| General Information |  |
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| Academic subject | Applied Entomology (Module of I.C. Applied Entomology for <br> Mediterranean crops) |
| Degree course | Master Course in Plant Medicine (LM69) |
| Curriculum |  |
| ECTS credits | 6 |
| Compulsory attendance | No |
| Language | Italian |


| Subject teacher | Name Surname | Mail address | SSD |
| :--- | :--- | :--- | :--- |
|  | Rocco ADDANTE | rocco.addante@uniba.it | AGR/11 |


| ECTS credits details |  |  |  |
| :--- | :--- | :--- | :--- |
| Basic teaching activities | Plant Protection <br> disciplines |  |  |


| Class schedule |  |
| :--- | :--- |
| Period | Second semester |
| Year | First year |
| Type of class | Lectures, 4 ECTS (32 hours) <br> Laboratory and field classroom, 2 ECTS (28 hours) |


| Time management |  |
| :--- | :--- |
| Hours | 150 |
| In-class study hours | 60 (32 Lectures + 28 Lab \& field cl.) |
| Out-of-class study hours | 90 |


| Academic calendar |  |
| :--- | :--- |
| Class begins | March 5, 2018 |
| Class ends | June 22,2018 |


| Syllabus |  |
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| Prerequisites/requirements | Knowledge of zoology and general entomology requests for <br> admission to the Master course. |
| Expected learning outcomes | Knowledge and understanding <br> o Knowledge of bio-ethology and ecology of the main insect <br> species included in the teaching program. |
| o Knowledge of the interactions between phytophagous |  |
| insects and the main components of agro-ecosystems. |  |
| o Knowledge of methods and equipment for monitoring and |  |
| sampling phytophagous insects. |  |

$\left.\begin{array}{|l|l|}\hline & \begin{array}{l}\text { o Learning skills will be evaluated in the classroom by putting } \\ \text { oral questions on the main subjects of the teaching program. } \\ \text { The expected learning outcomes, in terms of knowledge and } \\ \text { skills, are listed in Annex A of the Study Course Regulations } \\ \text { (expressed through the European Degree Program } \\ \text { descriptions) }\end{array} \\ \hline \text { Contents } & \begin{array}{l}\text { Introduction. Classification of Insects. Characteristics of the main } \\ \text { Insect Orders. } \\ \text { The main insect pests of Stone-fruits:Monosteira unicostata, } \\ \text { Myzus persicae, Pseudaulacaspis pentagona, Quadraspidiotus } \\ \text { perniciosus, Anarsia lineatella, Cydia molesta, Ceratitis capitata, } \\ \text { Rhagoletis cerasi, Capnodis tenebrionis. } \\ \text { The main insect pests of Citrus: Aleurothrixus floccosus, Aphis } \\ \text { spiraecola, Aphis gossypii, Toxoptera aurantii, Icerya purchasi, } \\ \text { Planococcus citri, Aonidiella aurantii, Phyllonistis citrella. }\end{array} \\ \hline \text { The main insect pests of Vegetables: Thrips tabaci, Trialeurodes } \\ \text { Evaluation criteria } \\ \text { vaporariorum, Aphis fabae, Macrosiphum euphorbiae, Tuta } \\ \text { absoluta, Phtorimaea operculella, Helicoverpa armigera, Gortyna } \\ \text { xanthenes, Liriomyza huidobrensis, Leptinotarsa decemlineata, } \\ \text { Bruchus rufimanus. } \\ \text { The main insect pests of Cereals: Dociostaurus maroccanus, }\end{array}\right\}$

|  | the main factors of agro-ecosystems, the methods and tools for monitoring and sampling phytophagous insects, <br> - some predictive models of phytophagous insects, the criteria of crop protection management with particular regard to the biological and integrated control of phytophagous insects. <br> - Applying knowledge and understanding <br> - The student must own the ability <br> - to identify phytophagous insects and the symptoms they induce on host plants, as well as their main natural enemies <br> - to properly monitor and sample phytophagous insects <br> - to use proper methods and tools to control phytophagous insects. <br> - Making informed judgments and choices <br> - The student must be able to apply the acquired knowledge on the management of phytophagous insects to the different field realities. <br> - Ability to learn <br> - The student must demonstrate that he/she has learned the main topics discussed during the course of the curriculum. |
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| Further information | Visiting hours: <br> All afternoons by previous agreement. |

