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| **STUDY PROGRAMME:** | **Professional Graduate Study Programme *Agriculture* - Sustainable and Organic Agriculture** | |
| **Course:** | **Selected chapters in animal nutrition** | |
| **Course code:** 141711  **Course status**: compulsory | **Semester:** II | **ECTS credits: 6** |
| **Course holder:** | **Dejan Marenčić**, Ph.D., professor of professional studies | |
| **Modes of delivery:** | **Number of hours** | |
| Lectures | 40 | |
| Excersises | 20 | |

**COURSE OBJECTIVES:** enable the students to achive successful livestock production with adequate livestock feeding on ecological and/or sustainable manner

**COURSE CONTENT**

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|  |  | **Modes of delivery:** | **Places of delivery** |
|  | **Course units** | **L, E** |
|  | Factors that affecting on livestock feed intake | L (3) | Lecture room |
|  | Determining the nutritional requirements of livestock | L (3) | Lecture room |
|  | Nutritional errors (energy, protein, mineral and vitamin deficit or suficit) and its influence on productions, sensory properties, health and environmental pollution | L (6) | Lecture room |
|  | Anti-nutritional substances in fodder and its influence on production, longevity and health of livestock | L (3) | Lecture room |
|  | Applied nutrition and its influence on productivity, fertility and livestock use | L (25) | Lecture room |
|  | Fodder conservation on farm - free of supplements (aditivs) use | E (3) | Lecture room and Practicum room |
|  | Designing ecological and sustainable meals and their balancing according by livestock requirement | E (12) | Lecture room |
|  | The most used feeds in daily meals, with an emphasis on some limiting factors regarding their representation (proportion/amount) in daily meals, considering anti-nutritional substances that are present in some fodders.  *Individual and group work and its presentation and evaluation in front of the student department* | E (5) | Lecture room and Practicum room |
| **In total** | | L (40); E (20); |  |

**L=Lectures, E=Excersises**

**LEARNING OUTCOMES (LO)**

LO 1. To design a procedure for making an ecologically sustainable meal

LO 2. To determine nutritional errors and anti-nutritional substances and describe their influence on production, livestock health and environmental pollution

LO 3. To organize conservation and storage of feed on the farm without the use of additives

LO 4. To paln a meal-fodder mixture that meets the needs of domestic animals in organic farming, without harmful effects on the health of people and animals and with as little environmental pollution as possible.

Course holder:

Dejan Marenčić, Ph.D., professor of professional studies

Križevci, July 2024