COURSE DESCRIPTION
HISTORY OF CITY AND LANDSCAPE

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

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

COURSE DESCRIPTION

TEACHER: MANGONE FABIO
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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: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES

None

PREREQUISITES

None

LEARNING GOALS

The course aims at providing architectural students with the cultural tools to develop a particular "sensitivity" for historicized places, as well as appropriate methods for the knowledge and interpretation of the city and the man-made landscape, through the reading of historical stratification and transformations, and the knowledge of main events, urban models, issues, aspects of the theoretical debate between the Nineteenth and the Twentieth century. It also aims to encourage the training of research skills and the maturation of critical attitudes of students.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Knowledge and understanding Through lectures and seminars, projections and collective discussion on films, site visits, and in-class exercises and activities, students would get to know places and events related to urban and landscape history, urban planning models and theories relevant to the topics of the course. Students will develop sensitivity and critical attitudes necessary for reading and interpreting the urban and landscape context, with the aim, ultimately, to elaborate design projects.

Applying knowledge and understanding

Applying knowledge and understanding The knowledge and skills acquired will allow the students to analyze and understand the relationships between projects, places and society. The new competence and ability will be related to the design projects that the students will conduct through the themes addressed in the various design, construction, urban planning and restoration studios and laboratories.

COURSE CONTENT/SYLLABUS

The course focuses, above all, on the events of the Nineteenth and Twentieth centuries, the theoretical debate, the creation of models for planning, and physical transformations. The course favors a broad look at the themes of the city, its territory, and landscape, able to relate the economic and social transformations with the products of the technical culture, material transformations as well as immaterial ones.
Some specific insights will deal with the theme of the relationship between cities and landscapes with the arts, and in particular with literature, photography and cinema. Specific lectures will be reserved for some significant areas of the city of Naples. The study of these neighborhoods will combine the first-hand knowledge of the places through site visits, with the analysis of historical events. Therefore, the course proposes diachronic readings of historical urban and urbanistic events, together with synchronic readings of physical places marked by history.

In particular, the topics addressed during the course will be articulated around the following thematic nucleus:

A. Urban history in the Nineteenth and Twentieth centuries = 3 CFU

History of the city and history of urban planning: methodological problems. The city as a theoretical question. Themes and problems of the industrial city. The many skills of the Nineteenth-century urban plan. Growth and recovery. The new discipline of urban planning.

B. History of landscape in the Nineteenth and Twentieth centuries = 2 CFU

The picturesque and the new concept of the landscape. The contribution of literature and painting. Development of the concept of landscape and its values between the Nineteenth and Twentieth centuries. Materiality and image in the landscape.

C. The City of Naples = 2 CFU

Neapolitan neighborhoods as emblematic case studies: the Spanish Quarters; the Rettifilo; Santa Lucia and Pizzofalcone after the Unification; the Rione Carità; the Mostra d'Oltremare.

D. City and cinema = 1 CFU

Projections and readings about: Vienna and Munich, Berlin and Babylon: the hinterland of Metropolis. Naples in the cinema of Francesco Rosi. The new cities of the Agro Pontino in Italian cinema in recent decades. The cinema of the architects. The construction of a cinematic landscape.

READINGS/BIBLIOGRAPHY

Extracts from volumes and articles (provided by the teacher in digital format); projection of images and videos. To access the bibliographic references of the course, please check “Materiale didattico” on professor’s web page.

TEACHING METHODS OF THE COURSE (OR MODULE)

Teaching will be deployed through lectures, classes, seminars, film projections and site visits. The lessons will make use of the projection of images and videos. Teaching materials will be provided by the teacher. In some cases, external scholars will be invited as experts and guests to deliver seminars on specific topics. The lectures will make up 60% of the total hours; the activities, seminars and the projection of films 30%; site visits 10%.

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 final assessment will be based on the oral exams aimed at ascertaining the knowledge and the critical skills acquired. Please, check the dates of the exams on the professor’s webpage.

SCHEDA DELL'INSEGNAMENTO (SI)
STORIA DELLA CITTA' E DEL PAESAGGIO

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

DENOMINAZIONE DEL CORSO DI STUDIO: ARCHITETTURA (N14)
ANNO ACCADEMICO 2022/2023

INFORMAZIONI GENERALI - DOCENTE

DOCENTE: BELLI GEMMA
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INFORMAZIONI GENERALI - ATTIVITÀ

INSEGNAMENTO INTEGRATO: NON PERTINENTE
MODULO: NON PERTINENTE
CANALE: 02 Cognome A - Z
ANNO DI CORSO: III
PERIODO DI SVOLGIMENTO: SEMESTRE II
CFU: 8

INSEGNAMENTI PROPEDEUTICI

Nessuno.

EVENTUALI PREREQUISITI

Non richiesti.

OBIETTIVI FORMATIVI

Il corso intende fornire agli allievi architetti gli strumenti culturali atti a sviluppare una particolare “sensibilità” per i luoghi storicizzati, nonché appropriati metodi per la conoscenza e per l’interpretazione della città storica e del paesaggio antropizzato, attraverso la lettura della stratificazione e delle trasformazioni nel tempo, e la conoscenza dei principali avvenimenti, modelli urbani, questioni, aspetti del dibattito teorico tra Ottocento e Novecento. Esso mira, inoltre, a incentivare la formazione delle capacità di ricerca e la maturazione delle attitudini critiche degli allievi.

RISULTATI DI APPRENDIMENTO ATTESI (DESCRITTORI DI DUBLINO)

Conoscenza e capacità di comprensione

Attraverso lezioni frontali e seminari, la visione e discussione collettiva di filmati, visite guidate, e piccole esercitazioni in aula, lo studente deve pervenire a conoscere luoghi e vicende della storia urbana e del paesaggio, modelli e teorie dell'urbanistica, sviluppando la sensibilità e le attitudini critiche necessarie alla lettura, alla interpretazione del contesto e alla elaborazione del progetto di intervento.

Capacità di applicare conoscenza e comprensione

Lo studente èstimolato ad elaborare con chiarezza e rigore il metodo studiato e a familiarizzare con i termini propri della disciplina.
Partendo dalle conoscenze acquisite, lo studente deve essere in grado di aggiornarsi e ampliare le proprie conoscenze, attingendo in maniera autonoma a saggi, articoli scientifici propri della storia dell'architettura, della città, dell'urbanistica e del paesaggio, filmati, testi letterari, e deve poter acquisire in maniera graduale la capacità di seguire seminari specialistici, conferenze, master, ecc., in tali settori.
Le conoscenze e le abilità maturate consentiranno allo studente di comprendere la relazione tra progetto, luoghi e società. Esse verranno messe in relazione con le sperimentazioni che gli allievi condurranno attraverso i temi progettuali affrontati nei diversi laboratori di progettazione, di costruzione, di urbanistica, di restauro.
Il corso, inoltre, fornisce allo studente le indicazioni e i suggerimenti necessari per consentirgli di affrontare altri argomenti affini a quelli in programma.

PROGRAMMA-SYLLABUS

Il corso si concentra soprattutto sulle vicende Otto e Novecentesche, sul dibattito teorico, sulla creazione di modelli per la pianificazione, sulle trasformazioni fisiche. Privilegia uno sguardo ampio sui temi della città e del territorio in grado di mettere in relazione tra loro le trasformazioni economiche e sociali con i prodotti della cultura tecnica, le trasformazioni materiali con quelle immateriali. Alcuni approfondimenti specifici riguarderanno anche il tema del rapporto di città e paesaggio con la letteratura, con la fotografia e con il cinema. Altri approfondimenti verranno poi riservati ad alcune aree della città di Napoli per consentire di coniugare la conoscenza fisica dei luoghi con l'analisi delle vicende storiche. Verranno, pertanto, proposte letture diacroniche di vicende storico-urbane e storico-urbanistiche, e sincroniche di luoghi fisici segnati dalla storia.
In particolare, gli argomenti affrontati durante il corso si articoleranno attorno ai seguenti nuclei tematici:

A. Storia urbana e storia dell'urbanistica tra Ottocento e Novecento = 3 CFU

Storia della città e storia dell'urbanistica: problemi di metodo. La città come questione teorica. Temi e problemi della città industriale. I tanti saperi del piano ottocentesco. La crescita e il risanamento. La nuova disciplina urbanistica.

B. Storia del paesaggio tra Ottocento e Novecento = 2 CFU

Il pittoresco e la nuova concezione del paesaggio. Il contributo della letteratura e della pittura. Sviluppo del concetto di paesaggio e dei suoi valori tra ottocento e novecento. Materialità e immagine nel paesaggio

C. La città di Napoli = 2 CFU

Napoli. Alcuni casi-studio emblematici: i Quartieri spagnoli; il Rettifilo; Santa Lucia e Pizzofalcone dopo l'Unità; il rione Carità; la Mostra d'Oltremare.

D. Città e cinema = 1 CFU

Alcune letture: Vienna e Monaco, Berlino e Babilonia: il retroterra di Metropolis. Napoli nel cinema di Francesco Rosi. Le città nuove dell'Agro Pontino nel cinema italiano degli ultimi decenni. Il cinema degli architetti. La costruzione di un paesaggio cinematografico.

MATERIALE DIDATTICO

Durante il corso la docente fornirà agli studenti il materiale di studio necessario: estratti di volumi in forma digitale (o l'indicazione per il reperimento in forma cartacea), ppt e pdf con immagini, filmati, link di riferimento. In particolare, poi, fornirà estratti dai seguenti testi: B. Gravagnuolo, *La progettazione urbana in Europa 1750-1960*, Laterza, Roma-Bari 1991 (primi tre capitoli); G. Zucconi, *La città dell'Ottocento*, Laterza, Roma-Bari 2007 (pp. 3-17, 48-59); C. Tosco, *Il paesaggio storico: le fonti e i metodi di ricerca tra Medioevo ed età moderna*, Laterza, Roma- Bari 2009 (pp. 3-29); A. Pizza, *Parigi e Baudelaire. Letteratura, arti e critica nella città moderna*, Unicopli, Milano 2017; F. Mangone, *Il centro storico di Napoli: uno, nessuno, centomila*, in *La scoperta della città antica. Esperienza e conoscenza del centro storico nell'Europa del Novecento* , a cura di D. Cutolo e S. Pace, Quodlibet studio, Macerata 2016, pp. 259-272; F. Mangone, *I quartieri spagnoli di Napoli / The quartieri spagnoli of Naples,* in *Approcci integrati per l'analisi e il recupero dei centri storici tra morfologia e costruzione/ Integrated approaches for the analysis and recovery of historic centers between morphology and construction*, a cura di R. Capozzi, C. Orfeo, A., Picone, Clean, Napoli 2016, pp. 46-53; G. Alisio, *Lamont Young. Utopia e realtà nell'urbanistica napoletana dell'Ottocento*, Officina, Roma 1978 (pp. 150-167); G. Belli, *Le assicurazioni Generali e il Risanamento di Napoli*, in «Storia dell'Urbanistica», n. 8, 2016, pp. 161-173; F. Mangone, *La presenza delle Generali nel quartiere Santa Lucia*, in «Storia dell'Urbanistica», n. 8, 2016, pp. 143-158; F. Mangone, *La Mostra d'Oltremare*, in «Storia dell'urbanistica», 6, 2014, pp. 205-220; G. Belli, *Un altro sguardo: Federico Patellani (1911-1977) e la Mostra Triennale delle Terre Italiane d'Oltremar/Another view: Federico Patellani (1911-1977) and the Mostra Triennale delle Terre Italiane d'Oltremare*, in A. Berrino, A. Buccaro, a cura di, *Delli Aspetti de Paesi. Vecchi e nuovi Media per l'Immagine del Paesaggio. Old and New Media for the Image of the Landscape, tomo primo, Costruzione, descrizione, identità storica/ Construction, Description, Historical Identity*, CIRICE, Napoli 2016, pp. 593-602; A. Maglio, *La Mostra d'Oltremare e il Teatro Mediterraneo*, in G. Belli e A. Maglio, a cura di, *Luigi Piccinato (1899-1983). Architetto e urbanista*, Aracne, Roma 2015, pp. 187-205; E. Ricciardi, *Appunti per una storia dell'urbanistica napoletana*, Beta Gamma, Viterbo 2002 (pp. 1-39); G. Belli, A Maglio, *Introduzione*, in «Storia dell'urbanistica», "Città e cinema" a cura di G. Belli e A. Maglio, n. 11, 2019, pp. 13-19; F. Mangone, *Vienna e Monaco, Berlino e Babilonia: il retroterra di Metropolis*, in «Storia dell'urbanistica», "Città e cinema" a cura di G. Belli e A. Maglio, n. 11, 2019, pp. 41-55; G.

Belli, *“Formes du langages”: poetiche di spazio nei filmati di Luigi Moretti*, in «Storia dell’urbanistica», “Città e cinema” a cura di G. Belli e A. Maglio, n. 11, 2019, pp. 99-112; A. Maglio, *I prodromi della disfatta. Napoli nel cinema di Francesco Rosi da* La sfida *a* Le mani sulla città, in «Storia dell’urbanistica», “Città e cinema” a cura di G. Belli e A. Maglio, n. 11, 2019, pp. 191-210; G. Belli, *“Le muse inquietanti”. Dalla celebrazione del Regime all’esaltazione della violenza: luoghi tra Roma e l’Agro Pontino*, in F. Capano, M. I. Pascariello, M. Visone, a cura di, La Città Altra*/The Other City. Storia e immagine della diversità urbana: luoghi e paesaggi dei privilegi e del benessere, dell’isolamento, del disagio, della multiculturalità/History and image of urban diversity: places and landscapes of privilege and well-being, of isolation, of poverty and of multiculturalism*, CIRICE, Napoli 2018, pp. 923-930.

MODALITÀ DI SVOLGIMENTO DELL'INSEGNAMENTO-MODULO

La didattica si svolgerà mediante lezioni frontali, attività seminariali, proiezione di filmati e sopralluoghi. Le lezioni si avvarranno del supporto di immagini e filmati, di materiali didattici forniti dalla docente, e in taluni caso della partecipazione di studiosi esterni. Le lezioni frontali costituiranno il 60 % delle ore totali, le attività seminariali e la proiezione di filmati il 30%, i sopralluoghi il 10%.

VERIFICA DI APPRENDIMENTO E CRITERI DI VALUTAZIONE

a) Modalità di esame

- ☐ Scritto
- ☑ Orale
- ☐ Discussione di elaborato progettuale
- ☐ Altro

In caso di prova scritta i quesiti sono

- ☐ A risposta multipla
- ☐ A risposta libera
- ☐ Esercizi numerici

b) Modalità di valutazione

Mediante un colloquio orale saranno valutate le conoscenze e le capacità critiche acquisite dallo studente.

COURSE DESCRIPTION
HISTORY OF CITY AND LANDSCAPE

SSD: STORIA DELL'ARCHITETTURA (ICAR/18)

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

COURSE DESCRIPTION

TEACHER: SESSA ROSA
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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: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES

None

PREREQUISITES

None

LEARNING GOALS

The course aims at providing architectural students with the cultural tools to develop a particular "sensitivity" for historicized places, as well as appropriate methods for the knowledge and interpretation of the city and the man-made landscape, through the reading of historical stratification and transformations, and the knowledge of main events, urban models, issues, aspects of the theoretical debate between the Nineteenth and the Twentieth century. It also aims to encourage the training of research skills and the development of critical attitudes of students.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding
Through lectures and seminars, projections and collective discussion on films, site visits, and in-class exercises and activities, students would get to know places and events related to urban and landscape history, urban planning models and theories relevant to the topics of the course. Students will develop sensitivity and critical attitudes necessary for reading and interpreting the urban and landscape context, with the aim, ultimately, to elaborate design projects.

Applying knowledge and understanding
The knowledge and skills acquired will allow the students to analyze and understand the relationships between projects, places and society. The new competence and ability will be related to the design projects that the students will conduct through the themes addressed in the various design, construction, urban planning and restoration studios and laboratories.

COURSE CONTENT/SYLLABUS

The course focuses on architectural and urban events of the Nineteenth and Twentieth Centuries, the development of the theoretical debate on these themes, the creation of models for planning and the physical transformation of territories and landscapes.
The course encourages a broader look at the themes of the city, its territory, and landscape. It relates the economic and social transformations with the products of the technical culture, and pays attention to material changes as well as immaterial ones.
Some specific insights will deal with the relationship between cities and landscapes with the arts, and in particular with literature, photography and cinema.
Specific lectures will be reserved for some significant areas of the city of Naples. The study of these neighborhoods will combine first-hand knowledge of the places through site visits, with the analysis of historical developments. Therefore, the course proposes diachronic readings of historical urban events, together with synchronic readings of physical places.

The topics addressed will be articulated around the following themes:
A. Urban history in the Nineteenth and Twentieth centuries = 3 CFU
History of the city and history of urban planning: methodological problems. The city as a theoretical question. Themes and problems of the industrial city. The many skills of the Nineteenth-century urban plan. Growth and recovery. The new discipline of urban planning.

B. History of landscape in the Nineteenth and Twentieth centuries = 2 CFU
The picturesque and the new concept of the landscape. The contribution of literature and painting. Development of the concept of landscape and its values between the Nineteenth and Twentieth centuries. Materiality and image in the landscape.

C. The City of Naples = 2 CFU
Neapolitan neighborhoods as emblematic case studies: the Spanish Quarters; the Rettifilo; Santa Lucia and Pizzofalcone after the Unification; the Rione Carità; the Mostra d'Oltremare.

D. City and cinema = 1 CFU

Projections and readings about: Vienna and Munich, Berlin and Babylon: the hinterland of Metropolis. Naples in the cinema of Francesco Rosi. The new cities of the Agro Pontino in Italian cinema in recent decades. The cinema of the architects. The construction of a cinematic landscape.

READINGS/BIBLIOGRAPHY

Extracts from volumes and articles (provided by the teacher in digital format); projection of images and videos.

To access the bibliographic references of the course, please check “Materiale didattico” on professor’s web page.

TEACHING METHODS OF THE COURSE (OR MODULE)

Teaching will be deployed through lectures, classes, seminars, film projections and site visits.
Lectures will make use of the projection of images and videos.
Teaching materials will be provided by the teacher. Scholars may be invited as experts and guests to deliver seminars on specific topics.
Lectures will make up 60% of the total hours; the activities, seminars and the projection of films 30%; site visits 10%.

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 assessment will be based on the oral exam aimed at ascertaining the knowledge and the critical skills acquired.
Please, check the dates of the exams on professor’s webpage.

COURSE DESCRIPTION
SURVEY OF ARCHITECTURE

SSD: DISEGNO (ICAR/17)

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

COURSE DESCRIPTION

TEACHER: DI LUGGO ANTONELLA
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GENERAL INFORMATION ABOUT THE COURSE

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

REQUIRED PRELIMINARY COURSES

Fondamenti e applicazioni di Geometria Descrittiva

PREREQUISITES

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

LEARNING GOALS

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

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

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

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

Applying knowledge and understanding

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

FURTHER EXPECTED LEARNING OUTCOMES, relating to:

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

COURSE CONTENT/SYLLABUS

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

makes use of new technologies.
Subjects
Fundamentals of the discipline, finalities of survey, scales of survey.
Reading architecture: parts and elements, layout geometries.
Measurement: elements of metrology, error and uncertainty in surveying.
Cartographic references: historical cartography and current cartography.
Photography in survey.
Survey and representation of the vaults.
Direct survey: methods and tools for direct planimetric and direct altimetric survey.
Photogrammetric survey: terrestrial and aerial photogrammetry, methods for photographic shooting and data processing.
3D digital survey: laser scanner survey
Indirect survey: methods and tools for indirect survey.
GPS survey.
Themes: materials survey, cromatic survey, xstructural survey, masonry survey, degradation survey, diagnostic survey.

READINGS/BIBLIOGRAPHY

The teaching material will be provided during the lessons with online references and with the most recent articles relating to researches in the field of surveying.
Reference text:
M. DOCCI, D. MAESTRI, *Manuale di rilevamento architettonico,* Laterza, Roma-Bari, 2004

TEACHING METHODS OF THE COURSE (OR MODULE)

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

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☑ Oral
- ☑ Project discussion
- ☐ Other

In case of a written exam, questions refer to

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

b) Evaluation pattern

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

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

COURSE DESCRIPTION
SURVEY OF ARCHITECTURE

SSD: DISEGNO (ICAR/17)

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

COURSE DESCRIPTION

TEACHER: RINO FULVIO
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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: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES

Descriptive Geometry

PREREQUISITES

You cannot be admitted to take the Architecture Survey exam if you have not passed the Descriptive Geometry exam.

LEARNING GOALS

- the theoretical principles underlying the survey of architecture;
- the survey of architecture, understood both as a metric, material, constructive and morphological investigation and restitution of its articulation, and as a critical and descriptive evaluation of its visible and invisible form;
- the basic principles of traditional and IT techniques in use for the survey of architecture;
- the critical reading tools of the forms of representation used in the architectural survey.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The expected learning outcomes are:

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

Applying knowledge and understanding

The student must demonstrate that they can critically read architecture and understand its meanings; you must be able to understand the problems and implications relating to the various relevant methodologies, starting from traditional acquisition methods up to the latest generation ones.

The training course aims to provide students with the knowledge and methodological tools necessary to detect and document an architectural artefact in its complexity.

COURSE CONTENT/SYLLABUS

Relief of architecture as a process of knowledge of what exists

Process to be pursued for the selection of the data to be collected, the detection methods and the documentation of the results achieved

Relationship between quantitative and qualitative data

The multiple forms of the representation of the architectural relief: verb / visual / numerical elaborations

Analog representation and digital representation

Exercises and tests

READINGS/BIBLIOGRAPHY

During the course, teaching and bibliographic material will be provided from time to time reference in relation to the performance and progress of the teaching process. The
material provided will range from the indication of texts, from examples and multimedia supports, from software sector and other cartographic and digital material.

TEACHING METHODS OF THE COURSE (OR MODULE)

The teaching will be provided in the form of a permanent laboratory, which will also include the topics of frontal teaching. With reference to blended teaching, where necessary, laboratory activities will be video recorded and posted on the teacher's web page.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- [ ] Written
- [x] Oral
- [x] Project discussion
- [x] Other : Discussion of the three scheduled tests to verify the learning of the topics covered.

In case of a written exam, questions refer to

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

b) Evaluation pattern

To pass the exam, students must:
demonstrate that they have understood the topics covered in the course;
demonstrate knowledge of the texts indicated to them;
having performed the tests and exercises assigned to them.
The final result will be the result of the gradual maturation demonstrated by the student during the course, to which the evaluation, during the examination, of the ability to elaborate and synthesize the topics covered must be added.

COURSE DESCRIPTION
ARCHITECTURAL AND URBAN COMPOSITION STUDIO 3

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

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

COURSE DESCRIPTION

TEACHER: MULTARI GIOVANNI
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 27179 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 3-ARCH.DEL PAESAGGIO
MODULE: 27185 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 3
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

Architectural and urban composition studio 2

PREREQUISITES

None

LEARNING GOALS

Objective of the teaching of the Architectural and Urban Composition Laboratory, with the integration of Landscape Architecture and in line with the structure of the CdS, is to introduce the theme of architecture that interprets the existing by investigating the urban dimension in relation to the scenarios architectural, through strategic action and procedural work capable of determining the principal educational objective: to increase the level of awareness of each student, according to a gradual e progressiveness consistent with the structure of the CdS. The course aims to provide students with the following basic elements: - The tools and procedures of the architectural and urban project starting from the recognition of the relationships and connections that determine

the investigation and reading of the existing in order to evaluate the possible project scenarios, interpreting the year's theme at the base experimentation in the didactic field; - the integration of architectural and urban choices with landscape architecture, object of the integrated module, intended as a whole of an overall reasoning on the theme, methods and procedures suitable for defining a project in relation to the questions and needs posed by the community ; - the necessary critical skills for the interpretation of the architectural theme in relation to the construction aspects and the solutions adopted through the study of specific references and case studies; - the upgrade of tools and techniques already acquired in order to draw up documents capable of clearly describing the projects on both the architectural and urban scales, investigating the different scales of the project also with the support of schemes, diagrams and models; - the levels of complexity investigated and studied in the third year laboratory link principles, theories and methods acquired in the first two years of the laboratory with the issues and themes that are the subject of the fourth and fifth year laboratories, in order to acquire specific skills and abilities which will be fundamental to foster the necessary level of awareness, the main educational objective of the teaching. Through the elaboration of the project which includes interventions on the built and urban and landscape redevelopment, the Laboratory aims to train and organize the skills related to the control methods of the different phases of the design process, from the development of the idea up to the drafting of the documents, with sufficient degrees of depth and detail.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must demonstrate knowledge and understanding of the problems relating to the existing, its potential and critical issues. He must demonstrate that he knows how to elaborate arguments concerning the relationships between the urban parts, the existing buildings and the new additions; you must demonstrate that you have understood the theories, principles and methods that govern the architectural project and its connection with the urban dimension. It must be able to recognize the thematic dimension and its necessary connection with the existing in its various articulations and different scales, in its relations with the territory and the city. Must demonstrate critical ability to show 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 educational organization. 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 with a level of complexity commensurate with the third year of training and closely integrated with the knowledge and practices provided by the Landscape Architecture module.

Applying knowledge and understanding

The student must demonstrate understanding of the theories, principles and methods that govern the project architecture and its connection with the urban dimension. He must be able to recognize the thematic dimension and its necessary connection with the interpretation of the existing in its various articulations and different scales, in its relations with the territory and the city. He must demonstrate critical exposure skills acquired knowledge and the phases of the work carried out, highlighting the individual contribution and that of the work collective of the laboratory's educational organization. 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 with a level of complexity commensurate with the third year of training and closely integrated with the knowledge and practices provided by the Landscape Architecture module.

COURSE CONTENT/SYLLABUS

Architectural and Urban Composition Laboratory Module (8 CFU)
- The theme of living and spaces for training
- Knowledge tools of the site under study
- investigation tools for the project
- regeneration of the existing and relations with the open space.
- common space and public space
- possible transformation processes
- community, heritage and memory.
- the study area and didactic experimentation

READINGS/BIBLIOGRAPHY

Area 176. Places of learning, Milan May / Jun 2021.
R. De Ciechi, A. Femia, Social Impact School, 500x100 Publishers, Milan 2021.
Cristoforoni G., Bagnoli yesterday and today, Intra Moenia editions, 2015.
Greco P., The city of science. Story of a dream in Bagnoli, Ed. Bollati Boringhieri, 2006.
Dall'Occhio G. (cur), Bagnoli. Photographic history of Ilva-Italsider from birth to dismantling at Bagnolifutura. Ediz. Illustrata, published by La Città del Sole, 2010.
Persico G., The abandoned city. Spaces consumed and desires. The former Italsider and Eternit areas of Bagnoli, Ed.Tullio Pironti, Naples, 2002.
Lepore D., The reuse of the Bagnoli area, in Belli A. (edited), It's not that easy. Urban policies in Naples at the turn of the century, Franco Angeli, Milan 2007.
Multari G., Neapolis. Living as student, Aracne Editrice, Canterano 2018.
Pugliese M, The garden of Drapia. A participatory landscape project, Librìa publisher, Melfi (PZ) 2011.
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 (plans, models three-dimensional)

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use: a) lectures for about 10% of the total hours, b) exercises to deepen practically 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
- [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 grade, based on the results and skills demonstrated in the discussion of the project as well as the themes of Landscape Architecture, will be weighted on the CFU of each course and therefore composed as follows: Landscape Architecture Module 6CFU; Workshop module of Architectural and Urban Composition 8CFU.

COURSE DESCRIPTION
ARCHITECTURAL AND URBAN COMPOSITION STUDIO 3

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

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

COURSE DESCRIPTION

TEACHER: FATIGATO ORFINA FRANCESCA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 27179 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 3-ARCH.DEL PAESAGGIO
MODULE: 27185 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 3
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

ARCHITECTURAL AND URBAN COMPOSITION studio 2

PREREQUISITES

none

LEARNING GOALS

Objective of the teaching of the Architectural and Urban Composition Laboratory, with the integration of Landscape Architecture and in line with the structure of the CdS, is to introduce the theme of architecture that interprets the existing by investigating the urban dimension in relation to the scenarios architectural, through strategic action and procedural work capable of determining the principal educational objective: to increase the level of awareness of each student, according to a gradual e progressiveness consistent with the structure of the CdS. The course aims to provide students with the following basic elements: - The tools and procedures of the architectural and urban project starting from the recognition of the relationships and connections that determine

the investigation and reading of the existing in order to evaluate the possible project scenarios, interpreting the year's theme at the base experimentation in the didactic field; - the integration of architectural and urban choices with landscape architecture, object of the integrated module, intended as a whole of an overall reasoning on the theme, methods and procedures suitable for defining a project in relation to the questions and needs posed by the community ; - the necessary critical skills for the interpretation of the architectural theme in relation to the construction aspects and the solutions adopted through the study of specific references and case studies; - the upgrade of tools and techniques already acquired in order to draw up documents capable of clearly describing the projects on both the architectural and urban scales, investigating the different scales of the project also with the support of schemes, diagrams and models; - the levels of complexity investigated and studied in the third year laboratory link principles, theories and methods acquired in the first two years of the laboratory with the issues and themes that are the subject of the fourth and fifth year laboratories, in order to acquire specific skills and abilities which will be fundamental to foster the necessary level of awareness, the main educational objective of the teaching. Through the elaboration of the project which includes interventions on the built and urban and landscape redevelopment, the Laboratory aims to train and organize the skills related to the control methods of the different phases of the design process, from the development of the idea up to the drafting of the documents, with sufficient degrees of depth and detail.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Knowledge and understanding

The student must demonstrate knowledge and understanding of the problems relating to the existing, its potential and critical issues. He must demonstrate that he knows how to elaborate arguments concerning the relationships between the urban parts, the existing buildings and the new additions; you must demonstrate that you have understood the theories, principles and methods that govern the architectural project and its connection with the urban dimension. It must be able to recognize the thematic dimension and its necessary connection with the existing in its various articulations and different scales, in its relations with the territory and the city. Must demonstrate critical ability to show 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 educational organization. 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 with a level of complexity commensurate with the third year of training and closely integrated with the knowledge and practices provided by the Landscape Architecture module. .

Applying knowledge and understanding

The student must demonstrate understanding of the theories, principles and methods that govern the project architecture and its connection with the urban dimension. He must be able to recognize the thematic dimension and its necessary connection with the interpretation of the existing in its various articulations and different scales, in its relations with the territory and the city. He must demonstrate critical exposure skills acquired knowledge and the phases of the work carried out,

highlighting the individual contribution and that of the work collective of the laboratory's educational organization. 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 with a level of complexity commensurate with the third year of training and closely integrated with the knowledge and practices provided by the Landscape Architecture module. .

COURSE CONTENT/SYLLABUS

Architectural and Urban Composition Laboratory Module (8 CFU)
Phases of project work articulation:
01_Immersion. Multidimensional project-oriented knowledge: Readings, Dialogues, Visions
02_Strategy. Process strategy for transformation: Processes, Time, Scenarios
03_Transition. Interscalar project experiments: Actions, Experiments, Narratives
Topics and Themes:
- The theme of living and training spaces
- Relationship between residence, neighbourhood, city.
- Domestic, intermediate, common, public space.
- Regeneration of the existing and relations with open space.
- Community, heritage and memory.

READINGS/BIBLIOGRAPHY

Area 176. Places of learning, Milano mag/giu 2021.
R. De Ciechi, A. Femia, Scuola Social Impact, 500x100 Publishers, Milano 2021.
Catalogo esposizione Habiter Plus, Habiter mieux, Pavillon de l’Arsenale, Parigi, 2018.
Lotus 163 (2017),
Housing in Expanded Fields Amann-Canovas-Maruri, Urban Living. Vivienda Colectiva 2 (2017)
https://issuu.com/tccuadernos/docs/temas_18_canovas_extracto
E. Narne, F. Cacciatore, Il vuoto condiviso: spazialità complesse nelle residenze contemporanee, Marisilio, Padova, 2016
Cristoforoni G., Bagnoli ieri e oggi, Intra Moenia edizioni, 2015.
O. Fatigato, I grands ensembles una “singolare plurale” eredità, in «BDC», vol.15, n.2.
Greco P., La città della scienza. Storia di un sogno a Bagnoli, Ed. Bollati Boringhieri, 2006.
Dall'Occhio G. (cur), Bagnoli. Storia fotografica dell'Ilva-Italsider dalla nascita allo smantellamento alla Bagnolifutura. Ediz. Illustrata, edito da La Città del Sole, 2010.
Persico G., La città dismessa. Spazi consumati e desideri. Le aree ex Italsider ed Eternit di Bagnoli, Ed. Tullio Pironti, Napoli, 2002.
Lepore D., Il riuso dell’area di Bagnoli, in Belli A. (a cura), Non ècosì facile. Politiche urbane a Napoli a cavallo del secolo, Franco Angeli, Milano 2007.
F. Druot, A. Lacaton, J.-P. Vassal, plus, Edizioni Gustavo Gili SL, Barcellona 2007.
Multari G., Neapolis. Living as student, Aracne Editrice, Canterano 2018.
G. Perec, La vita istruzioni per l’uso, Rizzoli (varie edizioni).
J.G. Ballard, Il condominio, prima pubblicazione 1975 (varie edizioni).

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 (plans, models three-dimensional)

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use: a) lectures for about 10% of the total hours, b) exercises to deepen practically 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

COURSE DESCRIPTION
ARCHITECTURAL AND URBAN COMPOSITION STUDIO 3

SSD: COMPOSIZIONE ARCHITETTONICA E URBANA (ICAR/14)

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

COURSE DESCRIPTION

TEACHER: GALANTE PAOLA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 27179 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 3-ARCH.DEL PAESAGGIO
MODULE: 27185 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 3
CHANNEL:
YEAR OF THE DEGREE PROGRAMME: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

ARCHITECTURAL AND URBAN COMPOSITION studio 3 - LANDSCAPE ARCHITECTURE

PREREQUISITES

None

LEARNING GOALS

Objective of the teaching of the Architectural and Urban Composition Laboratory, with the integration of Landscape Architecture and in line with the structure of the CdS, is to introduce the theme of architecture that interprets the existing by investigating the urban dimension in relation to the scenarios architectural, through strategic action and procedural work capable of determining the principal educational objective: to increase the level of awareness of each student, according to a graduale progressiveness consistent with the structure of the CdS. The course aims to provide students with the following basic elements:

- The tools and procedures of the architectural and urban project starting from the recognition of the relationships and connections that determine the investigation and reading of the existing in order to evaluate the possible project scenarios, interpreting the year's theme at the base experimentation in the didactic field;
- the integration of architectural and urban choices with landscape architecture, object of the integrated module, intended as a whole of an overall reasoning on the theme, methods and procedures suitable for defining a project in relation to the questions and needs posed by the community;
- the necessary critical skills for the interpretation of the architectural theme in relation to the construction aspects and the solutions adopted through the study of specific references and case studies;
- the upgrade of tools and techniques already acquired in order to draw up documents capable of clearly describing the projects on both the architectural and urban scales, investigating the different scales of the project also with the support of schemes, diagrams and models;
- the levels of complexity investigated and studied in the third year laboratory link principles, theories and methods acquired in the first two years of the laboratory with the issues and themes that are the subject of the fourth and fifth year laboratories, in order to acquire specific skills and abilities which will be fundamental to foster the necessary level of awareness, the main educational objective of the teaching.

Through the elaboration of the project which includes interventions on the built and urban and landscape redevelopment, the Laboratory aims to train and organize the skills related to the control methods of the different phases of the design process, from the development of the idea up to the drafting of the documents, with sufficient degrees of depth and detail.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must demonstrate knowledge and understanding of the problems relating to the existing, its potential and critical issues. He must demonstrate that he knows how to elaborate arguments concerning the relationships between the urban parts, the existing buildings and the new additions; you must demonstrate that you have understood the theories, principles and methods that govern the architectural project and its connection with the urban dimension. It must be able to recognize the thematic dimension and its necessary connection with the existing in its various articulations and different scales, in its relations with the territory and the city. Must demonstrate critical ability to show 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 educational organization. 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 with a level of complexity commensurate with the third year of training and closely integrated with the knowledge and practices provided by the Landscape Architecture module.

Applying knowledge and understanding

The student must demonstrate understanding of the theories, principles and methods that govern the project architecture and its connection with the urban dimension. He must be able to recognize the thematic dimension and its necessary connection with the interpretation of the existing in its various articulations and different scales, in its relations with the territory and the city. He must demonstrate critical exposure skills acquired knowledge and the phases of the work carried out, highlighting the individual contribution and that of the work collective of the laboratory's educational organization. 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 with a level of complexity commensurate with the third year of training and closely integrated with the knowledge and practices provided by the Landscape Architecture module.

COURSE CONTENT/SYLLABUS

- The theme of living and spaces for training
- Knowledge tools of the site under study - investigation tools for the project
- regeneration of the existing and relations with the open space.
- common space and public space - possible transformation processes
- community, heritage and memory.
- the study area and didactic experimentation

READINGS/BIBLIOGRAPHY

Area 176. Places of learning, Milan May / Jun 2021. R. De Ciechi, A. Femia, Social Impact School, 500x100 Publishers, Milan 2021.
Cristoforoni G., Bagnoli yesterday and today, Intra Moenia editions, 2015.
Ferlenga A. City and memory as tools of the project, Marinotti Edizioni, Milano 2015.
Galante P., The Landscapes of Elia Zenghelis, Lettera 22, Siracusa 2022. Galante P., Hi Suk, Workable space, Ermes Edizioni Scientifiche, 2016.
Officina 34. Places of learning, Arteferma Edizioni, lug./ago./sett. 2021.
Greco P., The city of science. Story of a dream in Bagnoli, Ed. Bollati Boringhieri, 2006.
Dall'Occhio G. (cur), Bagnoli. Photographic history of Ilva-Italsider from birth to dismantling at Bagnolifutura. Ediz. Illustrata, published by La Città del Sole, 2010.
Persico G., The abandoned city. Spaces consumed and desires. The former Italsider and Eternit areas of Bagnoli, Ed.Tullio Pironti, Naples, 2002.
Lepore D., The reuse of the Bagnoli area, in Belli A. (edited), It's not that easy. Urban policies in Naples at the turn of the century, Franco Angeli, Milan 2007.
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 (plans, models three-dimensional)

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use: a) lectures for about 10% of the total hours, b) exercises to deepen practically 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
- [x] Oral
- [x] Project discussion
- [ ] Other

In case of a written exam, questions refer to

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

b) Evaluation pattern

The final grade, based on the results and skills demonstrated in the discussion of the project as well as the themes of Landscape Architecture, will be weighted on the CFU of each course and therefore composed as follows: Landscape Architecture Module 6CFU; Workshop module of Architectural and Urban Composition 8CFU.

COURSE DESCRIPTION
ARCHITECTURE OF LANDSCAPE

SSD: ARCHITETTURA DEL PAESAGGIO (ICAR/15)

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

COURSE DESCRIPTION

TEACHER: GIOFFRE' VINCENZO
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EMAIL: vincenzo.gioffre@unina.it

GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 27179 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 3-ARCH.DEL PAESAGGIO
MODULE: 01579 - ARCHITETTURA DEL PAESAGGIO
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 6

REQUIRED PRELIMINARY COURSES

ARCHITECTURAL AND URBAN COMPOSITION studio 2

PREREQUISITES

no prerequisites

LEARNING GOALS

Objective of the teaching of the Architectural and Urban Composition Laboratory, with the integration of Landscape Architecture and in line with the structure of the CdS, is to introduce the theme of architecture that interprets the existing by investigating the urban dimension in relation to the architectural scenarios, through strategic action and procedural work capable of determining the principal educational objective: to increase the level of awareness of each student, according to a gradual progressiveness consistent with the structure of the CdS. The course aims to provide students with the following basic elements: - The tools and procedures of the architectural and urban project starting from the recognition of the relationships and connections that determine the

investigation and reading of the existing in order to evaluate the possible project scenarios, interpreting the year's theme at the base experimentation in the didactic field; - the integration of architectural and urban choices with landscape architecture, object of the integrated module, intended as a whole of an overall reasoning on the theme, methods and procedures suitable for defining a project in relation to the questions and needs posed by the community ; - the necessary critical skills for the interpretation of the architectural theme in relation to the construction aspects and the solutions adopted through the study of specific references and case studies; - the upgrade of tools and techniques already acquired in order to draw up documents capable of clearly describing the projects on both the architectural and urban scales, investigating the different scales of the project also with the support of schemes, diagrams and models; - the levels of complexity investigated and studied in the third year laboratory link principles, theories and methods acquired in the first two years of the laboratory with the issues and themes that are the subject of the fourth and fifth year laboratories, in order to acquire specific skills and abilities which will be fundamental to foster the necessary level of awareness, the main educational objective of the teaching. Through the elaboration of the project which includes interventions on the built and urban and landscape redevelopment, the Laboratory aims to train and organize the skills related to the control methods of the different phases of the design process, from the development of the idea up to the drafting of the documents, with sufficient degrees of depth and detail.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Knowledge and understanding

The student must demonstrate knowledge and understanding of the problems relating to the existing, its potential and critical issues. He must demonstrate that he knows how to elaborate arguments concerning the relationships between the urban parts, the existing buildings and the new additions; you must demonstrate that you have understood the theories, principles and methods that govern the architectural project and its connection with the urban dimension. It must be able to recognize the thematic dimension and its necessary connection with the existing in its various articulations and different scales, in its relations with the territory and the city.

Applying knowledge and understanding

Applying knowledge and understanding

The student 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 aim of the laboratory is to provide the student with the conceptual and technical tools of architectural and urban composition to tackle a project with a level of complexity commensurate with the third year of training and closely integrated with the knowledge and practices provided by the Landscape Architecture module.

COURSE CONTENT/SYLLABUS

The Landscape Architecture Module (6 CFU) focuses on the following topics:

- evolution of the concept of landscape
- the great masters of the twentieth century
- leading international schools of landscape design
- urban public space and contemporary landscape projects
- approaches to reading and interpreting the landscape
- planning strategies and actions for public space and landscape

READINGS/BIBLIOGRAPHY

Bibliography

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P. Grimal (2005), *The art of the Gardens, a short history,* Donzelli publisher
I. McHarg (2007), *Designing with nature,* Franco Muzzio Editore
M. Jacob (2009), *The landscape, Il Mulino*
M. Desvigne (2009), *Intermediate natures. The landscapes of Micheal Desvigne,* Birkhäuser
V. Gioffrè (2018), *Latent Landscape,* Letteraventidue edizioni

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use: a) lectures for about 10% of the total hours, b) exercises to deepen practically 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 project as well as the themes of Landscape Architecture, will be weighted on the CFU of each course and therefore composed as follows: Landscape Architecture Module 6CFU; Workshop module of Architectural and Urban Composition 8CFU.

COURSE DESCRIPTION
ARCHITECTURE OF LANDSCAPE

SSD: ARCHITETTURA DEL PAESAGGIO (ICAR/15)

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

COURSE DESCRIPTION

TEACHER: PAGANO LILIA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 27179 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 3-ARCH.DEL PAESAGGIO
MODULE: 01579 - ARCHITETTURA DEL PAESAGGIO
CHANNEL: 03 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 6

REQUIRED PRELIMINARY COURSES

None

PREREQUISITES

None

LEARNING GOALS

The objective of the Landscape Architecture course, in agreement with the Architectural and Urban Composition Laboratory with which it is integrated, and in keeping with the structure of the degree course, is to provide students with a basic knowledge base, both historical-critical and design-related, specific to the design of open spaces in the consolidated city. The expected results consist in the acquisition by students of basic knowledge on the evolution of the concept of landscape and on the multiple declinations that it takes on in the contemporary world; on the in-depth study of case studies concerning new contemporary landscapes realised on the international scene and considered of particular relevance for their originality, design quality, and

programme of activities that can be carried out; on the main international landscape schools; on the application of design notions centred on the use of materials and forms taken from nature.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must demonstrate an understanding of the theories, principles and methods that govern the design of public space and its connection with the urban dimension. He/she must be able to recognise the thematic dimension and its necessary connection with the formal and figural interpretation of the adoption of mineral and vegetal materials, in its different scalar articulations and in its relations with the city.

Applying knowledge and understanding

The student must demonstrate a critical capacity to present the knowledge acquired and the phases of the work carried out, emphasising the individual contribution and that of the collective work proper to the didactic organisation of the workshop. The objective of the workshop is to provide the student with the conceptual and technical tools proper to the Design of Open Spaces commensurate with the third year of training and closely related to the acquisitions provided.

COURSE CONTENT/SYLLABUS

The Landscape Architecture Module (6 CFU) focuses on the following topics: - evolution of the landscape concept - the great authors of the 20th century - main international landscape design schools - urban public space and contemporary landscape projects

READINGS/BIBLIOGRAPHY

Bibliography G. Clément (2005), *Manifesto del terzo paesaggio*, Quodlibet P. Grimal (2005), *L'arte dei Giardini, una breve storia*, Donzelli editore I. McHarg (2007), *Progettare con la natura*, Franco Muzzio Editore M. Jacob (2009), *Il paesaggio*, il Mulino M. Desvigne (2009), *Intermediate natures. The landscapes of Micheal Desvigne*, Birkhäuser V. Gioffrè (2018), *Latent Landscape*, Letteraventidue edizioni

TEACHING METHODS OF THE COURSE (OR MODULE)

The lecturer will use: a) face-to-face lectures for approximately 10% of the total hours, b) tutorials to deepen theoretical aspects for 10% of the total hours c) laboratory to deepen applied knowledge for 70% of the total hours d) seminars to deepen specific topics for 10% of the total hours. The lectures and in-depth seminars may also be delivered through multimedia support and with the aid of on-line materials. The exercises and the laboratory will be carried out in the classroom through the use of suitable instruments for the drafting of the papers and models.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

☐ Written

☑ Oral

- [x] Project discussion
- [ ] Other

In case of a written exam, questions refer to

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

b) Evaluation pattern

COURSE DESCRIPTION
ARCHITECTURE OF LANDSCAPE

SSD: ARCHITETTURA DEL PAESAGGIO (ICAR/15)

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

COURSE DESCRIPTION

TEACHER: BOURSIER LUCA
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: 27179 - LABORATORIO DI COMPOSIZIONE ARCHITETTONICA E URBANA 3-ARCH.DEL PAESAGGIO
MODULE: 01579 - ARCHITETTURA DEL PAESAGGIO
CHANNEL:
YEAR OF THE DEGREE PROGRAMME: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 6

REQUIRED PRELIMINARY COURSES

ARCHITECTURAL AND URBAN COMPOSITION studio 2

PREREQUISITES

None

LEARNING GOALS

Objective of the teaching of the Architectural and Urban Composition Laboratory, with the integration of Landscape Architecture and in line with the structure of the CdS, is to introduce the theme of architecture that interprets the existing by investigating the urban dimension in relation to the architectural scenarios, through strategic action and procedural work capable of determining the principal educational objective: to increase the level of awareness of each student, according to a gradual progressiveness consistent with the structure of the CdS.
The course aims to provide students with the following basic elements:

- The tools and procedures of the architectural and urban project starting from the recognition of the relationships and connections that determine the investigation and reading of the existing in order to evaluate the possible project scenarios, interpreting the year's theme at the base experimentation in the didactic field;
- the integration of architectural and urban choices with landscape architecture, object of the integrated module, intended as a whole of an overall reasoning on the theme, methods and procedures suitable for defining a project in relation to the questions and needs posed by the community;
- the necessary critical skills for the interpretation of the architectural theme in relation to the construction aspects and the solutions adopted through the study of specific references and case studies;
- the upgrade of tools and techniques already acquired in order to draw up documents capable of clearly describing the projects on both the architectural and urban scales, investigating the different scales of the project also with the support of schemes, diagrams and models;
- the levels of complexity investigated and studied in the third year laboratory link principles, theories and methods acquired in the first two years of the laboratory with the issues and themes that are the subject of the fourth and fifth year laboratories, in order to acquire specific skills and abilities which will be fundamental to foster the necessary level of awareness, the main educational objective of the teaching.

Through the elaboration of the project which includes interventions on the built and urban and landscape redevelopment, the Laboratory aims to train and organize the skills related to the control methods of the different phases of the design process, from the development of the idea up to the drafting of the documents, with sufficient degrees of depth and detail.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student must demonstrate knowledge and understanding of the problems relating to the existing, its potential and critical issues. He must demonstrate that he knows how to elaborate arguments concerning the relationships between the urban parts, the existing buildings and the new additions; you must demonstrate that you have understood the theories, principles and methods that govern the architectural project and its connection with the urban dimension. It must be able to recognize the thematic dimension and its necessary connection with the existing in its various articulations and different scales, in its relations with the territory and the city.

Applying knowledge and understanding

The student 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 aim of the laboratory is to provide the student with the conceptual and technical tools of architectural and urban composition to tackle a project with a level of complexity commensurate with the third year of training and closely integrated with the knowledge and practices provided by the Landscape Architecture module.

COURSE CONTENT/SYLLABUS

The Landscape Architecture Module (6 CFU) focuses on the following topics:
- evolution of the concept of landscape
- the great masters of the twentieth century
- leading international schools of landscape design
- urban public space and contemporary landscape projects
- approaches to reading and interpreting the landscape
- planning strategies and actions for public space and landscape

READINGS/BIBLIOGRAPHY

G. Clément (2005), Manifesto of the third landscape, Quodlibet
P. Grimal (2005), The art of the Gardens, a short history, Donzelli publisher
I. McHarg (2007), Designing with nature, Franco Muzzio publisher
M. Desvigne (2009), Intermediate natures. The landscapes of Micheal Desvigne, Birkhäuser
F. Zagari (2009), Gardens, Garden Design Manual, Mancosu publisher, Rome
Lotus 168, Within the Bounds and on the Border 2019
All the issues of the magazines: Topos, Paisea, revista di paisajismo, Landscape Architecture, Topscape Paysage, Landscape Architecture (AIAPP)

TEACHING METHODS OF THE COURSE (OR MODULE)

The teacher will use: a) lectures for about 10% of the total hours, b) exercises to deepen practically 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 project as well as the themes of Landscape Architecture, will be weighted on the CFU of each course and therefore composed as follows: Landscape Architecture Module 6CFU; Workshop module of Architectural and Urban Composition 8CFU.

COURSE DESCRIPTION
TECHNIQUE OF URBAN AND TERRITORIAL PLANNING

SSD: TECNICA E PIANIFICAZIONE URBANISTICA (ICAR/20)

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

COURSE DESCRIPTION

TEACHER: SGOBBO ALESSANDRO
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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
CHANNEL: 02 Cognome A - Z
YEAR OF THE DEGREE PROGRAMME: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 6

REQUIRED PRELIMINARY COURSES

Fondamenti di Urbanistica

PREREQUISITES

Nothing

LEARNING GOALS

The course provides students with the methods and technical knowledge of urban and territorial planning and design and the basic skills for understanding and developing of both town and regional plans

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student, aware of some structural features of the great transformation that societies and territories are experiencing, in globalization, must demonstrate the ability to theoretically and methodologically structure planning and urban planning activities on an urban, general and

implementation scale and on a territorial scale by confronting its different degrees of complexity, with the different areas of its application and with the questions posed by the legislation in force. In addition, the student must be able to update or expand their knowledge by independently drawing on texts, scientific articles and technical standards of the local government. To this end, the course provides the student with indications and suggestions useful for their continuous updating and the progressive enrichment of their skills.

Applying knowledge and understanding

The student must demonstrate possession of the basic skills necessary for the activity of drafting urban plans on a general and implementation scale and territorial plans, in accordance with the legislative framework in force and in compliance with the guiding principles of modern territorial planning and governance.

In addition the student:

must be able to autonomously assess the environmental, ecological, cultural and socio-economic needs of the territory subject to planning; support the competent administrations in territorial government decisions; autonomously evaluate the coherence of the given directions with the framework of the superordinate and sectoral planning

must be able to: communicate, through graphic and verbal/textual elaborations, the principles, rules and norms that govern the planned territory, providing a clear and understandable framework, even to subjects without specific technical skills, of the discipline of the soil, of the objectives of the plan, of the monitoring tools.

COURSE CONTENT/SYLLABUS

The course will cover the following topics:

1st part of the law

•Law 17 August 1942, n. 1150 - Town planning law;

•Law 6 August 1967, no. 765 - Bridge law;

•Interministerial decree 2 April 1968, n. 1444;

•Presidential Decree 6 June 2001, no. 380 - Consolidated text of legislative and regulatory provisions on building matters;

•Regional Law 22 December 2004 n. 16 - Rules on the government of the territory;

•Regional Regulation no. 5 of 4 August 2011 - Implementing regulation for the government of the territory;

2nd part Urban planning vocabulary and decision support

•Building indices and parameters

•Town planning indices and parameters

•SWOT Analysis;

•Planning levels;

•Sizing of plans;

•Town Planning Standards

3rd part Sustainability of plans

•Urban densification;
•Resilience;
•Water Sensitive Urban Planning

READINGS/BIBLIOGRAPHY

Teaching aids provided by the teacher;
Extracts and readings provided by the teacher;
Guido Colombo, Fortunato Pagano, Mario Rossetti: Manuale di urbanistica. Ed. Il Sole 24 Ore;
Alessandro Sgobbo: Water Sensitive Urban Planning. INU Edizioni;
Enrico Dalfino: Lessico giuridico dell'edilizia e dell'urbanistica - ed. Laterza.

TEACHING METHODS OF THE COURSE (OR MODULE)

Teaching is organized through theoretical lessons (70%) and practical exercises (30%) developed according to a challenge-based teaching methodology. Students are assigned problems and questions to be addressed without prior preparation, in teams and with defined times. The theoretical lessons address ex post the themes of the proposed challenge by appropriately framing the skills acquired in the exercise. The course is divided into successive moments at the end of which intermediate learning tests are proposed. The first part concerns the legislation of the sector, the urban indices and the territorial indicators; the second period focuses on decision support techniques; the third part focuses on issues concerning the sizing of planning tools and the opportunities for responding to the needs of the territory; the final part focuses on urban densification and regeneration strategies.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

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

In case of a written exam, questions refer to

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

b) Evaluation pattern

The assessment of learning takes place through exams and a final written and oral exam with an examination of the exercises carried out during the course.

COURSE DESCRIPTION
TECHNIQUE OF URBAN AND TERRITORIAL PLANNING

SSD: TECNICA E PIANIFICAZIONE URBANISTICA (ICAR/20)

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

COURSE DESCRIPTION

TEACHER: VARONE FRANCESCO
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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: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 6

REQUIRED PRELIMINARY COURSES

Fondamenti di Urbanistica

PREREQUISITES

Nothing

LEARNING GOALS

The aim of the course is to build a training itinerary focusing on the general and specific features of the discipline - from Theory to Operational Practice - through four cognitive levels:
1. The theory (history, methodologies) has as its reference the disciplinary corpus that characterizes modern urban planning, through theoretical proposals, experiences and critical contributions,
2. The technique, (constituent elements), deals with the methodological and technical construction of the general and detailed urban plan and of the latter also in relation to the disciplines of urban design;

3. The form of transformations, (the spatial aspects), proposed in relation to the results that the theories and experiences of modern urban planning have achieved in the construction of the city and the territory;

4. The government of transformations, (the institutions) or the legislative instruments of urban planning.
The training process must, therefore, contemplate a set of knowledge that allows the learning of both general theoretical and operational features, as urban planning and the technique related to it is a practical discipline - that is, exercise, application, way of doing, comparison with reality - that closely combines knowledge and experience, and teaching cannot be limited to theoretical elaboration but to "concrete" doing, to acting in real processes and their complexity.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The student, aware of some structural features of the great transformation that societies and territories are experiencing, in globalization, must demonstrate the ability to theoretically and methodologically structure planning and urban planning activities on an urban, general an implementation scale and on a territorial scale by confronting its different degrees of complexity, with the different areas of its application and with the questions posed by the legislation in force.
In addition, the student must be able to update or expand their knowledge by independently drawing on texts, scientific articles and technical standards of the local government. To this end, the course provides the student with indications and suggestions useful for their continuous updating and the progressive enrichment of their skills.

Applying knowledge and understanding

The student must demonstrate possession of the basic skills necessary for the activity of drafting urban plans on a general and implementation scale and territorial plans, in accordance with the legislative framework in force and in compliance with the guiding principles of modern territorial planning and governance.
In addition the student:
must be able to autonomously assess the environmental, ecological, cultural and socio-economic needs of the territory subject to planning; support the competent administrations in territorial government decisions; autonomously evaluate the coherence of the given directions with the framework of the superordinate and sectoral planning
must be able to: communicate, through graphic and verbal/textual elaborations, the principles, rules and norms that govern the planned territory, providing a clear and understandable framework, even to subjects without specific technical skills, of the discipline of the soil, of the objectives of the plan, of the monitoring tools.

COURSE CONTENT/SYLLABUS

The program includes the following topics

Part One: from modern to contemporary urban planning (general theories, tools and

methods)

- The birth of modern urbanism: the industrial revolution and the city, The Utopias and the modern city, the post-liberal city.
- The construction of the modern city: Paris (Haussman), Barcelona (Cerdà), Amsterdam (Van Eesteren)
- The Contemporary City: The paradigm of sustainability and Urban Regeneration

Part Two: The evolution of the Piano form in Italy (theories, tools and methods)

- From recovery plans to general land use plan
- The planning "model" in Italy: types and purposes of plans.
- From the General Town Plan to the Town Urban Plan;

Part Three: The construction of the Municipal Urban Plan (tools, methods, techniques, elaborations)

- Zoning, urban standards;
- Urban Indices and Parameters;
- The sizing of the plan
- The study of the territory and the city: The cognitive framework for the drafting of the P.U.C.
- The study of the territory and the city: investigations on the natural and urban landscape in the formation of the plan
- The forms of implementation of the Urban Plan: The Urban Implementation Plans
- The forms of implementation of the Urban Plan: Urban equalization
- The project documents: The preliminary plan, the structural plan, the operational plan
- The project documents: The general report, the technical implementation standards, the urban building regulations
- The evaluation for the PUC: The Strategic Environmental Assessment (SEA)
- The forms of implementation of the Urban Plan: Urban equalization
- The project documents: The preliminary plan, the structural plan, the operational plan
- The project documents: The general report, the technical implementation standards, the urban building regulations
- The evaluation for the PUC: The Strategic Environmental Assessment (SEA)
- The forms of implementation of the Urban Plan: Urban equalization
- The project documents: The preliminary plan, the structural plan, the operational plan
- The project documents: The general report, the technical implementation standards, the urban building regulations
- The evaluation for the PUC: The Strategic Environmental Assessment (SEA)

Thematic Seminars

- The contemporary city: case studies: New Urbanism in the USA
- The contemporary city: urban regeneration in Europe from the 80s to today
- The P.U.C. in Campania, case studies: The PUC of the Municipality of Moiano (BN);
– The P.U.C. in Campania, case studies: The PUC of the Municipality Quarto (NA);

The exercise - Exercises on the sizing of Urban Implementation Plans

READINGS/BIBLIOGRAPHY

The teaching material made available to students consists of:
- Handout edited by the course owner who in a discursive way on the contents of the individual lessons and seminars (Teams channel of the Course);
- Slides of the individual lessons/seminars held (Teams channel of the Course);
- Bibliographical references with the basic texts of deepening (reported in the handout and in the lessons)

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is divided into:
lectures (60%), aimed at illustrating to students the theories and methods of urban planning technique, ·
thematic seminars (20%), held by the teacher and / or experts of the discipline to deepen the concrete application of theories and methods through the illustration of case studies
exercises (20%), with which students will be required to test the application of the techniques learned during the course

EXAMINATION/EVALUATION CRITERIA

a) Exam type

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

In case of a written exam, questions refer to

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

b) Evaluation pattern

The evaluation of learning will consist of an individual interview on the topics addressed in the lessons / seminars contained in the handout edited by the teacher, and on the performance of numerical exercise concerning the sizing of an Urban Implementation Plan.

COURSE DESCRIPTION
CONSTRUCTION SCIENCE

SSD: SCIENZA DELLE COSTRUZIONI (ICAR/08)

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

COURSE DESCRIPTION

TEACHER: MAROTTI DE SCIARRA FRANCESCO
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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: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 8

REQUIRED PRELIMINARY COURSES

FUNDAMENTALS OF SOLID AND STRUCTURAL MECHANICS.

PREREQUISITES

The disciplinary prerequisites necessary for understanding the theoretical and methodological knowledge are: · Statics and kinematics of rigid bodies; · Geometry of the areas; · Elements of mechanics of elastic solids.

LEARNING GOALS

The course aims to provide students with the fundamental principles which, when correctly acquired and applied, allow to analyze the static behavior of structures.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

· Learning of the essential knowledge for design and verification of structures. · Learning of the mechanics of materials and structures necessary for the understanding and analysis of

complex structural behaviors.
Knowledge and understanding The discipline has its objective in the knowledge of the mechanics of solids and structures and the understanding of the structural behavior of most common structures.

Applying knowledge and understanding
Applying knowledge and understanding The student develops the ability to transfer the theoretical and methodological knowledge related to the structural aspects into the architectural project and design drawings.

COURSE CONTENT/SYLLABUS

The contents of the course are as follows: · Deformation analysis 0.66 CFU · Stress analysis 0.66 CFU · Elastic relations 0.66 CFU · Elastic balance 0.66 CFU · Resistance criteria of materials · 0.66 CFU · Geometry of the masses 0.5 CFU · De Saint Venant Problem (Normal Stress, Straight Bending, Biaxial Bending, Normal and biaxial Bending, Shear, Torsion) 4 CFU

READINGS/BIBLIOGRAPHY

F. Marotti de Sciarra, Equilibrio elastico delle strutture, Liguori Editore, Napoli, 2010 F. Marotti de Sciarra - Teoria della Trave. Liguori editore, Napoli, 2009

TEACHING METHODS OF THE COURSE (OR MODULE)

The course is based into lectures.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

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

In case of a written exam, questions refer to

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

b) Evaluation pattern

COURSE DESCRIPTION
ENVIRONMENTAL TECHNICAL PHYSICS

SSD: FISICA TECNICA AMBIENTALE (ING-IND/11)

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

COURSE DESCRIPTION

TEACHER: BELLIA LAURA
PHONE: 081-2538778 - 081-7682301
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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: III
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER II
CFU: 8

REQUIRED PRELIMINARY COURSES

-

PREREQUISITES

-

LEARNING GOALS

Students will be able to:

- *Carrying out calculations and assessments dealing with energetic interactions between systems.*
- *Carrying out quantitative assessments through the main parameters involved in the environmental control analysis.*
- *Understanding the physical laws which describe heat exchange mechanisms, specifically dealing with solar thermal radiation, necessary for passive systems and renewable energy sources analyses.*

- *Assessing the building envelope's thermal and physical characteristics for the calculation of heat exchange rates between indoor and outdoor and for the hygrothermal analysis of building envelopes.*

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Students must demonstrate knowledge and understanding of the energetic interactions among the indoor environment, the building envelope and the outdoor environment, also considering specific contextual conditions.
Students must show familiarity with the main physical parameters describing the environmental comfort conditions.

Applying knowledge and understanding

Students will demonstrate to be able to verify and size simple elements of the building envelope for limiting heating losses and for solar radiation control;
furthermore, they must show their ability to evaluate the correctness of possible design proposals, considering their impact on the building's energetic behaviour.
Finally, they must show awareness in applying calculation models.

COURSE CONTENT/SYLLABUS

A. Units and Physics hints (0.3 ECTS): Review of the main physical quantities (displacement, speed, acceleration, force, energy, power, pressure, density, temperature, mass and specific volume). Unit of measure. Measurement uncertainty. Systematic and accidental errors. Direct and indirect measurements. Fundamental quantities. Measurement Systems. The International System. Multiple and submultiples. Measurement conversions. Numerical exercises. (Ref. App. A Lecture notes)

B. Basic concepts and definitions (0.3 ECTS): System and environment. Mass control and volume control systems. Thermodynamic equilibrium. Properties, thermodynamic state. Internal and external properties. Total, specific, extensive and intensive quantities. Thermodynamic state, transformations. State postulate. Pure substance, phase, compressible simple system. Equations of state. The ideal gas. Numerical problems. (Ref. Chap. 1, Lecture notes)

C. Mass and energy analysis for mass control systems (1 ECTS): Energy, work and heat. Balance equation. Mass balance. Piston cylinder system. Volume variation work. Energy balance. Internal energy. Specific heat. Thermal capacity. Numerical problems (Ref. Chap. 2 Lecture notes)

D. Calculation of thermodynamic properties (0.4 ECTS): Incompressible liquid. Solid. Ideal gas. p,T chart. Saturated vapour. Subcooled liquid. Superheated steam. Determination of the phase. Linear interpolation. Numerical problems. (Ref. App. A Lecture notes)

E. Mass and energy analysis for volume control systems (1.5 ECTS): Local equilibrium hypothesis. One-dimensional flow. Steady-state conditions. Control volume. Mass balance. Mass flow rate. Volumetric flow rate. Energy balance. Pulse work. Enthalpy. Thermal and mechanical energy transfer rates. Numerical problems. (Ref. Chap. 3 Lecture notes)

F. **Moist Air** (1.5 ECTS): Definitions. Thermometric properties: dry bulb, wet bulb, adiabatic-saturation, and dew temperatures. Specific enthalpy. Specific volume. Specific humidity. Relative humidity. Humidity ratio. Psychometric chart. Transformations of moist air: simple heating, simple cooling, cooling with dehumidification. Adiabatic humidification. Adiabatic mixing. Numerical problems. (Ref. Chap. 4a and 4b Moist air - Lecture notes)

G. **Introduction to heat transfer and conduction** (0.5 ECTS): Heat exchange mechanisms. Conduction, convection and radiation. Thermal flow. Fourier's law. Undefined flat sheet: temperature trend, thermal flow and power, conductance and thermal resistance. Series and parallel mechanisms. Numerical problems. (Ref. Chap. 5, App. B, Lecture notes)

H. **Heat transfer by combined mechanisms** (0.5 ECTS): examples of combined mechanisms. Calculation of the heat transfer rate by combined mechanisms. Convective, radiative and overall heat transfer coefficients. Air gaps. Thermal transmittance. Numerical problems. (Ref. Chap. 6, App. C, Lecture notes)

I. **Hygrothermal analysis of the building envelope** (1 ECTS): surface and interstitial condensation. Simplified procedure for the hygrothermal analysis of building envelopes. Corrective actions for a wall affected by condensation phenomena. Thermo-hygrometric analysis of the floors. Notes on the ISO 13788 Standard. Numerical problems. (Ref. Chap 7 Lecture notes

J. **Thermal radiation** (1 ECTS): Wave, speed, frequency, period and wavelength. Quantum of energy. Electromagnetic fields and frequencies. Total and monochromatic radiative quantities: emissive power, irradiation and radiosity. Monochromatic and total absorption, reflection and transmission coefficients. Black body. Laws of radiation for the black body: Planck, Stefan-Boltzmann, Wien. Total and monochromatic emissivity. Gray body. The angle factor. Energy balance in the evaluation of the radiative heat exchange. Greenhouse effect. Numerical problems. (Ref. Chap. 8 Lecture notes)

READINGS/BIBLIOGRAPHY

Teaching material, as lecture notes, booklets, tables and diagrams will be provided by the teacher. To deepen the themes about moist air, heat exchange through the building envelope and hygrothermal analysis, the book "L. Bellia, P. Mazzei, F. Minichiello, D. Palma: ARIA UMIDA –Climatizzazione ed involucro edilizio. Liguori Editore", is suggested.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course consists of theorical lectures and numerical exercises sessions. Teaching material will be available online and spreadsheets will be used.

Teachers will conduct lectures according to the following planning:

a) 50% frontal teaching dealing with theorical topics (4 ECTS)

b) 50% exercise sessions during which the learned theorical concepts will be applied (4 ECTS).

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 exam consists of an interview during which the student is required to apply his/her expected competence by solving numerical exercises and to demonstrate his/her acquired knowledge by answering questions and discussing on the program arguments.

COURSE DESCRIPTION
ENVIRONMENTAL TECHNICAL PHYSICS

SSD: FISICA TECNICA AMBIENTALE (ING-IND/11)

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

COURSE DESCRIPTION

TEACHER: PALELLA BORIS IGOR
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GENERAL INFORMATION ABOUT THE COURSE

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

REQUIRED PRELIMINARY COURSES

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PREREQUISITES

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LEARNING GOALS

Students will be able to:

- *Carrying out calculations and assessments dealing with energetic interactions between systems.*
- *Carrying out quantitative assessments through the main parameters involved in the environmental control analysis.*
- *Understanding the physical laws which describe heat exchange mechanisms, specifically dealing with solar thermal radiation, necessary for passive systems and renewable energy sources analyses.*
- *Assessing the building envelope's thermal and physical characteristics for the calculation of heat exchange rates between indoor and outdoor and for the hygrothermal analysis of building envelopes.*

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

Students must demonstrate knowledge and understanding of the energetic interactions among the indoor environment, the building envelope and the outdoor environment, also considering specific contextual conditions.

Students must show familiarity with the main physical parameters describing the environmental comfort conditions.

Applying knowledge and understanding

Students will demonstrate to be able to verify and size simple elements of the building envelope for limiting heating losses and for solar radiation control; furthermore, they must show their ability to evaluate the correctness of possible design proposals, considering their impact on the building's energetic behaviour.

Finally, they must show awareness in applying calculation models.

COURSE CONTENT/SYLLABUS

A. Units and Physics hints (0.3 ECTS): Review of the main physical quantities (displacement, speed, acceleration, force, energy, power, pressure, density, temperature, mass and specific volume). Unit of measure. Measurement uncertainty. Systematic and accidental errors. Direct and indirect measurements. Fundamental quantities. Measurement Systems. The International System. Multiple and submultiples. Measurement conversions. Numerical exercises. (Ref. App. A Lecture notes)

B. Basic concepts and definitions (0.3 ECTS): System and environment. Mass control and volume control systems. Thermodynamic equilibrium. Properties, thermodynamic state. Internal and external properties. Total, specific, extensive and intensive quantities. Thermodynamic state, transformations. State postulate. Pure substance, phase, compressible simple system. Equations of state. The ideal gas. Numerical problems. (Ref. Chap. 1, Lecture notes)

C. Mass and energy analysis for mass control systems (1 ECTS): Energy, work and heat. Balance equation. Mass balance. Piston cylinder system. Volume variation work. Energy balance. Internal energy. Specific heat. Thermal capacity. Numerical problems (Ref. Chap. 2 Lecture notes)

D. Calculation of thermodynamic properties (0.4 ECTS): Incompressible liquid. Solid. Ideal gas. p,T chart. Saturated vapour. Subcooled liquid. Superheated steam. Determination of the phase. Linear interpolation. Numerical problems. (Ref. App. A Lecture notes)

E. Mass and energy analysis for volume control systems (1.5 ECTS): Local equilibrium hypothesis. One-dimensional flow. Steady-state conditions. Control volume. Mass balance. Mass flow rate. Volumetric flow rate. Energy balance. Pulse work. Enthalpy. Thermal and mechanical energy transfer rates. Numerical problems. (Ref. Chap. 3 Lecture notes)

F. Moist Air (1.5 ECTS): Definitions. Thermometric properties: dry bulb, wet bulb, adiabatic-saturation, and dew temperatures. Specific enthalpy. Specific volume. Specific humidity. Relative humidity. Humidity ratio. Psychometric chart. Transformations of moist air: simple heating, simple cooling, cooling with dehumidification. Adiabatic humidification. Adiabatic mixing. Numerical

problems. (Ref. Chap. 4a and 4b Moist air - Lecture notes)

G. Introduction to heat transfer and conduction (0.5 ECTS): Heat exchange mechanisms. Conduction, convection and radiation. Thermal flow. Fourier's law. Undefined flat sheet: temperature trend, thermal flow and power, conductance and thermal resistance. Series and parallel mechanisms. Numerical problems. (Ref. Chap. 5, App. B, Lecture notes)

H. Heat transfer by combined mechanisms (0.5 ECTS): examples of combined mechanisms. Calculation of the heat transfer rate by combined mechanisms. Convective, radiative and overall heat transfer coefficients. Air gaps. Thermal transmittance. Numerical problems. (Ref. Chap. 6, App. C, Lecture notes)

I. Hygrothermal analysis of the building envelope (1 ECTS): surface and interstitial condensation. Simplified procedure for the hygrothermal analysis of building envelopes. Corrective actions for a wall affected by condensation phenomena. Thermo-hygrometric analysis of the floors. Notes on the ISO 13788 Standard. Numerical problems. (Ref. Chap 7 Lecture notes

J. Thermal radiation (1 ECTS): Wave, speed, frequency, period and wavelength. Quantum of energy. Electromagnetic fields and frequencies. Total and monochromatic radiative quantities: emissive power, irradiation and radiosity. Monochromatic and total absorption, reflection and transmission coefficients. Black body. Laws of radiation for the black body: Planck, Stefan-Boltzmann, Wien. Total and monochromatic emissivity. Gray body. The angle factor. Energy balance in the evaluation of the radiative heat exchange. Greenhouse effect. Numerical problems. (Ref. Chap. 8 Lecture notes)

READINGS/BIBLIOGRAPHY

Teaching material, as lecture notes, booklets, tables and diagrams will be provided by the teacher. To deepen the themes about moist air, heat exchange through the building envelope and hygrothermal analysis, the book "L. Bellia, P. Mazzei, F. Minichiello, D. Palma: ARIA UMIDA –Climatizzazione ed involucro edilizio. Liguori Editore", is suggested.

TEACHING METHODS OF THE COURSE (OR MODULE)

The course consists of theorical lectures and numerical exercises sessions. Teaching material will be available online and spreadsheets will be used.

Teachers will conduct lectures according to the following planning:

a) 50% frontal teaching dealing with theorical topics (4 ECTS)

b) 50% exercise sessions during which the learned theorical concepts will be applied (4 ECTS).

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☑ Oral
- ☐ Project discussion
- ☐ Other

In case of a written exam, questions refer to

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

b) Evaluation pattern

The exam consists of an interview during which the student is required to apply his/her expected competence by solving numerical exercises and to demonstrate his/her acquired knowledge by answering questions and discussing on the program arguments.