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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* |

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| Course: | *Pig production technology* |
| Course id: 3OST6O25 |
| Number of ECTS: 6 |
| Teacher: | PhD Ivan Radovic, Associate Professor |
| Co-worker | Ivan Žarković |
| Course status | Mandatory |
| Number of active teaching classes (weekly) |
| Lectures: | Practical classes: | Other teaching types: | Study research work: | Other classes: |
| Precondition courses | None/navesti ako ima |
| 1. **Educational goal**

The aim of the course is the education and training of students for immediate work in pig production, while preserving the environment (sustainable development) in under intensive production. In addition, the student must be trained in the use of new bioutehnologija in livestock production, as well as to gain a clear insight about the impact of livestock production on the environment, and to know the ways to prevent the harmful effects of livestock production on the environment (sustainable agriculture). |
| 1. **Educational outcomes**

The outcome of the process of studying the formation of professionals with academic education which has significantly broadened and deepened knowledge in relation to the knowledge acquired in high school, as well as the knowledge necessary for understanding the scientific basis of the field of livestock-pig production.The knowledge gained students completed undergraduate studies provides expertise to work in agricultural work to the organization: co-operatives, co-operatives, entrepreneurial firms and their own farms engaged in livestock production, followed by counseling and vocational secondary school education. |
| 1. **Course content**

**Theoretical teaching**The importance of pig - socio-economic and biological. Characteristics of pig production industry. Directions of production. Organisation of the pig. Cycles in pig production. Condition pig with us. Types and breeds of pigs. The founders and relatives. Bows and skimmed. Transitional. Fleshy. Extremely meaty. Breeding, selection and breeding. The breeding objective. The choice of race. Constitution and fitness. Characteristics of growth. Inheritance of qualitative and quantitative traits. Methods of breeding pigs (in pure blood, crossing, hybridization). The procedures selected by pigs. Evaluation of the breeding values. The records in the pig. Analysis of the data registry records and production results farm. The methodology of execution and processing of the results of the experiment.Production technology - technology variants (the extensive, intensive). Accommodation and keeping pigs (swine significant features for storing, ethology, behavior of pigs, welfare, facilities for Shelter pigs, farm equipment and facilities, planning and construction of the farm). Technology odgajivajnja calves. Reproduction pigs (full zeal and reproduction, mating and VO, gestation, farrowing and piglets suckling, weaning and education, duration of use sows). Technology nutrition and feeding pigs (characteristics of the digestive tract, equipment and technique of feeding categories, food preparation, ensiled maize in the diet, green and juicy nutrients, the budget amount required nutrients supply of pigs). Management in pork production. The quality of pigs and pork - methods for carcass quality (dressing percentage, conformation, linear dimensions, cross-section of MLD, dissection). Assessment of meatiness in the slaughter line (methods, equipment). Quality rating in live mode (using the apparatus for ultrasonic measurement). Methods for assessing the quality of the meat (chemical composition, color, texture, softness, pH value, the index of the quality of meat). Meat altered quality (pale, soft, exudative and dark, firm, dry meat). Factors affecting carcass quality and meat (a hereditary basis, the age and weight of fattening pigs, nutrition, sex and castration process in a slaughterhouse).**Practical classes**Build the body. Categories pigs. Calculation of gain, feed intake and fertility indicators. Pig breeds. Choosing a pig at the exterior, the origin, production characteristics (performance and combined test) and descendants (progeny test). Identification of animals. Records (organization, forms, method of keeping the books and patterns, the use of automated data processing). Selection festival. Example of project task. Calculation of the accommodation capacity of the farm. Technical and technological solutions for accommodation of certain categories of pigs. Characteristic of the mixture for feeding of certain categories of pigs. Getting to know the technique of working with ultrazvučnm apparatus, determining linear measures, planimetrisanje surface MLD. Assessment of meatiness in the slaughter line. Programs To predict two field trips and visiting farms and slaughterhouses in order to introduce technology and work organization. |
| 1. Teaching methods

 Lectures, Practice/ Practical classes, Consultations |
| Knowledge evaluation (maximum 100 points) |
| Pre-examination obligations | Mandatory | Points | Final exam (izabrati) | Mandatory | Points |
| Lecture attendance | Yes | 5 | Written part of the exam-tasks | Yes | 20 |
| Exercise attendance | Yes | 5 | Oral part of the exam | Yes | 30 |
| Field exercises | Yes | 20 |
| Term paper | Yes | 20 |
| Literature  |
| Ord. | Author | Title | Publisher | Year |
|  | Teodorović, M .; Radovic, I . | Pig production | Textbook. Faculty of Agriculture, University of Novi Sad, | 2004. |
|  | Uremović, Mary; Uremović, Z . | Pig production | Textbook. Faculty of Agriculture, University of Zagreb, | 1997. |
|  | Vidovic, V .; Višljić, V .; Jigović, D .; Punoš Desanka Vukovic, N . | Practical pig production | Association of producers and pig meat Requests - Novi Sad | 2011. |
|  | Kralik, Gordana; Kušec, G .; Kralik, G .; Margeta, V . | Pig - Biological and Zootechnical Principles | Faculty of Agriculture, University of Josip Juraj Strossmayer in Osijek. | 2007. |
|  | McGlone, J.; Pond, W. | Pig Production | Biological Principles and Applications. Thomson Learnig. USA. | 2003. |
|  | Scientific journals, proceedings of scientific papers of national and international importance in the field of pig breeding. |