

**Course title: Introduction to Plant Protection Zoology (SMKNV2A15AN)****Course leader:** Márk Szalai, PhD**Other lecturers and instructor:** Ferenc Tóth, PhD; Gergely Ambrus**Semester:** 2015-16/2 (spring)**Credits:** 3**Weekly workload:** 1 hr lecture + 1hrs practice**Pre-requisites:** -**Aim:**

This introductory entomology course gives an overview of key pests of arable crops, orchards, greenhouses and stored products. The possible control options according to the framework of integrated pest management are introduced as well as economical threshold concepts in pest management.

Lectures		Practicals, seminars	
Week	Topic/lecturer	Week	Topic/Instructor
1	Introduction: Overview of key animal groups in entomology	1	Morphology of insects: mouthparts
2	Principles of pest management	2	Insect metamorphosis: Grouping the larvae
3	Pests of field crops and their control I	3	Pest damage in field crops I.
4	Pests of field crops and their control II	4	Pest damage in field crops II.
5	Pests of field crops and their control III	5	Pest damage in field crops III.
6	Pests of greenhouses and their control I	6	Pest damage in greenhouses I.
7	Pests of greenhouses and their control II	7	Pest damage in greenhouses II.
8	Pests of greenhouses and their control III	8	Pest damage in greenhouses III.
9	Pests of orchards and their control I	9	Pest damage in orchards I.
10	Pests of orchards and their control II	10	Pest damage in orchards II.
11	Pests of stored products and their control	11	Pest damage in stored products
12	Economical threshold in pest management	12	Scouting insect damages in the botanical garden
13	Identification test	13	Identification test



BSc in Agricultural Engineering

Reading:

Distributed course materials

www.plantprotection.hu

www.inra.fr/hyppz/pa.htm

Supplemental books and suggested readings will be mentioned and/or distributed during the course.

Requirements:

Attending the lectures is strongly recommended, participating in practices is compulsory. In case of absence from practices, the student has to consult with the course leader (mini-exam covering the missing practice or extra homework should be done). In order to take the final exam the entomology identification test has to be passed (see below for detailed description)

Assessment:

Specimens and insect damages have to be identified (10+10) at the final practical. The pest list is circulated in a separate document. No grades for the test, only pass-fail (pass: above 80%). After the successful identification test the final oral exam can be taken: the pests of the selected crops and their control will be assessed.

Contact:

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Gödöllő, 02/02/2016