

Study Programme: Phytomedicine			
Course Unit Title: Special Entomology 1			
Course Unit Code: 19.FTM024			
Name of Lecturer(s): Assoc. prof. Aleksandra Konjevic			
Type and Level of Studies: Undergraduate academic studies			
Course Status (compulsory/elective): compulsory			
Semester (winter/summer): winter			
Language of instruction: engl			
Mode of course unit delivery (face-to-face/distance learning): face-to-face			
Number of ECTS Allocated: 4			
Prerequisites: General entomology; Systematics and medical entomology			
Course Aims: Introduction with harmful insect fauna in agricultural production, morphology, anatomy and behavior of the most important insect species, with an emphasis on the symptoms identification and their significance. Knowledge of the harmful insect development stage that causes damage, including the sensitive host plant phenophase provides a good basis for timely implemented measures to control harmful species.			
Learning Outcomes: Knowledge of the symptoms of damage caused by harmful insects in agricultural production, and knowledge of the causes of the observed damage in accordance with the phenophase of the host plant. The acquired knowledge provides a good basis for monitoring and control of harmful insect species in crop production.			
Syllabus: <i>Theory</i> Getting to know the morphology, anatomy and developmental biology of polyphagous harmful species; harmful species in cereals, fallow crops (maize, sunflower), industrial crops (sugar beet, oilseeds) and fodder plants. Pest species of underground, vegetative and generative organs. Distribution, importance, biology, harmfulness and ecology of pest species and the possibilities of an integral approach in their control. Definition and possibilities of beneficial insect use. <i>Practice</i> Individual and group interactive work; students' individual work on the pest species identification based on the morphological characteristics of the sampled and repaired material. Use of keys for identification. Recognizing damage symptoms. Knowledge of beneficial insect species.			
<ul style="list-style-type: none"> • Required Reading: Alford, D.V. (1999): A Textbook of Agricultural Entomology, 1st edition, Wiley-Blackwell, 320 pgs; ISBN-13 : 978-0632052974 van Emden, H.F. (2013): Handbook of Agricultural Entomology. Copyright © 2013 John Wiley & Sons, Ltd. Online ISBN:9781118469347, 312 pgs			
Weekly Contact Hours: 6	Lectures: 4	Practical work: 2	
Teaching Methods: theoretical teaching: lectures using video presentations and modern didactic devices; practical classes: student individual work on the identification of symptoms and insect species using binocular magnifiers and identification keys, visual demonstrations in laboratory, interactive seminars			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation		written exam	
Practical work		oral exam	60

Preliminary exam(s)	40	
Seminar(s)			
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			