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| Course: | | BIO ENGINЕERING | | | | | | | | |
| Course id: ЗМПТ1001 | |
| Number of ECTS: 5 | |
| Teacher: | | Jan Turan J, PhD, Professor; Ondrej O, Ponjičan PhD, Assistant professor  MSc Vladimir V, Višacki | | | | | | | | |
| 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   To introduce students with post harvest technologies in farming, vegetable and fruit growing, biotechnical systems of protected areas, engineering, horticulture and landscape architecture. | | | | | | | | | | |
| 1. Educational outcomes   Training for independent recognition of needs primary processing in farming, vegetable and fruit growing, in relation to the cultivation of plants in greenhouses, horticulture and landscape architecture, and environmental protection. | | | | | | | | | | |
| 1. Course content   *Theoretical classes:*  Primary processing of agricultural crops. Introducing the modified atmosphere storage of fruits and vegetables, the impact on an atmosphere of controlled maturation, preparing for the green market and large distributive centers, management of distant markets and the concept of making the brand. Also, learning about the production of fruits, vegetables and flowers in the greenhouse microclimate and maintenance effort, as the machinery for the production of substrates, seedlings, for the establishment of lawns and shaping ornamental shrubs and trees.  *Practical teaching: Exercise, Other modes of teaching, Study research work*  Laboratory and oral exercises on the changes in the physical size of the crop and horticultural planting material and the idea of determining the protected area. Study visits to the appropriate centers for processing in farming and horticulture and planting materials. | | | | | | | | | | |
| 1. Teaching methods   Theoretical classes: auditory and demonstrative illustrative 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 |
| Exercise attendance | | | Yes | 5 | |  | | | | |
| Term paper | | | Yes | 40 | |
| 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. |
|  | 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. |
|  | Turan, J. | | Eksploatacija proizvodnih sistema | | | University of Novi Sad,  Faculty of Agriculture, Novi Sad, | | | | 2009. |
|  | Babić Ljiljana,  Babić M. | | Drying and storage  (in Serbian: Sušenje i skladištenje) | | | University of Novi Sad,  Faculty of Agriculture, Novi Sad, | | | | 2000. |
|  | Ilić Z, Falik E,  Đurovka M, Martinovski Đ, Trajković R. | | Physiology and technology vegetables and fruit storage  (in Serbian: Fiziologija i tehnologija čuvanja povrća i voća. | | | Tampograf, Novi Sad. | | | | 2007. |

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| Znak univerziteta | UNIVERSITY OF NOVI SAD  FACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme Accreditation  MASTER ACADEMIC STUDIES  *AGRICULTURAL ENGINEERING* |
| Table 5.2 Course specification | | |