

SCIENZE DEL SUOLO, DELLA

PIANTA E DEGLI ALIMENTI

# LAUREA MAGISTRALE IN MEDICINA DELLE PIANTE INTERNATIONAL JOINT MASTER DEGREE IN PLANT MEDICINE



General information			
Academic subject	Advanced vegetable crops (Module of Plant productions)		
Degree course	Master degree in Plant Medicine (LM69)		
Academic Year	2022-2023 (first year, first semester)		
European Credit Transfer and (ECTS)	Accumulation	on System	3
Language	Italian (English will be used when required for foreign students into didactic material)		
Academic calendar (starting and ending		September 26, 2022 - January 20, 2023	
date)			
Attendance	Not mandate	ory	

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 vegetables, with particular regard to systems and techniques capable of optimizing: propagation and production according to the biology and physiology of species, agroenvironmental characteristics, quality standards of the product in relation to the commercial destination.		
Course prerequisites	"Agronomy" and "Vegetable crops" requests for admission to the Master course.		
Contents	Vegetable agrobiodiversity and Apulian local varieties, artichoke, cauliflower, broccoli, raabs, lattuce and leafy vegetables, tomato for the fresh market, and early potato (2.5 ECTs; 16 h lectures + 7 h Lab & field cl.).		
	Visits to production and/or experimental farms (0.5 ECT; 7 h).		
Books and bibliography	<ul> <li>Pardossi A., Gianquinto Prosdocimi G., Santamaria P., Incrocci L.,</li> <li>Orticoltura. Principi e pratica. Edagricole - New Business Media,</li> <li>Milan, 2018.</li> </ul>		
Additional materials	<ul> <li>Lecture notes provided by the teacher.</li> <li>Technical reports and scientific articles.</li> </ul>		

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Work schedule	



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Total	Lectures		Hands on (Laboratory, working groups,	Out-of-class	
rotar	Lectures		seminars, field trips)	study hours/ Self- study hours	
Hours				coddy modifie	
75	16		14	45	
ECTS			_ ·		
3	2		1		
Teaching strat			-		
		lectures The top present pdf form study t curiosit self-ver Laborat	the health emergency imposed by the CCs will be held remotely with the use of M. Team pics of the course will be treated with the heations and with the support of videos. Stude mat of the frontal lesson with the addition of u to the images. Each lesson (ppt and pdf) will lies, links, insights, exercises to be carried out iffication.  Tory activities, technical visits in the field and in hies will be carried out.	ns. elp of Power Point nts will receive the seful texts for their I be enriched with and questions for	
Expected learn	ning	сотграт	iles will be carried out.		
outcomes Knowledge an	.d	Knowlo	dgo of docign and sustainable management of	intograted	
_			dge of design and sustainable management of integrated ion of crops and vegetable products to improve the qualitative,		
unacistanang	, 011.		ative and sanitary aspects of production, post-h	· · · · · · · · · · · · · · · · · · ·	
Applying know understanding	_	product	n innovative design and management of integration (ICM) and vegetable products to improve the ative and sanitary aspects of vegetable yield, poing.	he qualitative,	
Soft skills		o Com	<ul> <li>king informed judgments and choices</li> <li>Ability to analyze the different situations of market environment, to plan and to manal improve the quality and efficiency of veget also in terms of sustainability and eco-conton.</li> <li>The acquisition of judgment autonomy is very evaluation of the teaching.</li> <li>Immunicating knowledge and understanding</li> <li>Personal skills aimed at communication, in group work and judgmental skills both at the human and ethical levels.</li> <li>acities to continue learning</li> <li>Expected learning outcomes, as knowled reported in the annex A of the Didactic course Plant Medicine (expressed by Europeans)</li> </ul>	rege actions to reaction, in patibility. Exerified by the technical and the technica	

Assessment and feedback	
Methods of assessment	Oral

Scienze del Suolo, della

Pianta e degli Alimenti

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#### Evaluation criteria

- Knowledge and understanding
  - Knowing how to design and manage the integrated production of vegetable crops and 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 vegetables to improve the qualitative, quantitative and sanitary aspects of the 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 vegetables, also in terms of sustainability and eco-compatibility.
  - o Self-producing microgreens.
  - o Conduct the crop cycle of the vegetable crops 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 attribution of the final mark

For students enrolled in the year in which the teaching is done, there will 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,
- c) the ability to analyze,
- 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 work. The evaluation of the student is based on criteria previously fixed such as reported in the Annex A of the Didactic Regulation of the Master Course in Plant Medicine.

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Additional information	
	Tutoring could be also on e-learning platforms.