



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	Integrated Weed Control (Module of I.C. Agricultural acarology, nematology and weed management)
Degree course	Master's degree course in Plant Medicine (LM69)
Curriculum	
ECTS credits	3
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Eugenio CAZZATO	eugenio.cazzato@uniba.it	AGR 02

ECTS credits details	
Basic teaching activities	Production Disciplines

Class schedule	
Period	First semester
Year	First year
Type of class	Lectures, 2 ECTS (16 hours) Laboratory and field classroom, 1 ECTS (14 hours) E-learning using public (eg Teams) and dedicated (Agripodcast) platforms can be used, on demand as learning facilities for students with disabilities and for working students, student athletes and students with babies

Time management	
Hours	75
In-class study hours	30 (16 Lectures + 14 Lab & field cl.)
Out-of-class study hours	45

Academic calendar	
Class begins	September 27, 2020
Class ends	Januray 22, 2021

Syllabus	
Prerequisites/requirements	
Expected learning outcomes	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ Knowledge about the weed biology and physiology. ○ Knowledge about weed-crop interaction dynamics. ○ Knowledge about agronomic techniques and technical means for the integrated weed control. • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ Knowledge about weed identification and characterization. ○ Understanding the effects on crops. ○ Knowledge about use of technical means. • <i>Making informed judgements and choices</i> <ul style="list-style-type: none"> • Ability to analyze different situations in farms and



	<p>planning appropriate actions for the integrated weed control to improve the quality and efficiency of crop growing, including the sustainability and eco-compatibility of the strategies.</p> <ul style="list-style-type: none"> • <i>Communicating knowledge and understanding</i> • Personal skills aimed at communication, multidisciplinary group work and judgmental skills both at technical and human level. • <i>Capacities to continue learning</i> • 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)
Contents	<p>Definition and classification of weeds. Biology and ecology of weeds: dormancy, reproduction strategies, spreading in the time and space, germination and emergence, soil seed bank evolution. Quantitative and qualitative damages caused by weeds. Allergies, obstacles to cropping activities. Weed-crop competition. Allelopathy and parasitic plants. Weeds hosting pests. No chemical weed control: mechanical, physical, biological and ecological strategies. Chemical weed control: historical information. Herbicides: definition, classification, chemical and physical properties, toxicological and eco-toxicological activities, formulations and coadiuvants. Principles of integrated weed management. Study and surveying methods for weed community. Examples of Integrated Weed Management in Mediterranean crops. Soil management in orchards and grass covering: effects on soil and plants. Weed control in civil areas</p>
Course program	
Bibliography	<ul style="list-style-type: none"> • Catizone, P., Zanin, G., Malerbologia. Patron Editore, 2001, Bologna. • Notes of lectures distributed during the course.
Notes	
Teaching methods	<p>Lectures will be presented through PC assisted tools (Powerpoint, Adobe Acrobat, ect.).</p>
Assessment methods (indicate at least the type written, oral, other)	<p>The exam consists of an oral exam on the topics developed during the hours of lecture and theory and practice in the classroom and in the laboratory / production farms, as reported in the Academic Regulations for the Master Course "Plant Medicine" (Art. 9) and the plan study (Annex A). The evaluation of the student's preparation is based on pre-established criteria, as detailed in Annex A of the Academic Regulations for the Degree Course "Plant Medicine". For students who have stood the test of exemption, the examination of profit assessment is of thirty, and averaging the obtained votes.</p>
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> • Ability to understand the type of infestation and to be able to evaluate the effects on crops. • Ability to plan strategies of weed flora control. • <i>Applying knowledge and understanding</i>



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



	<ul style="list-style-type: none"> • To be able to apply integrated control techniques to improve the qualitative, quantitative and sanitary aspects of crop production. • <i>Making informed judgements and choices</i> • To be able to critically evaluate the different situations and plan efficient actions weed flora management. • <i>Communicating knowledge and understanding</i> • Assessment of personal skills, aimed at communication, multidisciplinary group work and judgmental skills, both in the technical and the human and ethical level. • <i>Communication skills</i> <ul style="list-style-type: none"> ○ ability to organize the acquired knowledge in form of didactic presentation and to articulate it for didactic purposes • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> • The assessment of the student's preparation is done on the basis of predefined criteria, as detailed in Annex A of the Master's Degree Course Code. For students who have supported the exemption test, the assessment of the profit test is expressed in thirtieth and averaging the votes obtained.
Further information	<p>Visiting hours Every day excluding Saturday (by appointment). Tutoring could be also on e-learning platforms.</p>