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|  Course: | AGRICULTURAL MACHINES  |
| Course id: 3ORT5O21 |
| Number of ECTS: 7 |
| Teacher: | Mihal O, Meši, PhD, Professor; Ondrej O. Ponjičan, PhD, Assistant professorOndrej O. Ponjičan, PhD, Assistant professor |
| Course status | Mandatory |
| Number of active teaching classes (weekly) |
| Lectures: 4 | Practical classes: 3 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. Educational goal

Acquiring the necessary knowledge about the importance and application of agricultural machinery in arable crop production, as one of the prerequisites for the proper and successful cultivation of plants in the open field and in greenhouses. |
| 1. Educational outcomes

The knowledge obtained within the subject Agricultural machinery should enable the proper selection and use of machines, devices and equipment in the production of certain plant species. |
| 1. Course content

*Theoretical classes:* Diesel engine and tractor. Machines for basic and supplementary cultivation and bank and beds formation. Machines for fertilizing, planting, seedling production, planting, inter-row cultivation and plant protection. Machines for the preparation of animal feed. Machinery for harvesting field crops. Machines for harvesting vegetable crops. Materials for the formation of temporary enclosures. Machine, tools and equipment in greenhouses. Work protection measures. Machines influence on the environment. *Practical classes:* Introduction to the purpose of the basic parts, the principle of operation, adjustments, maintenance, exploitation and work protection for agricultural machinery in crop and vegetable production. Field exercises. |
| 1. Teaching methods

Theoretical classes: verbal-textual and illustrative demonstrative methods.Practical classes: management of independent work of students, demonstratively illustrative methods, computational methods. |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam  | Mandatory | Points |
| Lecture attendance | Yes | 5  | *Oral part of the exam* | Yes | 50 |
| Graphics work | Yes | 20 |  |
| Exercise attendance | Yes | 5 |
| Term paper | Yes | 20 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Bajkin A. | Mechanization in vegetable production (in Serbian: Mehanizacija u povrtarstvu)  | University of Novi Sad,Faculty of Agriculture, Novi Sad, | 1994. |
|  | Meši M. | Agricultural machines (in Serbian: Poljoprivredne mašine) | University of Novi Sad,Faculty of Agriculture, Novi Sad, | 2012 |
|  | Bajkin A, Ponjičan O, Orlović S, Somer D:  | Mechanization in horticultural production  (in Serbian: Mašine u hortikulturi) | University of Novi Sad,Faculty of Agriculture, Novi Sad, | 2005. |

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| Znak univerziteta | UNIVERSITY OF NOVI SADFACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme AccreditationUNDERGRADUATE ACADEMIC STUDIESCROP SCIENCE |
| Table 5.2 Course specification |