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| **STUDY PROGRAMME:** | **Professional Undergraduate Study Programme *Agriculture***  Specific field of study: Zootechnics | |
| **Course:** | **Poultry raising** | |
| **Course code:** 273301  **Course status**: compulsory | **Semester: III** | **ECTS credits: 5,5** |
| **Course holder:** | **Marijana Vrbančić Igrić,** M.Eng.Agr, senior lecturer | |
| **Course associates:** | **Goran Mikec,** M.Eng.Agr, assistant | |
| **Modes of delivery:** | **Number of hours** | |
| **Lectures** | 30 | |
| **Excersises,** | 15 | |
| **Seminars** | 15 | |
| **Practical training** | 23 | |

**Course objectives:** To train students to independently organize the production of eggs and poultry meat.

**Course content**

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|  |  | **Modes of delivery:** | | | **Places of delivery** |
|  | **Course units** | **L, E, S** | | |
|  | The importance of poultry farming and the state of poultry farming in the world and the Republic of Croatia | 1 |  |  | Classroom |
|  | Systemic and zoological features of poultry | 2 |  |  | Classroom |
|  | Selection and breeding methods in poultry farming   * The choice of a head for breeding. Marking of poultry and registry accounting   Breeding methods: breeding in pure blood, inbreeding, line breeding, crossing for the purpose of blending and creating new breeds, industrial crossing and hybridization. Artificial insemination of poultry. | 4 |  |  | Classroom |
|  | Chickens   * Origin and domestication * Breed * Commercial Line Hybrids * Production of eggs for hatching and consumption * Restraint systems * Breeding chickens   Fattening chickens | 6 | 2 | 3 | Classroom  internship |
|  | Turkey   * Origin and domestication * Breed * Commercial Line Hybrids * Egg production for hatching * Restraint systems * Breeding turkeys   Turkey fattening | 5 |  | 1 | Classroom |
|  | Geese   * Origin and domestication * Breed * Egg production for hatching * Restraint systems * Breeding goslings   Fattening goslings | 4 |  | 1 | Classroom |
|  | Ducks   * Origin and domestication * Breeds for eggs, meat and combined characteristics * Restraint systems * Duckling breeding   Duckling fattening | 4 |  | 1 | Classroom |
|  | Poultry feeding   * Types of poultry feed and their characteristics * Food preparation and feeding technique * Compound feed in poultry farming * Feeding young poultry   Feeding adult poultry | 3 |  | 7 | Classroom |
|  | Poultry health care   * Preventive measures   Disinfectants and disinfesters | 1 |  |  | Classroom |
|  | Structure and composition of the egg |  | 2 |  | Classroom  Internship |
|  | Calculation of the scope of ventilation and lighting in poultry houses |  | 2 |  | Classroom  Internship |
|  | Reproduction of poultry   * Selection of eggs for planting * Natural and artificial lying * Incubators, incubators, incubating eggs   Natural and artificial poultry farming |  | 3 |  | Internship |
|  | Acquaintance with poultry diseases caused by improper feeding and keeping: Crooked toes, Cannibalism, Avitaminosis. |  | 2 |  | Classroom |
|  | **Field work**:  Visiting modern facilities and getting acquainted with newer technologies for the production of eggs for hatching, breeding offspring, production of table eggs with a sorting plant and getting acquainted with the technologies of intensive fattening of chickens |  | 4 |  | Outside the University of Applied Sciences |
|  | Specific species: pigeons, guinea fowls, quails, ostriches, emus. |  |  | 2 | Classroom |
| **In total** | | **30+15+15** | | |  |

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| **Practical training, project assignment, field teaching** | | | |
| 16. | Project assignment | 8 | practicum |
| 16.1. | Familiarity with poultry breeds.  Acquaintance with the necessary equipment in poultry production.  Determination of phenotypic characteristics of poultry. | 5 | practicum |
| 16.2. | Poultry feeding.  Types of poultry feed and feed mixtures in poultry farming.  Feeding of young poultry.  Feeding of adult poultry. | 5 | practicum |
| 16.3. | Breeding of poultry.  Egg incubation.  Poultry meat and egg production. | 5 | practicum |
| **IN TOTAL** | | **23** |  |

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

**Learning outcomes (LO)**

LO 1. Present breeds and hybrids of all types of poultry and their exterior and production characteristics

LO 2 . Recommend and compare keeping methods and feeding for all types of poultry

LO 3. Propose the implementation of breeding and selection work in poultry production

LO 4. Plan the process of incubating chicken eggs

LO 5. Organize successful egg and poultry meat production with an emphasis on poultry welfare measures

Course holder:

Marijana Vrbančić Igrić, M.Eng.Agr., senior lecturer

Križevci, July 2024