

Pianta e degli Alimenti

LAUREA MAGISTRALE IN MEDICINA DELLE PIANTE International Joint Master Degree in PLANT MEDICINE



General information		
Academic subject	Advanced v production	vegetable and floriculture crops (Module of Plant s)
Degree course	Master deg	ree in Plant Medicine (LM69)
Academic Year	2021-2022	(first year, second semester)
European Credit Transfer and Accumulation System 3		
(ECTS)		
Language	Italian (Eng	glish will be used when required for foreign students into
	didactic ma	iterial)
Academic calendar (starting and ending		March 1 st -June17 th 2022
date)		(Pause 2022 April 20 th – May 6 th , for midterm exam)
Attendance	Not mandat	bry

Professor/ Lecturer	
Name and Surname	Pietro Santamaria
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Telephone	080-5443098
Department and address	Agricultural and environmental science
Virtual headquarters	M. Teams
Tutoring (time and day)	Every day by email

Syllabus	
Learning Objectives	The course aims to provide in-depth knowledge about: propagation techniques and the cultivation of vegetable and floriculture, with particular regard to systems and techniques capable of optimizing the propagation and production according to the biology and physiology of species, of the agro-environmental characteristics, of the quality standards of the product in relation to the commercial destination.
Course prerequisites	"Agronomy" and "Vegetable and floriculture crops" requests for admission to the Master course.
Contents	 Vegetable agrobiodiversity and Apulian local varieties, artichoke, cauliflower, broccoli, raabs, lattuce and leafy vegetables, tomato (1.5 ECTs; 10 h lectures + 4 h Lab & field cl.). Product innovation: the Proteaceae, the light and its influence on the qualitative and quantitative aspects of production of ornamental species, the grown technique examples especially high (Orchids) and low (fronds) energy input (1 ECT; 6 h lectures + 3 h Lab & field cl.). Visits to production and/or experimental farms (0.5 ECT; 7 h).
Books and bibliography	 Pardossi A., Gianquinto Prosdocimi G., Santamaria P., Incrocci L., Orticoltura. Principi e pratica (a cura di). Edagricole - New Business Media, Milano, 2018.



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	 Hanan J.J., Greenhouses - Advanced Technology for Protecte Horticulture. CRC Press, Boca Raton, 1998. Larson R.A., Introduction to Floriculture. Accademic Press, N 	ew
	York, London, 1990	
Additional materials	Lecture notes provided by the teacher.	
	Technical reports and scientific articles.	

Work sched	ule		
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self- study hours
Hours			1
75	16	14	45
ECTS			
3	2	1	
Teaching str	ategy		
		During the health emergency imposed by the CC lectures will be held remotely with the use of M. Tean The topics of the course will be treated with the he presentations and with the support of videos. Stude pdf format of the frontal lesson with the addition of u study to the images. Each lesson (ppt and pdf) wil curiosities, links, insights, exercises to be carried out self-verification. Laboratory activities, technical visits in the field and in companies will be carried out.	by ID-19 pandemic, ns. elp of Power Point nts will receive the seful texts for their l be enriched with and questions for l leading
Expected lea	arning		
Knowledge a understandi	and ng on:	Knowledge of design and sustainable management of i production of crops and vegetable and floriculture pro the qualitative, quantitative and sanitary aspects of pro harvest and marketing.	integrated ducts to improve oduction, post-
Applying kno understandi	owledge and ng on:	Ability in innovative design and management of integration production (ICM) and vegetable and floriculture production qualitative, quantitative and sanitary aspects of vegetation floricultural yield, post-harvest and marketing.	ated crop cts to improve the able and
Soft skills		 Making informed judgments and choices Ability to analyze the different situations of market environment, to plan and to mana improve the quality and efficiency of vege floriculture production, also in terms of su eco-compatibility. The acquisition of judgment autonomy is vertication of the teaching. Communicating knowledge and understanding 	of a production and ge actions to table and istainability and verified by



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 Personal skills aimed at communication, multidisciplinary
group work and judgmental skills both at the technical and
the human and ethical levels.
 Capacities to continue learning
 Expected learning outcomes, as knowledge and ability, are
reported in the annex A of the Didactic Regulation of the
course Plant Medicine (expressed by European Descriptors).

Assessment and feedback	
Methods of assessment	Oral
Evaluation criteria	 Knowledge and understanding Knowing how to design and manage the integrated production of crops and horticultural products in a sustainable way in order to improve the qualitative, quantitative and sanitary aspects of production, shelf life and marketing. Applying knowledge and understanding Being able to apply the main process and product innovations in the integrated production of crops (ICM) and horticultural products to improve the qualitative, quantitative and sanitary aspects of horticultural productions, shelf life and marketing. Autonomy of judgment Being able to critically evaluate the different situations of a production and market context, to plan actions and manage interventions to improve the quality and efficiency of horticultural productions, also in terms of sustainability and eco-compatibility. Self-producing microgreens. Conduct the crop cycle of the horticultural species studied. Communicating knowledge and understanding Assessment of personal skills, aimed at communication, multidisciplinary teamwork and judgment skills, both on a technical and human and ethical level, even during the course of teaching and in relation to the interactivity developed. Communication skills Personal skills aimed at communication, multidisciplinary group work and judgmental skills both at the technical and the human and ethical levels. Capacities to continue learning The expected learning outcomes, in terms of knowledge and skills, are shown in Annex A of the Degree Program Didactic Regulations (expressed through the European Descriptors of the qualification)
Criteria for assessment and	For students enrolled in the year in which the teaching is done, there will
attribution of the final mark	be a midterm exam as oral test. The evaluation of the students' tests takes
	place on the basis of pre-established criteria which include:
	a) consistency with the topics of the program,
	b) the quality of the processing,



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Additional information	such as reported in the Annex A of the Didactic Regulation of the Master Course in Plant Medicine.
	d) the level of structure of the arguments. The evaluation of the intermediate / final exam is expressed in thirties and the exam is passed when the grade is greater than or equal to 18. The final mark will consider the theoretical and practical knowledge acquired the ability to apply the knowledge, autonomy of judgment, communication skills and on the ability to integrate the acquired knowledge in a project
	c) the ability to analyze,