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| Course: | Grapevine organogenesis |
| Course id: 3MВВ1О03 |
| Number of ECTS: 6 |
| Teacher: | Ivan D. Kuljančić |
| Course status | Mandatory |
| Number of active teaching classes (weekly) 3 |
| Lectures: 30 | Practical classes: 30 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | Grapevine biology and reproduction, Grapevine growing and technology, Nursery production |
| 1. Educational goal

the education and training of master students in the field of grapevine organogenesis. Candidate should be based registry study of literatures and scientific works, expand knowledge of the origin of some organs and tissues.  |
| 1. Educational outcomes

the formation of professionals with academic qualifications, which has an extended knowledge in relation to the knowledge acquired at the undergraduate studies. Student must be prepared to upgrade his knowledge, in the field of grapevine organogenesis, in both, theoretical and practical work, and especially on the terrain in the vineyard. He must be prepared to resolve a large number of problems, which are increasingly common in the last time, in nursery and grapevine production. |
| 1. Course content

Root: root zones, primary anatomical cross-section of roots, secondary anatomical cross-section of roots (cambium activity, felogen activity), adventive roots formation (with green and mature shoots)Shoot: primary anatomical cross-section of shoot, secondary anatomical cross-section of shoot ( cambium activity, felogen activity).Inflorescence, flower, berry: origine and formation of inflorescence, flower origine and its formation, macrosporogenesis, microsporogenesis, flowering, pollination and fertilization, berry structure, seed structure. |
| 1. Teaching methods

 Teaching and research are conducted in the classrooms of the Faculty of Agriculture. Practical classes an research work: at the experimental field of Sremski Karlovci, using the contemporary techniques. |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | **Yes**/No | 20 | *Theoretical part of the exam/Oral part of the exam* | **Yes** | 40 |
| Test | Yes/No |  |  |
| Exercise attendance | **Yes**/No | 20 |
| *Term paper* | **Yes**/No | 20 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Ivan D. Kuljančić |  Vinogradarstvo-vinova loza ta božanska biljka | Prometej, Novi Sad | 2007/2008 |
|  | Marcus Keller | The science of grapevines-anatomy and physiology | Elsevier-Academic Press, San Diego | 2012. |
|  | Peter R. Dry, B.G. Coombe | Viticulture (Volume 1) | Resources, Adelaide | 2004. |
|  | Nebojša Marković, Aleksandar Nakalamić | Opšte vinogradarstvo | Poljoprivredni fakultet Zemun i Zadužbina manastira Hilandara | 2009. |

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| Znak univerziteta | UNIVERSITY OF NOVI SADFACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Fruit growing and viticulture MASTER ACADEMIC STUDIES (*Fruit and vine growing)*  |
| Table 5.2 Course specification |