



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Agrarie, Alimentari e Forestali		
ACADEMIC YEAR	2020/2021		
MASTER'S DEGREE (MSC)	AGRICULTURAL PRODUCTIONS AND TECHNOLOGIES		
SUBJECT	FLOWER GROWING AND NURSERY		
TYPE OF EDUCATIONAL ACTIVITY	B		
AMBIT	50544-Discipline della produzione		
CODE	15401		
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	SABATINO LEO 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

PREREQUISITES	Basic knowledge of: general and inorganic chemistry, general botany and taxonomy, agronomy.
LEARNING OUTCOMES	<p>Knowledge of the most important concepts and practices concerning the propagation and production of plants for green spaces and particularly parks and gardens and flowering pots for terraces.</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, and ornamental shrubs.</p> <p>Autonomy of judgment and decision with respect to various environmental conditions and different contexts in the application of modern cultivation techniques in the floriculture propagation and production industry.</p> <p>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 of plants for green spaces.</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>
ASSESSMENT METHODS	<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 possess 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.</p> <p>During the oral examination and throughout specific questions will be tested: a) attained competencies; b) analytical capacity; c) explanatory capacity</p> <p>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.</p> <p>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.</p> <p>As regard to explanatory capacity students must demonstrate adequate and appropriate language skills related to the specific floriculture field.</p>
EDUCATIONAL OBJECTIVES	Provide students specific competencies concerning the propagation and production of flowering pots, herbaceous annuals and perennials/flower bulbs and ornamental shrubs for green spaces such as parks and gardens.
TEACHING METHODS	Oral lectures, practical training
SUGGESTED BIBLIOGRAPHY	Tesi R. 2002. Colture protette ed ortoflovaismo- Edagricole Iapichino G. 2012. La propagazione delle piante-Edagricole Dole J.M., Wilkins H.F. 2005. Floriculture Principles and Species. Prentice Hall

SYLLABUS

Hrs	Frontal teaching
2	Course objective and examination modality. The floriculture industry for green spaces: 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 gardens, flowering potted plants. Representative examples including methods from plant tissue culture.
4	Environmental factors affecting growth and development of ornamental crops: photoperiod, light intensity, temperature and humidity with special emphasis of the reproductive plant phase.
4	Production schedules for annual and perennial flowers, flower bulbs and corms, ornamental shrubs. Height control in floriculture. Plant growth regulators applied in the floriculture sectors.
4	Herbaceous annual and perennial plants for flowering pot and bedding plant production. Study cases: propagation and production of Cineraria and Primula.
4	Herbaceous annual and perennial flower plants for cut flower, flowering pot and bedding plant production. Study cases: propagation and production of Impatiens and Petunias.
4	Herbaceous perennial plants for flower pot and bedding plant production. Study case: propagation and production of begonias.
4	Propagation and production techniques for various types of geranium (Pelargonium).
4	Ornamental shrubs production. Study cases: propagation and production of Hibiscus and Oleander.

SYLLABUS

Hrs	Frontal teaching
6	The use Geophytes in floriculture. Study cases: propagation and production of bulbs, rhizomes, root tuber : cyclamen, calla (Zantedeschia).
4	Shrubs of the Mediterranean maquis used for green spaces and particularly parks, gardens and flowering pots.
Hrs	Practice
6	Practical training on various methods of ornamental plant propagation by cutting.
4	Practical training on the application of plant tissue culture in floriculture.
Hrs	Others
6	Technical excursion at regional ornamental plant farms