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| Course: | *PRODUCTION AND APPLICATION OF BIOPREPARATES* |
| Course id:3МЗИ1И08 |
| Number of ECTS:6 |
| Teacher: | Ass. Prof. Simonida Djuric, PhD |
| 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 |
| 1. Educational goal

Introduce students with microorganisms that improve the supply of plant nutrient elements and promote the growth and development of plants. |
| 1. Educational outcomes

Acquiring knowledge about the possibilities of application of microorganisms in plant production. |
| 1. Course content

Lectures:Microbial preparations in agricultural production. Biofertilizers. Plan growth promoting microorganisms (PGP). Microorganisms as a biocontrol agents. Production of microbial preparations: isolation, pure culture process, investigation of efficiency in controlled and productive conditions, production, packing, transport and application. Results of biofertilizers and biostimulators application in productive conditions under the field, vegetable and fruit crops. Results of microorganisms – antagonist apolication.Practical classes:Isolation, growth and identification of Free and symbiotic N-fixing bacteria, P-mineralisers microorganisms and mycorrhiza fungi from soil. Isolation, growth and determination of rhizospheric microorganisms – plant growth promoters. Isolation and determination of microorganisms antagonists. |
| 1. Teaching methods

Lectures and Practical classes, Consultations if needed. |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes | 5 | *Oral part of the exam* | Yes | 50 |
| Test | Yes | 30 |  |
| Exercise attendance | Yes | 10 |
| Term paper | Yes | 5 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Mahendra Rai | Handbook of Microbial Biofertilizers | CRC Press, Taylor &Francis Group | 2006 |

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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: SOIL SCIENCE AND PLANT NUTRITION |
| Table 5.2 Course specification |