



UNIVERSITÀ  
DEGLI STUDI DI BARI  
ALDO MORO

DIPARTIMENTO DI  
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	<b>Phytosanitary regulations</b> <b>Module of Integrated Course in Standards on quality</b>
Degree course	Master's degree in Plant medicine (LM69)
Academic Year	Second year
European Credit Transfer and Accumulation System (ECTS)	3
Language	Italian
Academic calendar (starting and ending date)	II semester (February 27 <sup>th</sup> , 2023 – June 16 <sup>th</sup> , 2023)
Attendance	No

Professor/ Lecturer	
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Tutoring (time and day)	Please, contact the teacher via e-mail. Tutoring could be also on e-learning platforms.

Syllabus	
Learning Objectives	Provide advanced knowledge and professional skills suitable for the application of phytosanitary regulations in quality certification process for agricultural products.
Course prerequisites	Basic knowledge on diagnosis of plant pathogens, plant pathology, casual agents of plant disease.
Contents	<p>International, European, national and local phytosanitary regulations for the certification of agricultural products and propagating plant materials:</p> <p>Mandatory control:</p> <ul style="list-style-type: none"> <li>○ M.D. 19/08/2005, n. 214 - Execution of Directive 2000/29/EC on “protective measures against the introduction into the Community of organisms harmful to plants or plant products and against their spread within the Community” (plant passport and quarantine pathogens)</li> <li>○ M.D. 14/04/1997 - Transposition of the Commission directives n. 93/48 / EEC of 23/06/93, n. 93/64/EEC of 5/7/1993 and n. 93/79/EEC of 21/09/1993 relating to “technical standards for the marketing of propagating material of fruit plants and fruit plants for fruit production (Conformitas Agraria Communitatis)”</li> <li>○ New phytosanitary regulations from December 14<sup>th</sup>, 2019 - Regulation (EU) 2016/2031 of the European Parliament of the Council of 26 October 2016 on: protective measures against pests of plants; new plant passport; registration of official professional operators (Ruop)</li> <li>○ Mandatory controls apply to specific quarantine pathogens</li> </ul> <p>Voluntary certification of plant materials:</p> <ul style="list-style-type: none"> <li>○ Certification of nursery productions in Italy (compulsory and voluntary) form MM.DD. 24/07/2003, 4/05/2006, 20/11/2006, D.Lgs. 124/2010, D.M.D. 6/12/2016 to M.D. 19/03/2019</li> <li>○ Italian Quality System and D.Lgs 2/02/2021 n.18:</li> </ul>



	<ul style="list-style-type: none"> <li>- Objectives</li> <li>- Utilization of the material</li> <li>- Principles and minimum conditions</li> <li>- Steps, categories, and health status of the material</li> </ul>
<b>Books and bibliography</b>	<p>Phytosanitary regulations - official web sites:  <a href="https://www.protezionedellepiante.it/servizio-fitosanitario/">https://www.protezionedellepiante.it/servizio-fitosanitario/</a>  <a href="http://www.sit.puglia.it/">http://www.sit.puglia.it/</a>  <a href="https://www.eppo.int/">https://www.eppo.int/</a>            Book of Abstracts of National Congress "Certification of nursery productions" -            Locorotondo-Valenzano, October 14-15, 1999</p>
<b>Additional materials</b>	

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
<b>Hours</b>			
75	16	14	45
<b>ECTS</b>			
3	2	1	
Teaching strategy			
<p>The lectures will be delivered in blended learning according to the didactic needs of the students. Lectures will be presented through PC assisted tools (PowerPoint, Adobe Acrobat, etc.), slide projector. The lab/field credit will consist in application of micropropagation techniques and visits to centers of certification program.</p>			
Expected learning outcomes			
<b>Knowledge and understanding on:</b>	<ul style="list-style-type: none"> <li>○ knowledge on phytosanitary regulations at national and European level relating to technical standards for the marketing of propagating material of fruit plants and fruit plants for fruit production</li> <li>○ knowledge on phytosanitary regulations and problems related to the production and sale of propagating material (certification programs)</li> </ul>		
<b>Applying knowledge and understanding on:</b>	<ul style="list-style-type: none"> <li>○ ability to apply the phytosanitary measures for the production and the marketing of propagating plant materials</li> </ul>		
<b>Soft skills</b>	<ul style="list-style-type: none"> <li>• <i>Making informed judgments and choices</i> <ul style="list-style-type: none"> <li>○ Ability to analyze the different production and marketing issues, to apply of the update phytosanitary measures for the control and management of quarantine and quality pathogens.</li> </ul> </li> <li>• <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> <li>○ evaluation of the personal ability to communicate in oral form using technical language</li> </ul> </li> <li>• <i>Capacities to continue learning</i> <ul style="list-style-type: none"> <li>○ ability to learn the protocols for the certification of plants and propagating materials.</li> </ul> </li> </ul>		

Assessment and feedback	
Methods of assessment	<p>The assessment of the knowledges acquired and the ability to apply them to practical problems will take place through an oral exam (see Didactic Regulation</p>



	<i>in Plant Medicine (art. 9) and in the syllabus, annex A). A minimum of 3 questions will be proposed to the student. Only the students enrolled in the academic year during which this module is provided, can have a midterm exam during the time of teaching. The result of it remains valid for the whole academic year and concurs to the final evaluation of the student (in proportion to the ECTS evaluated during the midterm exam).</i>
Evaluation criteria	<ul style="list-style-type: none"> <li>• <i>Knowledge and understanding</i> <ul style="list-style-type: none"> <li>○ evaluation of the updated knowledge on phytosanitary regulations at national and European level relating to technical standards for the marketing of propagating material of fruit plants and fruit plants for fruit production.</li> </ul> </li> <li>• <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> <li>○ evaluation of the ability to apply the phytosanitary measures.</li> </ul> </li> <li>• <i>Autonomy of judgment</i> <ul style="list-style-type: none"> <li>○ evaluation of ability to analyze the different production and marketing issues, to apply of the update phytosanitary measures for the control and management of quarantine and quality pathogens.</li> </ul> </li> <li>• <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> <li>○ evaluation of the personal ability to communicate in oral form using technical language, to participate to multidisciplinary working groups.</li> </ul> </li> <li>• <i>Communication skills</i> <ul style="list-style-type: none"> <li>○ Evaluation of the ability to organize the acquired knowledge in form of didactic presentation and to articulate it for didactic purposes</li> </ul> </li> <li>• <i>Capacities to continue learning</i> <ul style="list-style-type: none"> <li>○ evaluation of the ability to learn the protocols for the certification of plants and propagating materials.</li> </ul> </li> </ul>
Criteria for assessment and attribution of the final mark	<i>The final evaluation is awarded out of thirty. For students who have taken the midterm exam during the time of teaching, the evaluation of the exam is expressed as the average between the two evaluations. The exam is passed when the final evaluation is greater than or equal to 18.</i>
<b>Additional information</b>	