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| Course: | **MACHINES AND EQUIPMENT FOR INTEGRAL PESTICIDE APPLICATION**ZMPT1I125 |
| Course id: |
| Number of ECTS: |
| Teacher: | Rajko Bugarin |
| Course status | Elective |
| Number of active teaching classes (weekly) |
| Lectures: 2 | Practical classes: 2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None/navesti ako ima |
| 1. Educational goal

The aim of the course is to introduce students and enabled for proper selection, development and exploitation of machines and devices for the controlled application of pesticides with the maximum protection of the environment and create conditions for healthy food. |
| 1. Educational outcomes

After taking the course, students gain knowledge and skills that enable him to design, exploit, perform optimal selection and proper use of equipment and devices for the controlled application of pesticides. |
| 1. Course content

Integrated pest management and the impact of pesticide application on its performance. Technique for reduced pesticide application. Machines and apparatus for the controlled application of pesticides from the point of CDA (Controlled Droplet Application) and methods of environmental protection. Contemporary sprayers and air assisted sprayers and automatic control of the same importance. Approval testing and inspection of pesticide application equipment according to EN 13790Laboratory and field testing of machines and devices for the controlled application of pesticides according to EN 13790 Selection and use of machines in an integral and a reduced use of pesticides. Defining the exploitation potential of machinery necessary for controlled application of pesticides. Working with contemporary systems for automatic control of machines. The standards sprayers and air assisted sprayers should fulfill according to EN 13790 |
| 1. Teaching methods

Lectures, Practice/ Practical classesNa primer: Lectures, Practice/ Practical classes, Consultations, study, research work… (izabrati) |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes/No | 5 | *Theoretical part of the exam/Oral part of the exam/Written part of the exam-tasks and theory* | Yes | 60 |
| Test | Yes/No |  |  |
| Exercise attendance | Yes/No | 5 |
| *Ovde se mogu pojaviti i kolokvijumi i seminarski rad (npr. Test, Term paper)* | Yes/No | 30 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Bugarin, R. Sedlar, A. | Fitomedicina | Univerzitet u Novom Sadu, Poljoprivredni fakultet | 2014 |
|  | Bugarin, R. Bošnjaković, A. Sedlar, A. | Mašine u voćarstvu i vinogradarstvu | Univerzitet u Novom Sadu, Poljoprivredni fakultet | 2014. |
|  | Kavgić P. I saradnici ( ..Bugarin R, Đukić N. ...): | Energetski autonomna i ekološki čistafarma (EAEČF) | Univerzitet u Novom Sadu, Poljoprivredni fakultet | 1999 |
|  | Đukić N.,Sedlar A.,Bugarin R | Savremena tehnika za aplikaciju pesticida | Univerzitet u Novom Sadu, Poljoprivredni fakultet | 2006 |
|  | Đukić, N. | Mehanizacija integralne zaštite bilja | S. Moravica; MRAZ  | 1990 |

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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 Agricultural engineering |
| Table 5.2 Course specification |