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| Course: | *Integrated Pest Management in Vegetables* |
| Course id: 3МГБ1И30 |
| Number of ECTS: 6 |
| Teacher: | PhD Marija Zgomba, Teaching assistant: MSc Dušan Marinković |
| Course status | Elective |
| Number of active teaching classes (weekly) |
| Lectures: 2 | Laboratory classes: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. Educational goal

The objective is for the students to acquire the knowledge of:- pesticides, application, ways of getting into the soil, water, plants, decomposition and impact on the environment- metods in integrated plant/vegetable protection, possibilities of the application of various mixtures of pesticides, pesticide and non-pesticide materials, alternative methods to conventional- Sound, environmentaly friendly approach to vegatable growing |
| 1. Educational outcomes

The acquired knowledge of different methods applicable to vegateble growing in field and protected environment. Economic treshold of pest that requires protection of vegetables. The choice of methods depending on pests, pesticides and their fate in the environment. Methods of pesticide application, effect on non-targets and limitations of application frequency that will contribute to successful, safe and environmentally friendly vegetable production. |
| 1. Course content

***Theoretical teaching***: New classes of pesticide and biological agents, types formulations and way of application. Biological effects of insecticides in vegetable crops, consequences of pesticide application; strategy for pesticide and biologicals application in view of integrated pest management. Selectivity, management and monitoring of insecticide resistance Release of pesticides into the environment, water, soil and plants and their decomposition Compatibility of pesticide compounds.Integrated Pest Management, Biological Control and Organic Agriculture. Europen and national legislationin in the field of plant protection products.***Practical exercises***: Assesments of methods to determine presence of pests, monitoring techniques, tresholds for the major pests. pesticides in environment. Pesticide effects on test organisms, non-targets, protection programmes for vegetables and newly planted areas. Choice of methods for a safe control of pest organisms. |
| 1. Teaching methods

Lectures, Practical classes, Laboratory exercises |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam | Mandatory | Points |
| Practical classes | Yes | 50 | *Oral part of the exam* | Yes | 30 |
| Research work | Yes | 20 |  |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Čamprag D. | Integralna zaštita ratarskih kultura | Polјoprivredni fakultet, Novi Sad | 2000 |
|  | Dent, D. | Insect Pest Management, 2nd Edition | CAB International, Wiltshire | 2005 |
|  | Hillocks I R.J. and J.E. Cooper | Integrated Pest Management – can it contribute to sustainable food production in Europe with decreased reliance on conventional pesticides? | European Centre for IPM, University of Greenich | 2012 |
|  | Cooper J. and Dobson H. | The benefits of pesticides to mankind and the environment | www.Sciencedirect | 2007 |

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| Znak univerziteta | UNIVERSITY OF NOVI SADFACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme AccreditationMASTER ACADEMIC STUDIES FIELD PLANT GROWING |
| Table 5.2 Course specification |