



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Agrarie, Alimentari e Forestali		
ACADEMIC YEAR	2022/2023		
MASTER'S DEGREE (MSC)	AGRICULTURAL PRODUCTIONS AND TECHNOLOGIES		
SUBJECT	FLORICULTURE		
TYPE OF EDUCATIONAL ACTIVITY	B		
AMBIT	50544-Discipline della produzione		
CODE	03437		
SCIENTIFIC SECTOR(S)	AGR/04		
HEAD PROFESSOR(S)	MONCADA ALESSANDRA	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	MONCADA ALESSANDRA Tuesday 10:00 13:00 Dip. SAAF - Stanza docente n. 127 Ed. 5 - B. P1 - 31 (appuntamento via mail) Wednesday 10:00 13:00 Dip. SAAF - Stanza docente n. 127 Ed. 5 - B. P1 - 31 (appuntamento via mail) Thursday 10:00 13:00 Dip. SAAF - Stanza docente n. 127 Ed. 5 - B. P1 - 31 (appuntamento via mail)		

DOCENTE: Prof.ssa ALESSANDRA MONCADA

PREREQUISITES	Basic knowledge of general and inorganic chemistry, general botany and taxonomy, and agronomy.
LEARNING OUTCOMES	Knowledge of the most important concepts and practices concerning the propagation and production of cut flowers, flowering pots, and plants for parks and gardens. Capacity to apply knowledge and comprehension to manage and develop propagation and production schedules for annual and perennial flowers, flower bulbs and corms, and ornamental shrubs. Autonomy of judgment and decision with respect to various environmental conditions and contexts in applying modern cultivation techniques in the floriculture propagation and production industry. Acquire communicative skills in order to advise growers involved in the floriculture industry to design and develop propagation and production schedules related to the market demand. Comprehension capacity to modify and improve cultivation techniques to address new market trends both through acquired skills and continuous scientific updating and professional meetings attending
ASSESSMENT METHODS	The oral examination aims to test the students' theoretical and practical competencies. 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 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 in floriculture production and developed the skills of assimilation and interpretation of the different topics with special emphasis on representative study cases. As regards 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
EDUCATIONAL OBJECTIVES	To provide students with specific competencies concerning propagation and production in the Floriculture Industry, particularly in the cut flower and flowering pot sectors.
TEACHING METHODS	Oral lectures, practical training, technical excursion at ornamental plant nurseries
SUGGESTED BIBLIOGRAPHY	Tesi R. 2002. Colture protette ed ortofloviaismo- Edagricole - ISBN-88-506-0021-6 Dole J.M., Wilkins H.F. 2005. Floriculture Principles and Species. Prentice Hall - ISBN 0-13-046250-0 Iapichino G. 2012. La propagazione delle piante-Edagricole- ISBN-978-88-506-5354-6 Incrocci et al., 2022 - Colture fuori suolo. Idroponica e coltivazione su substrato. Edagricole. ISBN: 9788850655724

SYLLABUS

Hrs	Frontal teaching
2	Course objective and examination modality. The floriculture industry: principal areas of production, evolution, main sectors.
4	The most important propagation methods in the floriculture industry. Conventional and advanced methods for sexual and vegetative propagation of ornamental plants for flowering potted plants and cut flowers. Representative examples including methods from plant tissue culture.
4	Environmental factors affecting the growth and development of ornamental crops: photoperiod, light intensity, temperature, and humidity with special emphasis on the reproductive plant phase.
4	Production schedules for annual and perennial flowers, flower bulbs and corms, and ornamental shrubs. Height control in floriculture. Plant growth regulators applied in the floriculture sectors
2	Plants for flowering pot. Study cases: propagation and production of gerani (pelargonium spp.; P. x hortorum, P. peltatum, P. imperiale)
2	Propagation and production techniques Euphorbia pulcherrima.
8	The use of Geophytes in floriculture. Study cases: propagation and production of bulbs, rhizomes, root tuber - tulip, freesia, ranunculus, alstroemeria, iris.

SYLLABUS

Hrs	Frontal teaching
6	Ornamental shrub production. Study cases: propagation and production of Azalea (rhododendrons), Bouganvillea, Hydrangea.
4	Propagation and cultivation of indoor (foliage) plants.
2	Plants for flowering pot. Study cases: propagation and production of Saintpaulia (Violetta africana), Kalanchoe.
4	Herbaceous annual and perennial flower plants for cut flower. Study cases: propagation and production of Anthirrinum, Lisianthus, and Lilium.
Hrs	Practice
12	Practical training on various methods of ornamental plant propagation by cutting
Hrs	Others
6	Technical excursion at regional ornamental plant nurseries