural and urban composition laboratory. The student needs also to be able, in synthetic and critical terms, to recognize, select and compare theoretical assumptions and to connect them to their verification/application in specific works.

COURSE CONTENT/SYLLABUS

- Theory and Architectural Design Through some significant experiences of modern and contemporary architecture, the opening lectures aim to explain the role of architectural theory as an essential tool for the project.
- Principles, rules and tools of the architectural project Through a historical-critical examination of the different interpretations of some fundamental elements for the project and the disciplinary tradition, the concepts of: form, function and use; measure and space; theme, type, character, reference; place and context are explored.

READINGS/BIBLIOGRAPHY

READINGS/BIBLIOGRAPHY

C.M. Aris, *La cèntina e l'arco*, Christian Marinotti, Milano 2007.
M. Biraghi, *Storia dell'architettura contemporanea*, vol. I e II., Einaudi, Torino 2008.
R. Moneo, *Inquietudine teorica e strategia progettuale nell'opera di otto architetti contemporanei*, Mondadori, Milano 2005

R. Palma, C. Ravagnati, *Atlante di progettazione architettonica*, Città_Studi, Milano 2014. F. Purini, *Comporre l'architettura*, Editori Laterza, Roma-Bari 2000
A. Rossi, *L'architettura della città,* Marsilio, Venezia 1966.
A. Rossi, *Introduzione* a E.L. Boullée, *Architettura. Saggio sull'arte*, Einaudi, Torino 2005.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course will consist of theoretical lectures, seminars, exercises and group corrections. The course is so articulated: a) lessons: about 70% of the total hours amount, b) exercises to deep the theoretical aspects: about 20% of the total hours amount, c) seminars to deep specific themes: about 10% of the total hours amount.

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 final mark, based on the results and skills showed in the project discussion as well as on the themes and contents of the Design Theory, will be weighted on CFU of each module and, therefore, will be made up of: 1/3 "Teoria della Progettazione" (Design Theory course); 2/3 "Laboratorio di Composizione architettonica e urbana" (design Studio).

COURSE DESCRIPTION
THEORY OF ARCHITECTURAL PLANNING

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: AMIRANTE ROBERTA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0729 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA I - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
MODULE: U0728 - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
CHANNEL:
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 4

REQUIRED PRELIMINARY COURSES

There are no required preliminary courses.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The aim of the Design Theory course, in relation to the integrated Design Studio module, is to introduce the subject of the conception of a small building and to indicate its connections with the urban dimension, according to a progressive improvement that is coherent with the structure of the CdS.
The course aims at providing students with basic notions inherent in:
- the main principles and methods of the Design Theory that will be the subject of lectures;
- the close relationship that links the theory of design with the basic compositional techniques and proceduresfor the composition of the building in its relations with the urban;

- the reading and interpretation of texts concerning the design theory as well as the related analytical and interpretative attitudes of themes and artefacts (typologies and morphologies) or urban systems;
- the necessary critical capacity in the description of the principles that are at the basis of the architectural themes also in relation to the place's features;
- the understanding of the meaning and the link between theory and practice in the architectural project;
- the elaboration of critical synthesis reports of the examined texts.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student needs to show ability to know and understand, within the Design Theory, the main methodologies for defining the ways of composition. He needs to demonstrate critical ability in the interpretation of texts by highlighting the individual effort and that of the collective work of the Design Theory module in relation to the application activities of the Design Studio module. The educational goal of the teaching is to make founded and connected with the theoretical aspects the formal choices made in the composition.

Applying knowledge and understanding

The student needs to be able to show the understanding of the different positions expressed in the Design Theory in relation to a broader Theory of architecture and the essential link between *principia* and *exempla*. Readings and interpretation of texts, essays but also the analytical description of built works will be connected to the topics proposed in the architectural and urban composition laboratory. The student needs also to be able, in synthetic and critical terms, to recognize, select and compare theoretical assumptions and to connect them to their verification/application in specific works.

COURSE CONTENT/SYLLABUS

Module of "Teoria della Progettazione" (4 CFU)
The course is divided into three parts:
In the **first part**, students are guided in learning some "techniques" useful for assuming a condition of initial **disciplinary competence** through some lessons (Architecture / Composition / City / Function-program).
The exercises related to these keywords will be: the **composition of a panel**, the **drawing of an urban map** and finally the **critical identification of an architectural reference** linked to a small functional room of the house: the bathroom.
The **second part** of the course develops the previous concepts (function-program, reference and composition) articulating them in depth with further frontal lessons and it also introduces the **notion of the "place".**
The exercises relating to this term introduce the practice of the **site visit**, which will be carried out in relation to the project area identified for the design project that will subsequently be developed in the Design Studio module.

The third part of the course returns to the topic of the techniques by introducing students to the characteristics of **design thinking** and to the **telling of the project**.
The final exercise of the module, which will lead to the definition of the “final elaboration”, subject of evaluation, will in fact be a **small booklet** in which students will be asked to trace (using different materials, writings and graphics, related to the various phases of their work) the path of the design project of the Design Studio.

READINGS/BIBLIOGRAPHY

The teaching material relating to the work that students will have to produce will be provided to them in relation to the different phases of the exercises.
Text to be read will also be recommended: only some are defined at the beginning, others will be identified in relation to the single lessons.

Among the pre-defined one:
S. Giedion, Spazio, tempo e architettura. Hoepli 1941.
K. Lynch, L'immagine della città, Marsilio 1984.
R. Palma, C. Ravagnati, a cura di, Atlante di progettazione architettonica, CittàStudi 2014.F. Purini, Comporre l'architettura, Editori Laterza, Roma-Bari 2000.
L. Quaroni, Progettare un edificio. Otto lezioni di architettura, Edizioni Kappa, Roma 1977.
A. Rossi, L'architettura della città, Città Studi, Novara 1966.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course will be articulated into lectures, individual exercises, group application activities, moments of individual and collective discussion and field trips.

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 final mark, based on the results and skills showed in the project discussion as well as on the themes and contents of the Design Theory, will be weighted on CFU of each module and, therefore, will be made up of: 1/3 Design Theory Module 4CFU; 2/3 Design Studio Module 8CFU.

COURSE DESCRIPTION
THEORY OF ARCHITECTURAL PLANNING

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: DI COSTANZO GENNARO
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: U0729 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA I - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
MODULE: U0728 - TEORIA DELLA PROGETTAZIONE ARCHITETTONICA
CHANNEL: 04 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED:
CFU: 4

REQUIRED PRELIMINARY COURSES

There are no required preliminary courses.

PREREQUISITES

There are no prerequisites.

LEARNING GOALS

The aim of the Design Theory course, in relation to the integrated Design Studio module, is to introduce the subject of the conception of a small building and to indicate its connections with the urban dimension, according to a progressive improvement that is coherent with the structure of the CdS.
The course aims at providing students with basic notions inherent in:
- the main principles and methods of the Design Theory that will be the subject of lectures;
- the close relationship that links the theory of design with the basic compositional techniques and procedures

for the composition of the building in its relations with the urban;
- the reading and interpretation of texts concerning the design theory as well as the related analytical and interpretative attitudes of themes and artefacts (typologies and morphologies) or urban systems;
- the necessary critical capacity in the description of the principles that are at the basis of the architectural themes also in relation to the place's features;
- the understanding of the meaning and the link between theory and practice in the architectural project;
- the elaboration of critical synthesis reports of the examined texts.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student needs to show ability to know and understand, within the Design Theory, the main methodologies for defining the ways of composition. He needs to demonstrate critical ability in the interpretation of texts by highlighting the individual effort and that of the collective work of the Design Theory module in relation to the application activities of the Design Studio module. The educational goal of the teaching is to make founded and connected with the theoretical aspects the formal choices made in the composition.

Applying knowledge and understanding

The student needs to be able to show the understanding of the different positions expressed in the Design Theory in relation to a broader Theory of architecture and the essential link between principia and exempla. Readings and interpretation of texts, essays but also the analytical description of built works will be connected to the topics proposed in the architectural and urban composition laboratory. The student needs also to be able, in synthetic and critical terms, to recognize, select and compare theoretical assumptions and to connect them to their verification/application in specific works.

COURSE CONTENT/SYLLABUS

-understanding of the value and significance of design theory
-understanding of the circularity between theory and design
-discussion of texts
-critical reading of pivotal figures in the modern and contemporary theoretical landscape.

READINGS/BIBLIOGRAPHY

G. Di Costanzo, Lo spazio della corte, dall'evocazione della radura alla permanenza del tipo, Clean, Napoli 2022.
G. Di Costanzo, Composizioni tonali, lo spazio nelle architetture di Luigi Cosenza, Clean, Napoli 2022.
G. Grassi, La costruzione logica dell'architettura, FrancoAngeli, Milano 2008.
M. Heidegger, Costruire abitare pensare, Ogni uomo ètutti gli uomini, Mimesis, Milano 2017.
Martí Aris, Le variazioni dell'identità. Il tipo in architettura, CittàStudi, Torino 2010.

C. Martí Aris, La cèntina e l’arco. Pensiero, teoria, progetto in architettura, Christian Marinotti, Milano 2007.
Monestiroli, La metopa e il triglifo. Nove lezioni di Architettura, Laterza, Roma-Bari 2002.
V. Ugo, I luoghi di Dedalo. Elementi teorici dell’architettura, Edizioni Dedalo, Bari 1991.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is so articulated:
a) lessons: about 60% of the total hours amount,
b) exercises to deep the theoretical aspects: about 10% of the total hours amount,
c) seminars to deep specific themes: about 30% of the total hours amount.

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

1/3 Teoria della Progettazione
2/3 Laboratorio di Composizione architettonica e urbana

COURSE DESCRIPTION
BASIC URBAN PLANNING

SSD: URBANISTICA (ICAR/21)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: BERRUTI GILDA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
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

none

PREREQUISITES

none

LEARNING GOALS

The student is called to learn urban planning as a complex discipline that is formed at the intersection of multiple knowledge, dimensions and profiles of competence. To clarify this perspective, the course mainly focuses on the relationship between space and soiety in the processes of transformation of the modern and contemporary city. In particular, the first part of the course is aimed to acquire a critical knowledge of the discipline starting from the study of its origins; the second part deals with issues related to European and American social and cultural contexts, referring to their tools that make up its backbone. The final part of the course deals with issues and challenges of contemporary urban planning.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student is able to study sources, documentation and materials that provide the background of historical-critical knowledge useful for locating origins and evolutions of the discipline. The goal is to stimulate analytical and interpretative skills about the main achievements and tools that urban planning has made use of, from its birth during the industrial revolution to the present day.

Applying knowledge and understanding

The student must be able to read and interpret urban cartography, identifying different urban fabrics, deconstructing them into the main components, recognizing the distinctive characteristics of a pre-industrial, nineteenth-century or modern settlement, and the main kind of public and open spaces.

COURSE CONTENT/SYLLABUS

Each of the following topics has one or more lessons associated with it. Some texts are read and commented in class.

1. Introduction to the course. What does Urban Planning mean? The mutations of urban planning. The origins. Roots.
2. The archetypes of spatial planning. Land use and public power. The grid of Hippodamus from Miletus. Relationship between division of space and law. The tortuous model. Romulus' furrow. Spatial planning and power.
3. The spatial orderings. The models of spatial ordering. The radiocentric grid. The orthogonal grid. The labyrinthine grid.
4. The Cerdà plan of Barcelona: a theory of spatial equality. The grid as a political program. A theory as a basis for action. From the plan to the achievements.
5. The state and land regulation. Land use conflicts. Externalities. Property law and regulation. Government of the territory and regulation.
6. Garden Cities of Tomorrow: a model of spatial balance. The space model. The social city. The setting up of the garden city. Howard's legacy.
7. The contribution of Patrick Geddes. Pedagogical role of greenery. The city as a complex ecosystem. Bioregionalism. The Geddesian survey. Urban planning as civics.
8. Georg Simmel's contribution: the metropolis and the life of the spirit.
9. The Greater London Plan. The spatial model of the plane. The densities. The model of social organization.
10. Kevin Lynch's image survey: the city seen through the eyes of those who live it.
11. The city of the Modern Movement.
12. Criticism of the Modern Movement: Jane Jacobs.
13. Oscar Newman's theory of defensible space.
14. Townscape as the art of relationship: Gordon Cullen.
15. Connections and insights starting from the reading of the contemporary city.

READINGS/BIBLIOGRAPHY

Gaeta L., Janin Rivolin U., Mazza L., Governo del territorio e pianificazione spaziale, Cittàstudi edizioni, Torino, seconda edizione, 2018.
Gabellini P., Le mutazioni dell'urbanistica. Principi, tecniche, competenze, Carocci, Roma, 2018.
Additional bibliographical references and supplementary teaching materials will be provided during the lessons.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is structured with lectures followed by exercises. Anthological readings and insights drawn from relevant literature sources are used to interactively build a shared learning process.
Two tests are scheduled as formative evaluation.
The exam takes place in the form of an interview. The student is required to discuss three topics, the first of which can be chosen. The interview is aimed at understanding whether the candidate is able to make relevant connections between the topics studied and the questions posed by the transformations underway in the contemporary city.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☑ Oral
- ☐ Project discussion
- ☑ Other : The results of the 2 tests are taken into account in the final evaluation.

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: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: STANGANELLI MARIALUCE
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
CHANNEL: 03 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: I
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 6

REQUIRED PRELIMINARY COURSES

None

PREREQUISITES

None

LEARNING GOALS

The aim of the course is to introduce the student to the reading and interpretation of urban spaces, through practical activities and theoretical lessons. The theoretical lessons will illustrate the various phases of the debate on urban space that led to the creation of the urban planning discipline and its most recent evolutions. The practical activities will consist of simple exercises aimed at developing the ability to observe and interpret urban space also in relation to the social practices concerning it.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student needs to show knowledge and ability to compare the different theories and different approaches regarding the interpretation, management and planning of urban space. The course provides students with the knowledge and basic methodological tools necessary to analyze and understand the main phenomena of change in the urban environment, grasping the implications and consequences of specific transformation actions. The student must also demonstrate the ability to analyze and understand the multiple complex relationships between the different elements of urban space.

Applying knowledge and understanding

The course delivers skills and tools, methodological and operational, necessary for the knowledge, understanding and interpretation of urban areas, according to different cognitive approaches. At the end of the course the student needs to be able to elaborate synthetic analysis of the observed urban spaces, to identify problems under multiple profiles, and select adequate project actions for their resolution.

COURSE CONTENT/SYLLABUS

The course focuses on four main issues: 1) spatial models and devices for urban settings; 2) theories on urban space; 3) controversies over the transformation and management of urban spaces 4) critical issues.
Theoretical lessons will be accompanied by the guided development of applicative exercises aimed at developing the ability to understand and interpret the urban spaces observed.
In detail, the following topics will be discussed:
Spatial models: the Hippodamian space, the Roman colonies, the garden city, the ville radieuse, the workers' neighborhood, the Chinese town.
Spatial devices: the medieval space, the perspective space, the walkable space, the space of peripheries
The theories and controversies on urban space: absolute space and relative space, the debate on the city of the end of XIX century and the birth of the urban planning discipline; the space of the modern movement and the CIAM; The debate of the second post-war period; The critique of absolute space: Jane Jacobs, Norberg Shulz, Kevin Lynch, Gordon Cullen; The social space: Lefebvre and Foucault; The space of nature: the environmental movement; Complexity and chaos Criticalities: The ecological crisis and the concept of Sustainability; Climate Change and mitigation and adaptation strategies; Natural and anthropogenic risks and the concept of resilience; Immigration, senilization, social divide: trends and development scenarios for the future.

READINGS/BIBLIOGRAPHY

Gaeta, L., Jeanin Rivolin, U., Mazza, L., Governo del Territorio e Pianificazione Spaziale, Città Studi, Milano Lecture notes of the course

TEACHING METHODS OF THE COURSE (OR MODULE)

Teaching activities are developed through: a) theoretical lessons for 60% of the total hours, b) application exercises for 12 hours c) analysis of case studies, field trip and classroom discussion divided into groups, for 8 hours.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [x] Written
- [x] Oral
- [ ] Project discussion
- [ ] Other

In case of a written exam, questions refer to

- [x] Multiple choice answers
- [x] Open answers
- [ ] Numerical exercises

b) Evaluation pattern

Final exam consists of a written test - assessing the knowledge of the theoretical contents of the course - and an oral test useful for evaluating the ability to argue the results of the exercises and other application activities developed during the course, highlighting the critical issues that have emerged and the possible spatial and organizational solutions.
Only students who have passed the written test can access to the oral exam. In case of failure of the oral test, it will be necessary to repeat the written test as well. The outcome of the written test accounts for 60% of the overall assessment. In the written test the correctness of the answers will be evaluated, wrong or blank answers will be evaluated as null and will not constitute a negative score.

COURSE DESCRIPTION
BASIC URBAN PLANNING

SSD: URBANISTICA (ICAR/21)

DEGREE PROGRAMME: ARCHITETTURA (N14)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

TEACHER: COPPOLA EMANUELA
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EMAIL: emanuela.coppola@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
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

nobody

PREREQUISITES

nobody

LEARNING GOALS

The student is called to learn urban planning as a complex discipline that is formed at the intersection of multiple knowledge, dimensions and profiles of competence. To clarify this perspective, the teaching mainly takes into account the relationship between the physical form of the urbs and issues related to the involvement of the civitas in the processes of transformation of the modern and contemporary city. In particular, the teaching allows you to acquire a critical knowledge of the discipline starting from the deepening of its origins and then analyzing issues related to the specificity of the European social and cultural context, referring to the tools that make up its backbone.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student is placed in the presence of sources, documentation and materials that provide the background of historical-critical knowledge useful to place the origins and evolutions of the discipline in the European context and in the United States. The goal is to stimulate analytical and interpretative skills about the main achievements and tools that urban planning has made use of, from its creation to the present day.

Applying knowledge and understanding

The student will be able to activate analytical skills and critical reading of the different approaches to the themes of the city and its transformation, from the birth of urban planning to the present day. He will be able to identify the fabrics that make up an urban agglomeration, recognizing and describing the distinctive characteristics of a settlement, and the prevailing types of public and open space.

COURSE CONTENT/SYLLABUS

The course has a part of lessons about Urban Planning Theory and partly by a practical module that show students some urban plans and where the students measure themselves with exercises of territorial analysis and urban planning

Topics

Definition of Urban Planning. Urban planning in ancient civilizations and the concept of rational planning. Limits to rationality. Strategic planning.
The right to the city. The city of the rich and the city of the poor (Bernardo Secchi).
The two archetypes of spatial planning. Spatial forms, rules and strategies. Land, culture, power. Spatial ordering and social control. Borders.
The traditional spatial ordering models of historic cities. The institution of spatial planning: the German school.
The crisis of the European industrial city and the origins of modern urbanism. The plan of Paris and the Grand travaux and the plan of Naples. The ring of Vienna. Camillo Sitte and the "Art of building cities".
The three fathers of contemporary planning: Cerdà, Geddes and Howard. Cerdà's Barcelona: the grid as an application of the principle of fairness. Patrick Geddes and the sociological approach to planning. The Garden City of Howard.
The twentieth century. The Modern Movement and the CIAM congresses. Le Corbusier and the Charter of Athens. The Greater London plan of Abercrombie. Twentieth-century manuals: “Town and country planning” and “Old cities and new buildings” of Gustavo Giovannoni. The western district of Naples.
The question of historical centers. From the monument to the "historic center". From Giovannoni to Cervellati through Tito Angelini's Bergamo rehabilitation plan and Astengo's Assisi plan.
The scientific method of Astengo.

The Olivettian Community Movement. “
The Death and Life of Great American Cities” of Jane Jacobs.
Kevin Lynch - The investigation and design of the city.
The 21st century and the ecological paradigm in planning: soil-sealing, eco-city and green infrastructure. Green cities and capital cities. The European Landscape Convention. The Health city and the healthy streets.

The technical-practical exercise

Preparation of cards in A4 format relating to the municipal context in which the student lives. Students will carry out both simple exercises of historical evolution analysis and observation of the municipal context in which they live and of reading the current municipal plan.

READINGS/BIBLIOGRAPHY

1. Gaeta L., Janin Rivolin U., Mazza L., *Governo del territorio e pianificazione spaziale*, Città Studi edizioni, 2021

Articoli e stralci delle seguenti pubblicazioni:

2. Alexander E., *Introduzione alla pianificazione*, 1997
3.Coppola E., *Laboratorio Bagnoli*, Edicampus, 2020
4. Coppola E., *Infrastrutture Sostenibili Urbane*, INU Edizioni –Collana Accademia, 2016
5. Coppola E., “Green Cities vs Green Capital: indicatori e politiche della sostenibilità a confronto”, in F. M. Palestino (curatrice), *Spazi spugna. Pratiche di pianificazione e progetto sensibili alle acque*. CLEAN Edizioni -Collana Urbana,2014, p. 84-95
6. Coppola E., “L’infrastruttura verde come rete multifunzionale: il caso anglosassone”, in *Urbanistica Informazioni*, n. 232, 2010, p. 33-34
7. Jacobs J., *Vita e morte delle grandi città*, Einaudi, 2009
8. Lynch K., *Progettare la città*, Etas Libri, 1990
9. Secchi B., La città dei ricchi e la città dei poveri, Editori Laterza, 2013
10. Sitte C., *L’arte di costruire la città*, Jaka Book, 1980

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use: a) lectures for about 70% of the total hours, b) exercises to practically deepen theoretical aspects for 20% hours, c) seminars for 10%. The exercise will also make use of the OPS app - acronym for Observatory Landscape Soil - developed by the Consumption Observatory of Soil Campania to allow individual citizens, with a view to active citizenship, to report both negative aspects that damage the landscape that good practices that enhance it (http:// Osservatorioconsumosuolo.campania.it).

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 elaboration and delivery of the technical-practical exercise is the necessary condition for carrying out the exam. The exercises will be explained during the lessons and any corrections will be made.