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| Course: | Agricultural engineering of sustainable plant protection, fruit and grape production |
| Course id: ZMPT1I05 |
| Number of ECTS: 5 |
| Teacher: | Aleksandar D. Sedlar |
| Course status | Election |
| 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

Course goal is to get theoretical and practical knowledge about machines and equipment which will help students to achieve optimal choose and exploitation of them in sustainable and environmental friendly fruit and grape production.  |
| 1. Educational outcomes

Knowledge get in this subject will enable correct choose and exploiting of machines and equipment wits special accent to energy consumption, plant protection efficacy, production of health safety food and environmental protection. |
| 1. Course content

LecturesMachines development tendency in fruit and grape production. Research and inspection of machines according European normative and standards. Advantage spraying system. Methods for application rate determination. Modern approach in aim of sustainable pesticide application. Harvesting in fruit and grape production. Equipment for post harvesting technology in fruit and grape production.Practical classesIntroducing with machines and equipment technical and exploitation specification and there possibility for sustainable and environmental friendly fruit and grape production. Introduce with European normative and standards through the field and laboratory experiments. |
| 1. Teaching methods

 Lectures, Practical classes |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes | 5 | *Theoretical part of the exam/Oral part of the exam/* | Yes | 50 |
| Exercise attendance | Yes |  |  |
| *term paper* | Yes | 45 |
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| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Zemanek P, Burg P. | Vinohradnicka mechanizace | Mendelove Univerzite v Brno, Zahradnicke fakulte v Lednici | 2010. |
|  | Bugarin R, Bošnjaković A, Sedlar A. | Mašine u voćarstvu i vinogradarstvu | Univerzitet u Novom Sadu, Poljoprivredni fakultet | 2014. |

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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 |