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| Course: | *Biology* |
| Course id: 3OСT1O02 |
| Number of ECTS: 6 |
| Teacher: | **Aleksandar Jurišić, PhD., Aleksandra Petrović, MSc** |
| Course status | Mandatory |
| 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

Introduction to the basic principles of systematics and systematic categories, the basics of organization, morphology and animal anatomy and comparative review of the system of organs of certain groups. The study of the interaction between organisms and the environment in agricultural production, ephasizing anthropogenic factors. Special emphasize is given to species - agents of diseases, parasites and pests and proper application of preventive and control measures. Studying the biology of beneficial species and the importance of biological control in agriculture. |
| 1. Educational outcomes

The student is qualified for further education through master's and PhD studies. Acquiring fundamental knowledge for the study of other fundamental and applied scientific disciplines - physiology,nutrition, selection and breeding, reproduction, veterinary and animal hygiene ... |
| 1. Course content

*Lectures*: The concept and development of zoology and agricultural zoology. The systematic and biology of animals with an overview of animal life cycles, with special emphasis on species that are important for agricultural production (Protozoa, Plathelminthes, Nematodes, Crustacea, Acarina, Insecta, Pisces, Amphibia, Reptilia, Aves, Mammalia). Cells, tissues, organs and organ systems through a comparative examination of the digestive, respiratory, circulatory, nervous, excretory and sexual systems.*Exercise*: The microscope and microscopic techniques, infuzum, Trematodes, Cestodes, Nematodes - parasites of plants and animals, Cladocera and Copepoda, Acarina - parasites of plants, animals and humans, storage pests, Insecta – basic morphology and anatomy, Heterometabola, Anoplura, Mallophaga, Heteroptera, Aphaniptera, Diptera - Nematocera, Brachicera, Coleoptera, Lepidoptera, Aves - Corvidae, Mammalia - rodents (Muridae, Cricetidae, Sciuridae, Spalacidae). |
| 1. Teaching methods

Lectures – oral, textual and illustrative / demonstrative methods.Practical classes - management of students’ individual work and demonstrative / illustrative methods |
| 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 | 30 |
| Test | Yes | 30 |  |
| Exercise attendance | Yes | 5 |
| Colloquium | Yes | 30 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Ratajac R. | Zoologija za studente poljoprivrednog fakulteta | Univerzitet u Novom Sadu, Prirodno-matematički fakultet, Novi Sad | 1995 |
|  | Đukić, N., Horvatović, A., Kataranovski, D., Maletin, S., Matavulj, M., Pujin, V., Sekulić, R. | Poljoprivredna zoologija sa ekologijom, I: Filozofija prirode, Opšta zoologija i Sistematika životinja | Poljoprivredni fakultet, Novi Sad | 2005 |
|  | Rajković, D., Kostić, D. | Praktikum iz poljoprivredne zoologije | Univerzitet u Novom Sadu, Prirodno-matematički fakultet, Institut za biologiju, Novi Sad | 1995 |
|  | Đukić, N., Maletin, S. | Poljoprivredna zoologija sa ekologijom II, Zooekologija | Poljoprivredni fakultet, Novi Sad | 1998 |
|  | Poleksić, V. i sar | Zoologija | Poljoprivredni fakultet, Univerzitet u Beogradu | 2003 |

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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 *ANIMAL SCIENCE* |
| Table 5.2 Course specification |