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

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

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| ECTS credits details | | | |
| Basic teaching activities | Production Disciplines | | |

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| Class schedule | |
| Period | First semester |
| Year | First year |
| Type of class | Lectures, 2 ECTS (16 hours) Laboratory and field classroom, 1 ECTS (14 hours) |

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

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| Academic calendar | |
| Class begins | October 9, 2017 |
| Class ends | Januray 26, 2018 |

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| 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 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. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> • Personal skills aimed at communication, multidisciplinary group work and judgmental skills both at technical and human level. • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> • The expected learning cpacities, in terms of knowledge and skills, are listed in Annex A of the Study Course Regulations (expressed through the European Degree Program |

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| | descriptions) |
| Contents | 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 |
| 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 | Lectures will be presented through PC assisted tools (Powerpoint, Adobe Acrobat, ect.). |
| 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).</p> <p>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".</p> <p>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> <ul style="list-style-type: none"> • 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> <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> <ul style="list-style-type: none"> • To be able to critically evaluate the different situations and plan efficient actions weed flora management. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> • Assessment of personal skills, aimed at communication, multidisciplinary group work and judgmental skills, both in the technical and the human and ethical level. • <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

Visiting hours

Every day excluding Saturday (by appointment).