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| Course:  | APPLIED PHYTOPHARMACY |
| Course id: 3МFМ1О05 |
| Number of ECTS: 5 |
| Teachers: | Sanja Lazić, PhD, professor; Dušanka Inđić, PhD, professor; Marija Zgomba, PhD professor;Vojislava Bursić, PhD, assist. professor; Slavica Vuković, PhD, assist. professor; Maja Meseldžija, PhD, assist. professor  |
| Course status | Mandatory |
| Number of active teaching classes (weekly) |
| Lectures: 2 | Practical classes: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. Educational goal

Acquiring the knowledge of:* pesticides, their behavior, application, ways of getting into the soil, water, plants, decomposition and influence on humans, wildlife and plants,
* evaluation of biological effects, possibilities of the application of various mixtures of pesticides, pesticide and non-pesticide matters,
* mastering the standard methods and analysis of the obtained data
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| 1. Educational outcomes

The acquired knowledge of pesticides and their fate in the environment, method of pesticide application, effect on humans will contribute to the capability of successful work in the field of modern application of zoocides and fungicides in agricultural production, along with the environmental protection and the way which provides a healthy and safe production.  |
| 1. Course content

*Theoretical classes:* New types of pesticide formulations and non-pesticide ingredients. Biological effects of insecticides and fungicides (field crops, vegetable crops, fruits, viticulture, horticulture); consequences of pesticide application; strategy for pesticide application. Insects and insecticide transfer. Mode of action, selectivity, management and monitoring of insecticide resistance. Release of pesticides into the environment, water, soil and plants and their decomposition. Pesticides and humans. Assessment of physico-chemical properties and compatibility of pesticide compounds.Integrated Pest Management, Biological Control and Organic Agriculture. Europen and national legislation in the field of plant protection products.*Practical training:* Assessments of methods to determine presence of pesticides in environment. Pesticide residues, instrumental analysis methods which are applied to the residues, control and detection of selected pesticide residues in water, soil and plants.Pesticide effects on test organisms, non-targets, protection programs for cultivated plants and newly planted areas. Choice of methods for results analysis. |
| 1. Teaching methods

Lectures, Practical classes, Seminars |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes |  | Oral exam  | Yes | 30 |
| Test | No |  |  |
| Exercise attendance | Yes | 50 |
| Seminar papers | Yes | 20 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Šovljanski R. & Lauić S. | Osnovi fitofarmacije | Poljoprivredni fakultet, Novi Sad | 2007 |
|  | Vitorović S. & Milošević M. | Osnovi toksikologije sa elementima ekotoksikologije | Univerzitet u Beogradu, Beograd  | 2002 |
|  | Janjić V. & Elezović I. | Pesticidi u poljoprivredi i šumarstvu u Srbiji 2010 | Društvo za zaštitu bilja Srbije, Beograd  | 2010 |
|  |  | EPPO Standards, Guidelines for the efficacy evaluation of plant protection products, Vol. 1-3 | http://pp1.eppo.int/ | 2004 |
|  | Dent D. | Insect Pest Management, 2nd Edition | CAB International, Redwood Press Ltd. Wiltshire  | 2005 |

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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 IN PLANT MEDICINE |
| Table 5.2 Course specification |