|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Course: | | PHYSIOLOGY OF NUTRITION OF DOMESTIC ANIMALS AND GAME | | | | | | | | | |
| Course ID: 3МSТ1I23 | |
| Number of ECTS: 6 | |
| Teacher: | | Prof. dr Aleksandar Božić | | | | | | | | | |
| 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   Clear understanding of the physiological characteristics of domestic animals and wildlife in part covered by the subject content. Acquiring knowledge for successful acquisition of professional teaching subjects crucial for the development of graduate - master work. | | | | | | | | | | | |
| 1. Educational outcomes   Students achieve on average 75% of success in completing the pre-examination and exams, which enables them easier to understand professional teaching subjects in the further studies. | | | | | | | | | | | |
| 1. Course content   Theoretical lessons:  Dynamics and kinetics of enzyme activity, modes of activation and inhibition. Digestion and resorption of food. The functioning of the portal system and lymph in bone, resorption ways. The metabolism of organic nutrients, minerals and water. Modern techniques of physiology in studies of metabolic processes in domestic animals and wildlife. Regulation of metabolic processes and acid-base balance, the importance of the relationship neural and humoral correlations. The kidneys and lungs in maintaining homeostasis. Dependence of intensity of metabolic processes by various factors. Co-enzyme functions of vitamins, able to adapt to the body in starvation conditions. Energy metabolism. Nervous and chemical regulators of metabolic processes. Research methodology in experiments related to finding and interpretation of physiological parameters.  Practical lessons:  Physiological parameters in nutritional and metabolic experiments. Primary and secondary analyzes of blood and secretions in the consideration of metabolic events. The goals of contemporary research in physiology and recent developments. | | | | | | | | | | | |
| 1. Teaching methods   Verbal, interactive methods (CD presentations, quiz), individual and group laboratory work, microscopy | | | | | | | | | | | |
| Knowledge evaluation (maximum 100 points) | | | | | | | | | | | |
| Pre-examination obligations | | | Mandatory | Points | | Final exam | | | Mandatory | | Points |
| Lecture attendance | | | Yes | 5 | | *Written part of the exam-tasks and theory* | | | Yes | | 30 |
| *Oral part of the exam - theory* | | | Yes | | 30 |
| Exercise attendance | | | Yes | 5 | |
| Seminar work | | | Yes | 30 | |
| Literature | | | | | | | | | | | |
| Ord. | Author | | Title | | | | Publisher | | | | Year |
|  | Stojić, V. | | Veterinarska fiziologija | | | | Naučna knjiga, Beograd. | | | | 1996;1999;2004 |
|  | Sjaastad, Q.V., Hove, K., Sand, O. | | Physiology of domestic animals | | | | Scаndinavian veterinary Press. | | | | 2003 |
|  | Sherwood, Lauralee | | Human physiology– from cells to sistems | | | | Thomson Larc, USA | | | | 2004 |
|  | Sherwood, Lauralee, Klandorf, H., Yancey, P.H | | Animal physiology – from genes to organisms | | | | Thomson Larc, USA | | | | 2005 |
|  |  | | The scientific and professional journals, useful web links. | | | |  | | | |  |

|  |  |  |
| --- | --- | --- |
| Znak univerziteta | UNIVERSITY OF NOVI SAD  FACULTY OF AGRICULTURE 21000 NOVI SAD, TRG DOSITEJA OBRADOVIĆA 8 | Znak fakulteta2 |
| Study Programme Accreditation  MASTER ACADEMIC STUDIES ANIMAL SCIENCE |
| Table 5.2 Course specification | | |