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| Course: | | **Оperations Research Methods in Agriculture** | | | | | | | | |
| Course id: | |
| Number of ECTS: 6 | |
| Teacher: | | **Bojan M. Srdjevic (Teacher) / Bosko D. Blagojevic (Assistant)** | | | | | | | | |
| 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   Acquiring base knowledge on operations research methods and methodologies for working in agricultural engineering | | | | | | | | | | |
| 1. Educational outcomes   Skills in the field of optimization of resources allocation to fulfill requirements imposed to professional career of agricultural engineer | | | | | | | | | | |
| 1. Course content   *Theory*  Introduction. Definitions. Classes of the operations research methods. Modeling and solving optimization problems. Standard techniques in operations research. Advanced methods.  *Practice*  Base definitions and classifications. Examples. Classes of methods. Solving optimization problems. Examples of applications (standard and advanced methods) | | | | | | | | | | |
| 1. Teaching methods   Lectures, Practical classes, Consultations | | | | | | | | | | |
| Knowledge evaluation (maximum 100 points) | | | | | | | | | | |
| Pre-examination obligations | | | Mandatory | Points | | Final exam (izabrati) | | Mandatory | | Points |
| Lecture attendance | | | Yes | 10 | | *Oral part of the exam* | | Yes | | 30 |
| Seminar paper | | | Yes | 50 | |  | | | | |
| Exercise attendance | | | Yes | 10 | |
|  | | |  |  | |
| Literature | | | | | | | | | | |
| Ord. | Author | | Title | | | Publisher | | | | Year |
|  | J. Reeb, S. Leavengood | | Using the simplex method to solve linear programming maximization problems, Oregon State University, Ext service | | | on-line http://extension.oregonstate.edu/catalog/pdf/em/em8720-e.pdf | | | | 2013 |
| 2. | Srdjevic B., | | Systems Analysis Methods in Engineering With Extensions in Environmental Engineering | | | Federal University of Bahia, Salvador, Brazil Lecture notes (in English) | | | | 2003 |
| 3. |  | |  | | | INTERNET SOURCES | | | |  |

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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  UNDERGRADUATE ACADEMIC STUDIES *WATER MANAGEMENT* |
| Table 5.2 Course specification | | |