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| **STUDY PROGRAMME:** | **Professional Undergraduate Study Programme *Agriculture*** Specific field of study: Zootechnics  |
| **Course:** | **SHEEP AND GOAT RAISING** |
| **Course code:** 273306**Course status**: compulsory  | **Semester: IV** | **ECTS credits: 6** |
| **Course holder:**  | **Tatjana Jelen,** Ph.D., professor of professional studies |
| **Course associates:**  | **Goran Mikec**, M.Eng.Agr., assistant |
| **Modes of delivery:** | **Number of hours**  |
| Lectures | 45 |
| Excersises, | 20 |
| Seminars | 10 |
| Practical training | 15 |

**COURSE OBJECTIVES:** to train students for independent organization of sheep and goat production.

**COURSE CONTENT**

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| **Course units**  | **Modes of delivery:** |
| **L, E, S, PT** |
| 1.
 | The economic importance of sheep farming, the situation in the world and in the Republic of Croatia, the origin and historical development of sheep, original forms and relatives of sheep.  | 1  |   |   | P  |
|  | Anatomical features and biological features of sheep, domestication changes  |   | 1  |   | P  |
|  | Sheep farming systems and production directions  |   | 1  |   | P, TN  |
|  | Sheep breeds and production types  | 2  |   |   | P  |
|  | Selection in sheep breeding, testing  | 2  |   |   | P  |
|  | Breeding methods, inheritance, marking of sheep  |   | 1  |   | PR  |
|  | Production and selection records  |   | 1  |   | TN  |
|  | Reproduction in sheep breeding  | 2  |   |   | P  |
|  | Feeding in sheep breeding, selection and characteristics of feed, nutritional needs of individual categories, meals,  | 3  | 2  |   | P i L PR  |
|  | Production and knowledge of sheep's milk  | 2  | 1  |   | P i L, TN  |
|  | Meat production and meat grade, fattening of lambs  | 2  | 1  |   | P i L  |
|  | Production and knowledge of wool.  | 2  |   |   | P-PR  |
|  | General and specific disease protection measures, disease knowledge, well-being  | 2  |   |   | P  |
|  | Sheep Farms and Equipment  | 2  | 1  |   | P, TN  |
|  | **\*\*** Production technology of individual categories of sheep; profitability of production – calculations of examples from practice  | 5  |  | **4\*\***  | P  |
|  | **COLLOQUIUM 1** |   | **1**  |   | P  |
|  | TEACHING UNITS (GOAT FARMING)  | Forms of teaching \*\*\*  |  |
|  |   | L  | E  | S  |   |
|  | Economic importance of the state of goat farming in the world and in the Republic of Croatia  | 1  |   |   | P  |
|  | Origin and historical development; Anatomical features and biological features of goats  | 1  |   |   | P  |
|  | Goat breeds and production types  | 2  |   |   | P  |
|  | Selection in goats, Testing  | 1  |   |   | P  |
|  | Breeding methods, inheritance  |   | 1  |   | P  |
|  | Marking goats  |   | 1  |   | P  |
|  | Production and selection records  |   | 1  |   | TN  |
|  | Reproduction in goats  | 2  |   |   | P  |
|  | Feeding, selection and characteristics of feed for goats, nutritional needs of individual categories, rations  | 2  | 2  |   | P PR  |
|  | Production and knowledge of goat's milk  | 1  | 1  |   | P i L, TN  |
|  | Production and quality assessment of meat, fattening kids  | 1  | 1  |   | P i L  |
|  | Sackcloth production  | 1  |   |   | P  |
|  | General and specific disease protection measures, disease knowledge, well-being  | 2  |   |   | P  |
|  | Housing and equipment in goat farming  | 1  | 2  |   | PR, TN |
|  | **\*\*** Production technology of individual categories of goats. Profitability of production – calculations of examples from practice  | 5  |  | **4\*\***  | P  |
|  | **COLLOQUIUM 2** |   | **1**  |   | P  |
|  | ASSIGNMENT\*\*  |   |  | **2\*\***  |   |
|  |  | **PT** |
|  | Practical training and integrated project assignment: One part of the practical training (8 hours) is the participation of students in performing simpler jobs and tasks in the barns at the University farm related to the field of zootechnical procedures and meeting the welfare of animals, which are determined by the teacher \* The second part of the practical training (7 hours) is completed within an integrated project assignment - students divided into groups do the project assignment outside the University according to the given topic |  **15**   | TN i PR |
| **In total** | **45+35+10+15** |

L=Lectures, E=Excersises, S=Seminars, PT=Practical training

Venue P = Lecture Hall, L = Laboratory, TN = Field Work, PR – Sheep and Goat Practicum KUAS

**Learning outcomes (LO)**

LO 1. Plan the way/system of sheep/goat breeding for a particular breed, i.e. The use of her

LO 2. Recommend an appropriate way of conducting selection and reproduction

LO 3. Choose breeding and technological procedures for successful sheep/goat production

LO 4. Plan welfare measures and preventive and curative health care for sheep/goats

LO 5. Design a feeding plan for sheep/goats by category

LO 6. Assess production indicators and recommend improvements in sheep/goat farming using a practical example

Course holder:

Tatjana Jelen, Ph.D., professor of professional studies

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