Course Unit Descriptor

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| **Study Programme:** Animal Production | | |
| **Course Unit Title:** Animal breeding software | | |
| **Course Unit Code:** 19MST1I16 | | |
| **Name of Lecturer(s):** Full professor Snežana Trivunović, full professor Ivan Radović, assistant professor Ljuba Štrbac, teaching assistant Momčilo Šaran, teaching assistant Mile Mirkov | | |
| **Type and Level of Studies:** Master academic studies | | |
| **Course Status (compulsory/elective):** Elective | | |
| **Semester (winter/summer):** Winter | | |
| **Language of instruction:** Serbian, but individual consultations and materials are offered to incoming students in English | | |
| **Mode of course unit delivery (face-to-face/distance learning):** face-to-face | | |
| **Number of ECTS Allocated:** 6 | | |
| **Prerequisites:** None | | |
| **Course Aims:**<br>Education of students about computer programs that are applied during the implementation of breeding programs in animal husbandry. Training students for direct work with programs for herd book records in animal husbandry. | | |
| **Learning Outcomes:**<br>A student who has acquired the theoretical and practical knowledge necessary to analyze and solve practical problems in the field of keeping family records, forming a database and conducting quantitative genetic analyses. A student who is familiar with scientific research work in the field of domestic animal breeding through the use and analysis of literature, collecting and interpreting data, making valid judgments for solving certain problems in this field. | | |
| **Syllabus:**<br>*Theory*<br>Database. Records in cattle breeding. Records in pig farming. Records in sheep breeding. Records in goat farming. Records in horse breeding. Records in poultry farming.<br>*Practice*<br>Programs for spreadsheet calculations. Formation of the database. Software for keeping registers in cattle breeding. Software for keeping registers in pig farming. Software for keeping registers for sheep breeding. Software for keeping registers in the goat industry. Software for keeping registry records in horse breeding. Software for keeping records in the poultry industry. | | |
| **Required Reading:**<br>1. Breeding programs for farm animals: . https://www.stocarstvo.edu.rs/centar<br>2. Meyer K. (2007): WOMBAT – A tool for mixed model analyses in quantitative genetics by REML, J. Zhejiang Uni. SCIENCE B, 8: 815–821. | | |
| **Weekly Contact Hours:** | **Lectures: 2** | **Practical work: 2** |
| **Teaching Methods:**<br>The theoretical part of the class is conducted with the use of presentations prepared so that students have a visual representation of the teaching units. Practical teaching takes place in the laboratory for the application of computers and software in the field of implementing breeding programs. | | |
| **Knowledge Assessment (maximum of 100 points):** | | |

| **Pre-exam obligations** | points | **Final exam** | points |
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| Active class participation | 10 | written exam | 50 |
| Practical work | 40 | oral exam | - |
| Preliminary exam(s) | | ……. | |
| Seminar(s) | | | |
| The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc. | | | |