UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Agrarie, Alimentari e Forestali
ACADEMIC YEAR	2023/2024
MASTER'S DEGREE (MSC)	LANDSCAPE ARCHITECTURE
INTEGRATED COURSE	LANDSCAPE ARCHITECTURE STUDIO I - INTEGRATED COURSE
CODE	20974
MODULES	Yes
NUMBER OF MODULES	2
SCIENTIFIC SECTOR(S)	AGR/03, ICAR/14
HEAD PROFESSOR(S)	TUZZOLINO GIOVANNI FRANCESCO — Professore Ordinario — Univ. di PALERMO
OTHER PROFESSOR(S)	MOTISI ANTONIO — Professore Ordinario — Univ. di PALERMO TUZZOLINO GIOVANNI FRANCESCO — Professore Ordinario — Univ. di PALERMO
CREDITS	12
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	1
TERM (SEMESTER)	2° semester
ATTENDANCE	Not mandatory
EVALUATION	Out of 30
TEACHER OFFICE HOURS	**MOTISI ANTONIO** Monday 8:00 14:00 Studio Prof. Motisi presso il Dipartimento SAAF Wednesday 11:00 13:00 Sede CdL Viticoltura ed Enologia Thursday 09:00 12:00 Sede CdL Viticoltura ed Enologia **TUZZOLINO GIOVANNI FRANCESCO** Wednesday 10:00 14:00 SAAF Dipartimento di Scienze Agrarie, Alimentari e Forestali, Viale delle Scienze, Ed. 5, Ingresso A

DOCENTE: Prof. GIOVANNI FRANCESCO TUZZOLINO

PREREQUISITES	Knowledge of the notions of history and culture of the landscape, knowledge of the representation of the environment and physical elements, knowledge of botany and taxonomy and principles of agroecology.
LEARNING OUTCOMES	Knowledge and understanding of the problems concerning: - contemporary architectural research; - the design of a park or garden in the urban context; - the theoretical and training aspects of the architectural project. - the rules and tools for defining the architectural project; - the methods and tools of architectural composition; - the language and space of architecture connected to urban landscape issues. Knowledge and understanding skills applied to landscape features; Ability to apply the rules that govern the space composition processes; understanding of physical, social and cultural contexts, through the reading and critical interpretation of physical reality; Autonomy of judgment: Knowing how to understand the problems of living in the urban and rural environment between nature and artifice; knowing how to interpret the meaning and structure of places by identifying the tools and materials (architectural and plant) suitable for modification; knowing how to grasp the relational meanings between architecture and nature. Communication skills: Acquisition of an appropriate descriptive, expressive and communicative capacity of the project contents through the use of the design, tools and codes of the architectural representation, of the written text. Learning skills: Ability to synthesize (through critical comparison and disciplinary intersection) the complex of theoretical and design aspects with a view to changing the environment.
ASSESSMENT METHODS	Evaluation of exercises, rating of the design documents developed during the course, conclusive tests with drawings, models, oral exam. Method of learning evaluation The student will have to demonstrate the knowledges and competences acquired during the course through the presentation of one or more designs/ drawings made during the laboratories hours together with the related graphics. He has to answer orally to one or two questions regarding the project and the contents studied during the school year. The final text has to evaluate the student's competences concerning the development, the control, the representation of the project in architecture and the knowledge of theories related to it. The student's exam will be considered sufficient when through the project made and its exposition he shows a good knowledge of the matter and to understand the contents presented in their general lines. Below this level the exam won' t be considered sufficient. The evaluation will be made expressed in 30/30. Description of evaluation methods EvaluationMarkOutcome excellent30 - 30 laudeExcellent ability of the student to apply knowledge and skills, to solve the problems and the projects proposed, excellent knowledge of the topics, excellent properties of language, excellent analytical skills. very good26 - 29 Good ability to apply knowledge and skills to solve the problems and the projects proposed, good mastery of the subjects, full fluency of language. good 24 - 25Average ability to apply autonomously knowledge and skills to solve problems and project proposed, basic knowledge of the main topics, discrete properties of language. satisfactory 21 - 23Limited ability to apply autonomously knowledge and skills to solve problems proposed not full mastery of the main arguments, sufficient fluency of the language. sufficient18 - 20Minimum ability to apply autonomously knowledge and skills to solve the proposed design problems, poor command of the main topics and the technical language, minimal fluency of language. insufficientInsufficient capacity to apply autonomously knowledge and skills necessary to solve the proposed design problems, not acceptable knowledge of the contents and of the topics studied in the teaching.
TEACHING METHODS	Lectures, Laboratory exercises, Seminars, Training visits, Workshop

MODULE
TREES AND SHRUBS IN THE URBAN ENVIRONMENT

Prof. ANTONIO MOTISI

SUGGESTED BIBLIOGRAPHY	
Appunti delle lezioni e dispense fornite dal docente	
AMBIT	50366-Ecologia del Paesaggio e Ingegneria Naturalistica
INDIVIDUAL STUDY (Hrs)	102
COURSE ACTIVITY (Hrs)	48

EDUCATIONAL OBJECTIVES OF THE MODULE

The module aims to provide knowledge on the effect of environmental factors both on tree plants and on the changes induced by plants on the local environmental parameters of the urban climate. Starting from the climatological peculiarities that characterize the urban environment, the effects on the regular development of the physiological processes of trees will be examined, analyzing the consequences on the survival, growth and phenology of plants. Students will also acquire basic theoretical-practical notions relating to the function of urban green areas, planting techniques and criteria for choosing plant material for a rational design of green spaces. This knowledge will be used for the management and evaluation techniques for both isolated trees and public gardens. A further objective of the course is to give knowledge on the use of tree plants for the modification of local climatic factors and the analysis of the effects on the parameters that characterize human well-being and comfort.

SYLLABUS

Hrs	Frontal teaching
4	Climate and trees: urban environment specificity and effects on the physiology of the trees.
4	The urban environment: urban microclimate (heat island, greenhouse effect), urban soils, water factors, air pollution, human impact;
4	Urban green functions: ornamental, microclimatic, noise-reducing, depolluting
4	trees and pollutants. Effects on tree physiology. Trees in the recovery of polluted sites and in environmental reconversion. Trees as "buffer zones" and anti-pollution barriers (chemical, acoustic, etc.)
4	Tree structure and anatomy: morphology and organography. Correlative relationships root/ canopy. Biological cycle
4	Brief discussion of the major tree and shrub species for ornamental purpose
2	Ornamental nursery: qualitative aspects of ornamental production, quality standards
4	Primary growth and productivity of tree plants in an urban environment. Urban forestry and Urban horticulture.

Hrs	Workshops
18	CAD Simulations and micrometeorological models. Field trips, recovery and processing environmental data

MODULE
ARCHITECTURAL DESIGN STUDIO

Prof. GIOVANNI FRANCESCO TUZZOLINO

SUGGESTED BIBLIOGRAPHY

Gregotti V., Il territorio dell'architettura, Feltrinelli, Milano 1966.
E. N. Rogers, Esperienze dell'architettura, edizioni Skira, Milano 1997.
Ricci L., Diffusione insediativa territorio e paesaggio. Un progetto per il governo delle trasformazioni territoriali contemporanee, Carocci editore, Roma 2005.
Tuzzolino G.F., La composizione delle differenze. Il progetto di architettura come elaborazione del confine, Libria, Melfi 2019.

AMBIT	50365-Architettura del Paesaggio
INDIVIDUAL STUDY (Hrs)	78
COURSE ACTIVITY (Hrs)	72

EDUCATIONAL OBJECTIVES OF THE MODULE

The Architectural Design module within the Landscape Architecture Laboratory has the following objectives:
- Reading, understanding and interpretation of landscape architecture in its cultural, anthropic, physical aspects and in its natural and artificial components.
- Identification of the characteristics of the contemporary landscape in its structural and architecture-related aspects, with particular reference to the Mediterranean context.
- Highlighting of the critical issues related to the architectural project in the contemporary landscape, in the light of urban, rural and industrial transformations and the most current issues concerning the soil economy and climate change.
- Definition of the relationship between architecture and landscape, both in the wider dimension, linked to the structural modification of the places (landscape scale), and in the dimension of the artefacts capable of strategically interpreting the relationships between nature and artifice (architectural scale).

SYLLABUS

Hrs	Frontal teaching
1	Prolusion of the course, illustration of the program, of the objectives, of the examination modalities.
2	Landscape architecture: urban landscapes, agricultural landscapes, rural landscapes
2	In the middle places: physical and nonphysical boundaries
2	Architecture and landscape: spaces of nature and spaces of artifice
2	Place, traditions and memory in the Mediterranean: narration and identity of architecture
2	Reading and interpretation of the architecture of the soil: dialogue with the earth
2	Space and language in contemporary architecture
2	Architectural composition and landscape design: new critical issues

Hrs	Practice
52	Project at various dimensional scales of an architecture in an urban park. Graphic designs, model and written report.

Hrs	Others
5	Seminars, guided tours, surveys.