

Study program: Organic crop and livestock production			
Type and level of study: Bachelor academic studies			
Course Title: GENERAL PLANT PROTECTION IN ECOLOGICAL AGRICULTURE			
Professors: Dr. Slobodan Milenković, Full professor			
Status: Optional 3, semester VI			
ECTS: 8			
Prerequisite: None			
The goal of the course Transfer the students' knowledge on plant protection in organic agriculture as a set of harmonized methods and procedures in the economical and environmentally friendly way to manage populations of harmful organisms in crops, orchards, greenhouses and warehouses in order to maintain yields, environment, biodiversity, human health, and animals.			
The outcome of the course The acquired knowledge and skills on the principles of plant protection in organic farming. Practical application of knowledge to protect plants in the system of environmental management in agriculture. The knowledge acquired from biology of harmful organisms (pathogens, insects, mites, rodents, weeds), and the understanding of mutual dependence of agro ecosystems. The acquired knowledge of characteristics and application of biopesticides			
Syllabus <i>Theoretical study</i> – General terms of phytopathogenic microorganisms, pests, weeds and biopesticides; Economically important pathogens: mycosis, viral and bacterial diseases of cultivated plants, nematodes; The concept of plant protection in organic farming; Economically significant pest of cultivated plants; Measures to protect plants in arable farming, orchards and greenhouses. Biological control and cultural practices; Insects and mites vectors of human diseases, rodents; Knowledge of weed biological features of weeds, weed control: indirect and direct measures; Biopesticides: term and definition, classification, properties, biological efficacy, the application. Legislation in the field of plant protection; <i>Practical Exercise.</i> Recognizing the symptoms of plant diseases; Identification and development of cycle pest on cultivated plants; Identification and development of cycle of weed plants; Beneficial organisms in agriculture; Measures to protect plants in organic farming; Legislation;			
Literature Allan S. Felsot, Kenneth D. Rake. 2006. Crop Protection Products for Organic Agriculture 1st Edition, American Chemical Society 326 p Felsot, A. S., Rake, K. D. (2006): Crop Protection Products for Organic Agriculture, 1st Edition. American Chemical Society. Bellon, S., Penvern, S. (2014): Organic Farming, Prototype for Sustainable Agricultures. © Springer Science+Business Media Dordrech. Finckh, M. R., Ariena H. C. van Bruggen, Tamm, L. (2015): Plant Diseases and Their Management in Organic Agriculture. Published by APS Press of the American Phytopathological Society.			
Number of lectures: 6			Other Lessons
Lectures: 3	Practices: 3	Other forms of teaching:	Student research work:
Teaching methods: Interactive teaching with video presentations, questions and discussion. Practical exercises on plant and insect material, microscopy and sketching. Projects with experiments in the field, visiting farms and businesses.			
Score (maximum 100 points)			
Pre-commitments	Points	The final exam	Points
Activity during lectures	10	Written exam	
Practical lessons		Oral examination	40
Preliminary exams	30		
Seminars	20		
<i>Total</i>	60		40