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| Course: Animal Production | *Theory of Animal Breeding and Behavior* |
| Course id:3MCT1I21 |
| Number of ECTS: 6 |
| Teacher: | Snežana Trivunović, PhD, associate professorDragomir Lukač, MSc, teaching assistant |
| Course status | Elective |
| Number of active teaching classes (weekly) |
| Lectures: 30 | Practical classes: 30 | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None |
| 1. Educational goal

Education and training students in the field of breeding and behavior of all kinds of farm animals, fish, wildlife, furry animals, bees and ornamental animals. After passing the exam, students should be able to easily, efficiently competently implement the principles of animals breeding in a practical and scientific research. |
| 1. Educational outcomes

A student who has significantly broadened and deepened knowledge in the field of breeding and animal behavior in relation to the knowledge acquired at the undergraduate level and that is the basis for originality in developing and / or applying ideas and knowledge necessary for understanding the scientific basis, often in the context of research in the field of basic and alternative branches of livestock production. After passing the exam, the student has the ability for independent and group research with the ability to plan and conduct experiments, as well as the ability of scientifically based interpretation of experimental data. |
| 1. Course content

*Lectures*The similarity between relatives, defining properties. Genetic parameters, the theoretical aspect. Genetic and economic progress of properties. Methods of selection and genetic improvement. Model estimates of breeding values and genetic ranking. Optimization program, genetic and economic aspects. Animal behavior in different social environments, age and physiological age. *Practical classes*Computer analysis of the similarity between relatives and genetic parameters. Model estimates of breeding values, genetic and economic progress. Animal behavior as a function of farm design. |
| 1. Teaching methods

The theoretical part of the training is conducted with the use of films and presentations that have been prepared so that students have a visual representation of lessons. Practical classes are conducted with the use of software in the field of the relationship of breeding and animal behavior. |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam | Mandatory | Points |
| Lecture attendance | Yes | 10 | *Written part of the exam-tasks and theory* | Yes | 20 |
| Test | Yes | 10 | *Oral part of the exam* | Yes | 30 |
| Exercise attendance | Yes | 20 |  |
| Term paper | Yes | 20 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Vidović V. | Principi I metodi oplemenjivanja životinja | Poljoprivredni fakultet, Novi Sad. | 2011 |
|  | Vidović V. | Teorija oplemenjivanja životinja | Poljoprivredni fakultet, Novi Sad. | 2009 |
|  | Renaville R., Burny A. | Biotehnology in Animal Husbandry | Kluwer Academic, Netherlands | 2001 |
|  | Griffiths A.J.F. | Modern Genetics Analysis | W.H. Freeman & Co (Sd); Bk&CD-Rom edition. | 1998 |
|  | Bourdon R. M. | Understanding Animal Breeding | Prentice-Hall | 2000 |

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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 *Animal Production* |
| Table 5.2 Course specification |