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| Course: | Agricultural engineering of sustainable agriculture |
| Course id: ZMPT1002 |
| Number of ECTS: 5 |
| Teacher: | Aleksandar D. Sedlar, Mirko Đ. Simikić |
| Course status | Mandatory |
| Number of active teaching classes (weekly) |
| Lectures: 4 | 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 tractors which will help students to achieve optimal choose and exploitation of them in sustainable and environmental friendly agricultural production.  |
| 1. Educational outcomes

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

LecturesDevelopment tendency of tractors, machines in field, vegetable, fruit, grape and animal production – chosen chapter. Research of tractors and machines and inspection of tractors and machines according European normative and standards. Advantage system for plugging, sowing and spraying in agriculture technology. Practical classesIntroducing with machines and tractors technical and exploitation specification and there possibility for sustainable and environmental friendly agricultural 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 |
|  | Nikolić R. i sar. | Ispitivanje traktora prema pravilima OECD | Univerzitet u Novom Sadu, Poljoprivredni fakultet | 2006. |
|  | Bjkin A. i sar. | Ekološki i energetski parametri primene poljoprivredne mehanizacije | 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 |