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| Course: | CONTROL OF SOIL FERTILITY  |
| Course id: 3OРT5И06 |
| Number of ECTS: 6 |
| Teacher: | Prof. dr Darinka M. Bogdanović, mr Ranko R. Čabilovski |
| Course status | ELECTIVE |
| Number of active teaching classes (weekly) |
| Lectures:2 | Practical classes:2 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None/navesti ako ima |
| 1. Educational goal

The acquisition of basic knowledge of soil fertility and fertilizer application. |
| 1. Educational outcomes

The student is qualified for further education through master's and PhD studies. Students will also be able apply the acquired knowledge, about soil fertility and fertilizer application, in agricultural practice.  |
| 1. Course content

***Theoretical instruction***Soil as a medium on which agricultural production takes place. Soil fertility as a prerequisite for intensive plant production. The system of soil fertility control. The fertilization based on system of soil fertility control. Principles of fertilization in intensive plant production. Application of fertilizer in crop production. Application of fertilizer in vegetable production (in the open field and protected area). Application of fertilizer in the production of flowers. Fertilization of green areas.***Practical instruction***Taking georeferenced soil samples in order to monitor the changes in soil fertility and the formation of soil information system- Fertilization recommendation plan (the amount of fertilizer, form and ration of nutrinnts in fertilizers, time and method of) within the soil information system- Calculation of amount of fertilizers for fertigation in the intensive plant production (in the furrows, spraying, artificial rain, drop by drop)- Fertilization recommendation plan for the fertilization of individual plant species.***Field exercises:***Visit the experimental field of Institute of field and vegetable crops. . Visit the factory of mineral fertilizers. |
| 1. Teaching methods

Lectures and Practical classes |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes | 0 | *Oral part of the exam* | Yes | 30-70 |
| Tests | Yes | 30+30=60 |  |
| Exercise attendance | Yes | 0 |
| Colloquium | Yes/No | 6-10 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Ubavić, M., Bogdanović, D.: | Agrohemija | Poljoprivredni fakultet, Novi Sad | 2001. |
|  | Jakovljević, M., Pantović, M. | Hemija zemljišta i vode. | Poljoprivredni fakultet, Zemun, Beograd | 1991. |
|  | Ubavić, M., Bogdanović, D. | Praktikum iz agrohemija | Poljoprivredni fakultet, Novi Sad | 1995. |
|  | Westerman R.L. | Soil testing and plant analysis, SSSA Book series 3 | Madison, USA,  | 1990 |

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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 STUDIES: Field and vegetable crops |
| Table 5.2 Course specification |