



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	Urban Entomology (Module of I.C. Applied Entomology for Mediterranean crops)		
Degree course	Master Course in Plant Medicine (LM69)		
Curriculum			
ECTS credits	3		
Compulsory attendance	No		
Language	Italian		
Subject teacher	Name Surname	Mail address	SSD
	Francesco PORCELLI	francesco.porcelli@uniba.it	AGR11
ECTS credits details			
Basic teaching activities	Plant Protection disciplines		
Class schedule			
Period	Second semester		
Year	First year		
Type of class	Lectures, 2 ECTS (16 hours) study case in working groups. Laboratory and field classroom and workshops, 1 ECTS (14 hours). E-learning tools for additive didactic support by available learning facilities.		
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	March 1, 2021		
Class ends	June 11, 2021		
Syllabus			
Prerequisites/requirements	General knowledge on Arthropods		
Expected learning outcomes	<p><i>Knowledge and understanding</i></p> <ul style="list-style-type: none"> ○ Taxonomy, epidemiology, bionomics of urban pests ○ Urban pest identification <p><i>Applying knowledge and understanding</i></p> <ul style="list-style-type: none"> ○ Ability to manage urban ecosystem pests. ○ Ability to use proper control means and formulates to urban IPM. <p><i>Making informed judgements and choices</i></p> <ul style="list-style-type: none"> ○ Skill in urban environment analysis and in sustainable and eco-compatible pest control actions timing and placement <p><i>Communicating knowledge and understanding</i></p> <ul style="list-style-type: none"> ○ Communication skill by one more than Italian European written and spoken language, at least. <p><i>Capacities to continue learning</i></p> <ul style="list-style-type: none"> ○ Continuous learning in career. 		
Contents	<i>The course is tailored and focused on the diverse urban ecosystem</i>		



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	<p><i>management options. Recognition, management and control of urban green pest and contaminants arthropods plus "ex-post" control action effect estimation are the main topics of teaching. The course target to qualify the student as a technical consultant and expert witness mastering the topic by discussing several effective pest population management strategies and control means. Urban ecology and arthropods population dynamic in urban areas and parks. General entomology topics are discussed as needed for pest and damage control. Main features of urban and artificial environments, damage concept and nature. Control VS management, sampling procedures and damage estimation, IPM (Integrated Pest Management), ruling, hygiene (sanitization). Physical, biological, chemical and natural control. Pest bionomics and consequents control strategies for: Dermaptera, Blattodea, Isoptera, Hemiptera, Thysanoptera, Coleoptera, Diptera, Lepidoptera, Hymenoptera and lesser Taxa.</i></p>
Course program	
Bibliography	<ul style="list-style-type: none"> • Parris K.M. 2016 - Ecology of Urban Environments. Wiley Blackwell, ISBN: 9781444332643 (Hardback) ISBN: 9781444332650 (Paperback), 224 pp. • Partho Dhang (Ed.) 2014 - Urban Insect Pests Sustainable Management Strategies. C.A.B. International, ISBN-13: 978 1 78064 275 8, 249 pp. • Roques A, Kenis M., Lees D., Lopez-Vaamonde C., Rabitsch W., Rasplus J.-Y., Roy D.B. (Ed.s) 2010 - Alien terrestrial arthropods of Europe. Special Issue, BioRisk, 4: 1021 pp. http://pensoftonline.net/biorisk
Notes	
Teaching methods	Handouts in English are given at course kick-off, with Keynote and .pdf presentations.
Assessment methods	<p>Partial written: will be given in the form open written test questions. Candidate will apply replying about thirty questions. The assessment of the Partial will last for one year and will concur to the vote of the Integrated Course. The student will sustain the Partial on a volunteer basis.</p> <p>Exam oral: will be given in the form of topic discussion on the same arguments proposed in Partial and found in handouts and textbook. Candidate will discuss three topics picked from about the thirty highlighted in handouts and textbook. The Exam evaluation will concur to the vote of the Integrated Course. The student will sustain the Exam as detailed in the proper calendar. The evaluation of candidate Partial and Exam are in Annex "A" of the Master Course didactic rules that follow the common European reference framework. Being the handouts and the textbook in English, international students will follow the lessons in Italian and prepare the Partial and the Exam, as Italians will do.</p>
Evaluation criteria	<p><i>Knowledge and understanding</i></p> <ul style="list-style-type: none"> • Order, Family and main urban pest identification. Pest niche, bionomics and damages assessment • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ Ability to target the proper control actions components for built an effective IPM strategy versus urban pests. • <i>Making informed judgements and choices</i>



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	<ul style="list-style-type: none"> ○ Skill to adapt control means and strategies to actual urban pest control situation. • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Ability to share the ratio and expected results of urban pest control chooses and opportunities with social and private environments. • <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"> ○ Skill to evolve knowledge and pest management background to follow changes in commitment requests.
Further information	<p>Visiting hours: Tuesday and Thursday, please e-mail to agree on time.</p>