

Pollinators within IPM Strategies for Agriculture

Course dates and location: 10-14 September 2018 in Helsinki, Viikki Campus of the University of Helsinki.

Course Series Description

In accordance with the NOVA values, mission and vision, the PhD-course series "Biodiversity and integrated pest management" focuses on sustainable use of natural resources and food production in the Nordic countries, accommodating also changes caused by global warming. Integrated Pest Management (IPM) has become the official crop protection policy in the EU as of 1.1.2014, but enhanced research into suitable IPM-systems is needed in all European countries, including the Nordic region. Understanding mechanisms and developing suitable IPM strategies is the main emphasis in the course series.

The objective of the course series is to provide each participating student with the knowledge, skills, and competence necessary for addressing the challenges in developing integrated pest management for the Nordic countries, as required by the IPM Directive of the European Union. These will be provided by in-depth lectures by leading Nordic and European experts in the specific topics, via hands-on laboratory and field exercises, pre- and post-campus assignments (including required preparatory readings), and seminar/workshop sessions.

For a full course description, please see NOVA University Network website:
<https://www.nmbu.no/en/students/nova/students/phd-courses/phd-courses-2018/node/33558>

Learning Outcomes

1. After taking the course, the students will have knowledge of ecological interactions determining the effects of biotic diversity on pest management and ecosystem services including pollination, and at the interface between the various levels of biodiversity.
2. In addition, they will acquire skills and techniques within this area of research, required to solve critical problems and/or innovation, and to extend and redefine existing knowledge or professional practice of pest management and agricultural production systems.
3. After finishing these courses, students will be able to demonstrate substantial authority, innovation, scholarly and professional integrity, and commitment to the research and development of new ideas on integrated pest management.
4. Inspiration, techniques and tools for students to conduct research in the topic areas covered by the course

Admission

Admission for NOVA courses is handled by the course organizer, the Department of agricultural sciences, University of Helsinki. **Apply by sending an email to the course responsible, professor Heikki Hokkanen** ([heikki.hokkanen\[at\]Helsinki.fi](mailto:heikki.hokkanen[at]Helsinki.fi)), cc Dr. Ingeborg Menzler-Hokkanen ([Ingeborg.menzler-hokkanen\[at\]helsinki.fi](mailto:Ingeborg.menzler-hokkanen[at]helsinki.fi))

Course application deadline: July 31, 2018



NOVA PhD course of 3 ECTS

Estimated Workload

- 22 hours of lectures
- 15 hours of lab and field work
- 8 hours of seminars
- 45 hours of independent work

Teachers:

Prof. **Gadi V.P. Reddy**, Montana State University
Dr. **Paul Egan**, Swedish University of Agricultural Sciences
Dr. **James Kitson**, University of Newcastle
Prof. **Heikki Hokkanen**, University of Helsinki
Dr. **Ingeborg Menzler-Hokkanen**, University of Helsinki

Prerequisite Knowledge

Pre-required knowledge in general is acceptance to a PhD-program in a topic of relevance to the course main theme. Advanced MSc-students may participate in exceptional cases and upon supervisor endorsement.

