



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Agrarie, Alimentari e Forestali		
ACADEMIC YEAR	2018/2019		
MASTER'S DEGREE (MSC)	AGRICULTURAL PRODUCTIONS AND TECHNOLOGIES		
INTEGRATED COURSE	URBAN TREE FARMING AND RURAL ARCHITECTURE - INTEGRATED COURSE		
CODE	19669		
MODULES	Yes		
NUMBER OF MODULES	2		
SCIENTIFIC SECTOR(S)	AGR/03, ICAR/14		
HEAD PROFESSOR(S)	FARINA VITTORIO	Professore Ordinario	Univ. di PALERMO
OTHER PROFESSOR(S)	SCIASCIA ANDREA	Professore Ordinario	Univ. di PALERMO
	FARINA VITTORIO	Professore Ordinario	Univ. di PALERMO
CREDITS	12		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	2		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Not mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>FARINA VITTORIO</p> <p>Monday 11:00 13:00 Palazzo Principe di Napoli, Via Cappucini, Trapani.</p> <p>Tuesday 15:00 17:00 Dipartimento di Scienze Agrarie, Alimentari e Forestali. Viale delle Scienze, Edificio 4, piano terra, ingresso H, studio n° 35</p> <p>Thursday 09:00 13:00 Dipartimento di Scienze Agrarie, Alimentari e Forestali. Viale delle Scienze, Edificio 4, piano terra, ingresso H, studio n° 35</p> <p>SCIASCIA ANDREA</p> <p>Tuesday 09:00 12:00 DIPARTIMENTO D'ARCHITETTURA (FACOLTA DI ARCHITETTURA, edificio 14) primo piano, stanza n.110 - e in altri giorni sempre su prenotazione -.</p>		

PREREQUISITES	Knowledge required for entry to degree course program.
LEARNING OUTCOMES	<p>The student at the end of the course will have acquired a good knowledge of the principles, techniques and tools to manage trees in urban environments in respect to rural architecture.</p> <p>Knowledge - knowledge of planting techniques, management and maintenance of trees in urban areas according to their physiology - knowledge of the modalities of implementation, principles and rules that underlie rural architecture;</p> <p>Understanding - knowledge the functions of trees and shrubs in urban environments such as parks, gardens, street trees and parking; - knowledge and ability to understand the methods and cultural instruments relating to rural architecture, also intended as a synthesis between the figural, functional and technical-constructive aspects.</p> <p>Ability to apply knowledge and understanding - know how to intervene in the urban context with interventions of planning and maintenance using trees and shrubs; - apply urban green management taking into account the multifunctionality of the trees; - evaluate the intervention thresholds on the stability of trees in an urban environment; - ability to apply the acquired notions and methodological aspects to the development and execution of the assigned exercises.</p> <p>Autonomy of judgement - ability to use knowledge to formulate answers to practical or theoretical problems suggesting appropriate solutions to the best expression and evaluation of the management of trees in an urban environment with attention to the rural architecture; - make environmental compatibility ratings using aesthetic and economic aspects of rural landscape, also on the basis of limited or incomplete informations.</p> <p>Communication skills Be able to use a language that is technically correct, in addressing the technical choices related to management of trees in an urban environment, to their multifunctionality and on issues related to the landscape.</p> <p>Learn ability Ability to upgrade own knowledge with the consultation of the scientific papers.</p>
ASSESSMENT METHODS	<p>Learning will be evaluated through an interview, a written examination and the presentation of a project exercise at the end of the course.</p> <p>The examination will aim to evaluate the knowledge acquired and the processing skills. The final evaluation will take into account the entire educational career (knowledge of the fundamental principles and rules that are the basis of rural architecture; tools and cultural knowledge necessary for architectural; the ability to use the tools of architectural design and methodologies. The student will also have to answer questions related to the theoretical topics dealt with during the course and the subject of specific lectures and communications by the teacher. At the same time, he will have to demonstrate, during the illustration of his own project exercise, the ability to explain and justify the choices made.</p> <p>The evaluation is expressed in thirtieths. The threshold of sufficiency will be reached when the exhibition capacity to transmit his knowledge to the examiner. Ratings will vary in a range from 18 to 30: - excellent (30 30 and laud): excellent knowledge of the topics, excellent property 'of language; - very good (26-29) Good knowledge of the topics and adequate language; - good (24-25) basic knowledge of the main topics, good language skills, with limited ability to apply autonomously the knowledge to the solution of the proposed problems; - 21-23 (satisfactory) little knowledge of the subjects, satisfactory property 'language, little ability' to apply independently the knowledge acquired; - sufficient (18-20) minimum basic knowledge of the subjects and the technical language, very little or no ability to apply the acquired knowledge autonomously; - does not have an acceptable knowledge of the contents of the subjects dealt with in the teaching.</p> <p>The final vote is the average of the two teaching modules</p>
TEACHING METHODS	Teaching will be divided into lectures, exercises and technical visits.

**MODULE
RURAL ARCHITECTURAL DESIGN**

Prof. ANDREA SCIASCIA

SUGGESTED BIBLIOGRAPHY

E. Caracciolo, *Importanza dell'edilizia rurale nella attuale contingenza storica*, Editrice Le opere, IRES Palermo atti del convegno pubblicati anche nella Rivista «Urbanistica» n. 1 (luglio - agosto 1949) dell'Istituto Nazionale di Urbanistica.
L. Epifanio, *La nuova architettura rurale in Sicilia*, in Ministero dell'Agricoltura e delle Foreste, „Il latifondo siciliano“, Palermo 1942
G. Pagano, G. Daniel, *Architettura rurale italiana*, Quaderni della Triennale, Ulrico Hoepli Editore, Milano 1936
E. N. Rogers, *Esperienza dell'architettura*, Giulio Einaudi, Torino 1958

I nuovi paesaggi, «Lotus Navigator», 2, 2001
Fare ambiente, «Lotus Navigator», 5, 2002
Lotus in the fields, «Lotus international», 140, 2012

AMBIT	21005-Attività formative affini o integrative
INDIVIDUAL STUDY (Hrs)	90
COURSE ACTIVITY (Hrs)	60

EDUCATIONAL OBJECTIVES OF THE MODULE

The course aims to provide the students with the knowledge of rural architecture in relation to cultural, economic and environmental aspects that have contributed to its construction. Materials and architectural principles developed in different contexts will be compared with a specific attention to the use of the soil. Studying paradigmatic cases of the past and of the present, the connotative features of rural architecture will be focused also considering the design of new elements or their reuse.

SYLLABUS

Hrs	Frontal teaching
3	Prolusion of the course; program, objectives, exams description
3	Architecture and Soil
3	Architecture and pre-existing environment
3	Rural town and Modern Movement
3	Rural architecture in Sicily. Edoardo Caracciolo's experience.
3	Rustic architecture. The lesson of Luigi Epifanio
3	Rural villages and New Town in the fascist period
3	Giuseppe Samonà: The extending town
3	Contemporary rural architecture
3	Materials and tools of rural architecture
Hrs	Practice
20	Exercise - architectural design activity
Hrs	Others
10	Surveys and guided tours

**MODULE
URBAN TREE FARMING**

Prof. VITTORIO FARINA

SUGGESTED BIBLIOGRAPHY

A. Pirani, a cura di. Il verde in città – la progettazione del verde negli spazi urbani. Edagricole.
M. Ferrari e D. Medici. Alberi e arbusti – Manuale di riconoscimento delle principali specie ornamentali. Edagricole.
P. Piccarolo, a cura di. Spazi verdi pubblici e privati – Progetto, manutenzione, gestione. Hoepli.
Vezzosi C. Vivaistica ornamentale. Edagricole
F. Agostoni e C.M. Marinoni. Manuale di progettazione degli spazi verdi. Zanichelli
AAVV Manuale per tecnici del verde urbano. Città' di Torino Monti.
A.L. e Boriani M.L. La progettazione paesaggistica delle strade. Dario Flaccovio editore
Hvass N. e Zanzi D. Guida europea alla corretta messa a dimora degli alberi
Approfondimenti da riviste del settore e atti di convegni forniti dal docente in formato elettronico (pdf).

AMBIT	50544-Discipline della produzione
INDIVIDUAL STUDY (Hrs)	90
COURSE ACTIVITY (Hrs)	60

EDUCATIONAL OBJECTIVES OF THE MODULE

Provide the fundamental knowledges about the function of trees in urban areas such as parks, gardens, streets and parking. Through technical surveys to historic gardens, green spaces and streets of our cities will be sent to the criteria for the selection and management of the best choices among the different tree species.

SYLLABUS

Hrs	Frontal teaching
2	Objectives of the discipline and its subdivision. Outline of organography and morphology of woody plants.
2	Trees in urban environments and the choice in the nursery: ornamental tree nursery production; classification of ornamental tree species; the tree-nursery products: characteristics and quality aspects.
2	Trees in the urban environment and its plantation. Soil preparation; planting; crop management and irrigation; mineral nutrition. Woody plants in container. Indoor trees.
4	Integration between the tree and the urban environment: distances and soil management; interference of roots and canopy with the environment.
2	Interaction of trees with pollutants and environmental sanitation.
2	Monumental trees: definition, historical value, recovery and protection. Stability control of trees: VTA (Visual Tree Assessment).
2	Aesthetic and landscape criteria when choosing trees and shrubs. Design criteria: size, foliage, blooms, canopy; landscape aspects: hedges and borders, ground cover plants.
2	Green urban forests (urban parks, green spaces, tree-lined avenues and squares, green areas on motorways), green (school, sports, residential).
2	Historical evolution of the green in streets and its landscape; influence of roadway in the landscape; the landscape and the rules of the road; typological landscape trees plant elements; maintenance of trees.
2	Trees and park areas: functions of the tree; relationship between traffic, parking and trees.
4	Pruning of trees: types and methodologies; evergreens and deciduous trees; Topiary pruning: Tree climbing in the monumental trees and street trees. Pruning of deciduous trees and conifers.
2	The most important species of trees and shrubs of ornamental interest. Classification on the basis of criteria: agronomic and pedoclimatic; the design criteria; criteria related to the cultural environment. The species present in a city park: the Cassarà.
2	Functional role of hedgerows and its maintenance techniques. The most important species for the realization of hedges. Classification based on selection criteria of species, design and maintenance of windbreaks.
Hrs	Practice
3	VTA (Visual Tree Assessment).
3	The University campus: ornamental and functional Arboriculture, critical assessment of the current situation and proposals of usable spaces
Hrs	Workshops
2	The street trees and urban parks in the city of Palermo.
2	Monumental trees, recovery of biodiversity and new usability of urban green: the Park of the Real Favorita of Palermo
2	Green in the parking of Palermo: traditional designs and new perspectives
6	Multifunctionality of urban trees in Palermo villas and gardens: Villa Trabia, Villa Tasca D'almerita, La Favara.

3	Peri-urban parks and gardens: the functional role of Arboriculture for the maintenance of these areas. The terraces of Ciaculli. Functional aspects of Arboriculture.
Hrs	Others
3	La fossa della Garofala: historical and environmental potential discovery trees in maintaining a green. Interaction between plant and environment. Historical value of orchards (citrus spp) and their maintenance
3	Technical visit to the CREA: breeding, selection and management of species of trees and shrubs for ornamental use. Native and exotic species. Varietal and local germplasm collections. Hardening.
3	The tree in the historical Garden: monumental value, usability, recoverability. Il giardino della kolymbetra