



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	
ACADEMIC YEAR	
ANNO ACCADEMICO EROGAZIONE	
SUBJECT	
CODE	
SCIENTIFIC SECTOR(S)	
HEAD PROFESSOR(S)	VETRANO FILIPPO Professore Associato Univ. di PALERMO
OTHER PROFESSOR(S)	
CREDITS	
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	
TERM (SEMESTER)	
ATTENDANCE	
EVALUATION	
TEACHER OFFICE HOURS	VETRANO FILIPPO Tuesday 9:00 11:00 Studio del docente stanza 129 ed. 5 P1 Wednesday 9:00 11:00 Palazzo Principe di Napoli, Via Cappuccini, Trapani - Previo appuntamento Thursday 12:00 14:00 Via Real Maetranza, Aula 8 -Polo di Caltanissetta

DOCENTE: Prof. FILIPPO VETRANO

PREREQUISITES	Basics of: general and systematic botany; organic chemistry; biochemistry
LEARNING OUTCOMES	<p>Knowledge and understanding: at the end of the course, students will have basic knowledge about systems and processes of production of vegetables and cut flowers.</p> <p>Capacity to apply knowledge and comprehension: the acquired knowledge will allow to manage and develop appropriate cultivation techniques for production of leafy greens, fruiting, bulbous and tuberous vegetables.</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 vegetable and floriculture sectors. Acquire communicative skills in order to advise growers involved in the vegetable and floriculture industry to design and develop 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>
ASSESSMENT METHODS	<p>The oral exam is finalised to verify the disciplinary skills and knowledge included in the syllabus; the assessment is expressed into thirty out of thirty. The minimum number of questions is three and aims to verify the gained knowledge, the elaboration abilities, as well as the possess of an adequate speaking ability. The threshold for sufficiency (18/30) 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 (30/30 cum laude). Compensatory tools and dispensatory measures will be guaranteed by the Disability and Neurodiversity Center - University of Palermo (Ce.N.Dis.) to students with disabilities and neurodiversity, based on specific needs and in implementation of current legislation.</p>
EDUCATIONAL OBJECTIVES	<p>Provide students specific knowledge concerning planting, growth and plant management of the main vegetable crops and cut flowers.</p> <p>The subject matter will allow to acquire knowledge on morphological, physiological and ecological characteristics of the main cultivated vegetable species. Furthermore, the course will allow to acquire knowledge on crop rotations, variety choice, planting, irrigation, fertilization, harvest and post-harvest in relation to the soil and climatic environment and to the market demands.</p>
TEACHING METHODS	Oral lectures; Practical training; excursions at Sicilian vegetable and floriculture farms.
SUGGESTED BIBLIOGRAPHY	<p>Pardossi A; Prosdocimi Gianquinto G., P. Santamaria P., Incrocci L., -2018 – ORTICOLTURA Principi e Pratica – Edagricole ISBN -978-88-506-5514-4.</p> <p>Valentina Scariot, Stefania De Pascale, Antonio Ferrante, Daniela Romano - (2022) Florovivaismo - Principi e tecniche - Edagricole, ISBN 978-88-506-5517-5</p> <p>Tesi R. – Orticoltura mediterranea sostenibile - Patron Editore. ISBN: 9788855530620</p> <p>Bianco VV. e Pimpini F – Orticoltura Patron Editore. ISBN: 8855520997</p> <p>Appunti delle lezioni e materiale didattico messo a disposizione dal docente</p>

SYLLABUS

Hrs	Frontal teaching
2	Examination modality, course objectives and course content
2	The vegetable and floriculture industries: principal areas of production, evolution, main sectors.
2	Cultural systems in the vegetable and floriculture industry: open field and protected cultivation
4	Protected cultivation systems (early and protected crop technology)
2	Production schedules for vegetables and cut flower crops
2	Vegetable and flower crop nursery production
2	Plant establishment: direct sowing and transplanting
2	Innovative agromical techniques in horticulture: soil solarization, biofumigation, vegetable grafting.
12	<p>Diffusion, economical importance, morphological and physiological characteristics, cultivars, soil and environmental requirements, cultivation techniques of the following vegetable species :</p> <p>tomato -2 hours</p> <p>artichoke - 2 hours</p> <p>melon -2 hours</p> <p>onion - 2 hours</p> <p>potato- 2 hours</p> <p>cole crops – 2 hours</p>

SYLLABUS

Hrs	Frontal teaching
10	Diffusion, economical importance, morphological and physiological characteristics, soil and environmental requirements, cultivation techniques of the following flower species: carnation – 2 hours rose – 2 hours chrysanthemum – 2 hours gerbera – 2 hours lilium – 2 hours
Hrs	Practice
20	Practical training at the experimental farm of the Dip. SAAF Technical excursion at Sicilian vegetables and cut flower farms