



# UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Agrarie, Alimentari e Forestali		
ACADEMIC YEAR	2021/2022		
MASTER'S DEGREE (MSC)	AGRICULTURAL PRODUCTIONS AND TECHNOLOGIES		
SUBJECT	HORTI-FLOWER FARMING AND URBAN HORTICULTURE		
TYPE OF EDUCATIONAL ACTIVITY	B		
AMBIT	50544-Discipline della produzione		
CODE	21863		
SCIENTIFIC SECTOR(S)	AGR/04		
HEAD PROFESSOR(S)	SABATINO LEO	Professore Associato	Univ. di PALERMO
OTHER PROFESSOR(S)			
CREDITS	6		
INDIVIDUAL STUDY (Hrs)	90		
COURSE ACTIVITY (Hrs)	60		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	1		
TERM (SEMESTER)	1° semester		
ATTENDANCE	Not mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<b>SABATINO LEO</b> Monday 9:00 11:00 Studio del docente sito presso il Dipartimento SAAF, Ed. 5. Wednesday 9:00 11:00 Studio del docente sito presso il Dipartimento SAAF, Ed. 5.		

DOCENTE: Prof. LEO SABATINO

<b>PREREQUISITES</b>	Basic knowledge of: agroecology and taxonomy
<b>LEARNING OUTCOMES</b>	<p>Knowledge of the most important concepts and practices concerning the propagation and production of ornamental species and vegetables in sub-urban and urban area.</p> <p>Capacity to apply knowledge and comprehension to manage and develop propagation and production schedules for annual and perennial flowers, flower bulbs and corms, ornamental shrubs and vegetables, as well as, the cultivation of ornamentals and vegetables in sub-urban and urban area.</p> <p>Autonomy of judgment and decision with respect to various environmental conditions and different contexts in the application of modern cultivation techniques in urban and sub-urban area.</p> <p>Acquire communicative skills in order to advise growers involved in the floriculture and horticulture industry to design and develop propagation and production schedules related to the market demand.</p> <p>Comprehension capacity to modify and improve cultivation techniques to address new market trends both through acquired skills and continuous scientific updating and professional meeting attending</p>
<b>ASSESSMENT METHODS</b>	<p>The oral examination aims at testing the theoretical and practical competencies of the students. An exam is deemed to be passed successfully if the final grade is equal to or higher than 18/30. The threshold for sufficiency will be gained when the student shows knowledge and understanding of topics, at least in their guidelines, and has minimum levels of applied skills concerning the solution of specific case studies; he should be in possession of talking abilities and of a correct use of language for the specificity of the course. Below this threshold the exam will be assessed as insufficient. The more the student shows argumentative and talking capacities, besides knowledge going into details of the discipline, the more his assessment will be positive till the grade of excellence. During the oral examination and throughout specific questions will be tested: a) attained competencies; b) analytical capacity; c) explanatory capacity. As regard attained competencies, the oral examination will aim at testing that students have acquired a general background on floriculture production and developed the skills of assimilation and interpretation of the different topics with special emphasis on representative study cases. As regard analytical capacity the oral examination will aim at testing that students have acquired the capacity to correlate the lecture topics. During the evaluation particular emphasis will be given to student capacity to critically discuss the cultivation techniques actually applied in the floriculture industry. As regard to explanatory capacity students must demonstrate adequate and appropriate language skills related to the specific floriculture field.</p>
<b>EDUCATIONAL OBJECTIVES</b>	<p>Provide students specific skills for the propagation of floricultural species and vegetable crops and their cultivation systems applicable in urban and sub-urban environments with particular emphasis on soil and soilless cultivation systems. A special part will deal with planting and management methods of the most common garden species for urban green areas with low maintenance impact, and the management of specific urban gardens. The study cases will focus on the families of Solanaceae (tomato, eggplant and pepper); Asteraceae (lettuce) and Cucurbitaceae (melon, watermelon and 'zucchini' squash).</p>
<b>TEACHING METHODS</b>	Oral lectures, practical training
<b>SUGGESTED BIBLIOGRAPHY</b>	<p>Iapichino G. 2012. La propagazione delle piante. Edagricole-New Business Media, ISBN 8850653549</p> <p>Romano Tesi. 2010. Orticoltura Mediterranea Sostenibile. Pàtron Editore, ISBN 8855530623</p> <p>Pardossi A., Prodsocimi Gianquinto G., Santamaria P., Incrocci L. 2018. Orticoltura Principi e Pratica. Edagricole-New Business Media, ISBN 978-88-506-5514-4</p>

## SYLLABUS

Hrs	Frontal teaching
2	Course objective and examination modality. The vegetable and floriculture nursery sector: principal areas of production, evolution, main sectors.
8	The most important propagation methods in the floriculture industry. Conventional and advanced methods for sexual and vegetative propagation of ornamental. Representative examples including methods from plant tissue culture.
12	The most important propagation methods in the vegetable nursery industry with particular emphasis on the family of Solanaceae, Asteraceae and Cucurbitaceae
4	Environmental factors affecting growth and development of ornamental crops: photoperiod, light intensity, temperature and humidity with special emphasis of the reproductive plant phase.
2	Plant growth regulators applied in the nursery sector.
14	Botanical classification, morpho-physiological traits, cultivation techniques and cycles of the most common vegetables cultivated in urban gardens.

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Hrs	Frontal teaching
2	Green roofs and rooftop gardens.
Hrs	Practice
2	Practical training on various methods of ornamental plant propagation by cutting.
2	Practical training on methods of grafting for Solanaceae and Cucurbitaceae.
Hrs	Others
12	Technical visits at professional nurseries and urban gardens.