

**INTERNATIONAL JOINT PhD PROGRAM IN "PLANT HEALTH IN SUSTAINABLE AGRICULTURE"
(PHISA)****Mandatory courses (10 ECTS)**

1. **PSWB** - Principles of Scientific Work in Bio-science - 3 ECTS
2. **BINF** - Bio-informatics - 3 ECTS
3. **KMRFS**- Knowledge and management of research funding systems – 4ECTS

Elective courses**Focus area: Diagnosis in plant health and IPM**

1. **ADM&TDO** - Advanced diagnostic methods and techniques for detection of prejudicial and beneficial organisms
2. **IAS** - Integrated approach to surveillance of prejudicial organisms affecting plant health
3. **CQPO, MNNB & ERA** - Control of quarantine prejudicial organisms, managing of non-native beneficial organisms and evaluation of risk assessment based on EU protocols
4. **DPH** - Diagnosis in plant health
5. **QP & PM** - Quarantine Pests and Pest Management

Focus area: Sustainable use of pesticides

1. **PPPSA** - Plant Protection Products in Sustainable Agriculture
2. **EFP** - Environmental fate of pesticides
3. **TEP** - Toxicology and Ecotoxicology of pesticides

Focus area: Plant feeders

1. **ATPF** - Advanced techniques in plant feeders
2. **FIPRM** - Frontiers in invertebrate pest and resistance management
3. **AIP** - Advanced invertebrate pathology
4. **IAP** - Invasive alien pests
5. **VPP** - Vectors of plant pathogens
6. **IMUP** - Integrated Management of urban pests

Focus area: Plant pathology

1. **MPMI** - Molecular Plant Microbe Interactions

Focus area: Weed science

1. **WMPPA** - Weed management in precision agriculture
2. **MWS** - Modelling in Weed Science



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Co- Funded by the European Union

3. IPS - Invasive plant species

Focus area: Mycotoxins and food safety

1. MFS - Mycotoxins and food safety

Focus area: General contents of transversal interest

- 1. BD&BI - Bio-diversity and bio-indicators in sustainable agriculture**
- 2. GIS & SDA - GIS & Spatial Data Analysis**
- 3. BINF - Bio-informatics**
- 4. KMRFS- Knowledge and management of research funding systems**