**NEAR EAST UNIVERSITY**
**Faculty of Veterinary Medicine Course Curriculum**

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| **1.** | **Course Name** | ANIMAL SCIENCE I |
| **2.** | **Course Code** | VTE315 |
| **3.** | **Course Type** | Compulsory |
| **4.** | **Course Level** | Undergraduate |
| **5.** | **Year** | 3 |
| **6.** | **Semester** | Fall, 5VET |
| **7.** | **ECTS Credits** | 3 |
| **8.** | **National credits** | 2 |
| **9.** | **Theoretical Course Hours (hours/week)** | 1h/week |
| **10.** | **Applied Course Hours (hours/week)** | 2h/week |
| **11.** | **Course Prerequisites** | None |
| **12.** | **Other Topics Recommended for the Course** | None |
| **13.** | **Course Language** | English |
| **14.** | **Course Format** | Face-to-face |
| **15.** | **Course Coordinator** | Prof. Dr. Dilek ARSOY |
| **16.** | **Other Lecturers that Give the Course** | - |
| **17.** | **Communication Details of the Coordinator** | Near East University, Faculty of Veterinary Medicine<br>Department of Animal Scienece, Nicosia / TRNC<br>E-mail: dilek.arsoy@neu.edu.tr<br>darsoy@gmail.com |
| **18.** | **Course Web Address** | https://uzem.neu.edu.tr/course/view.php?id=18971 |

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| **19.** | **Course Aim** | It sheds light on the origin, evolution and development of farm animals. Teaches the principles of raising farm animals with scientific methods. Examines the efficiency and efficiency characteristics in accordance with the definition of healthy animals. It gives information on the general efficiency and genetic characteristics of animals. |
| **20.** | **Contribution of the Course to Occupational Development** | The ability of veterinarians to provide diagnosis and treatment services and the supply of healthy and quality food for humans depend on the knowledge of healthy and safe animal production. |

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| **21.** | **Course Learning Outcomes** | **LO1** | Will be able to understand related terms/terminology<br>Will be able to discuss the validity of related terms/terminology |
| | | **LO2** | Will be able to apply the related terms/terminology to real life situations/cases<br>Will be able to critically analyse the real-life applications of the related terms/terminology. |
| | | **LO3** | Will be able to develop/create new approaches<br>Will be able to independently carry out the work given<br>Will be able to work on the work given as a group |
| | | **LO4** | Will be able to synthesize different concepts and theories to create their own unique approaches. |
| | | **LO5** | Preparation for the presentation(s)<br>Will be able to evaluate their own work according to the given criteria |
| | | **LO6** | Will see the value of learning<br>Will be able to develop the aimed skills |

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| **22.** | **Course Content** | **WEEK** | **THEORETICAL COURSE CONTENT** | **APPLICATION CONTENT** |
| | | **1.** | General outlook on farming, its importance and history. History of farm animals, domestication and its effects, taxonomy and classification. | |
| | | **2.** | Evolutionary theories and the effect of evolution. Formation of species | Showing and discussing evolutionary changes |
| | | **3.** | Characteristics of farm animals, Morphological characteristics. Proportion and body condition score. | Examples and usage fields about characteristics.<br>Equine coat colour |
| | | **4.** | Anatomy and its importance in farming. Morphological and physiological changes. | Each student's practice homework related to body condition score and breeder selection criteria according to anatomical characteristics. |

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| | | **5.** | Explanation and importance of physiological characteristics | Each student's practice homework related to body condition score and breeder selection criteria according to anatomical characteristics and their presentations |
| | | **6.** | General reproduction and reproductive traits in farm animals | The importance of reproduction and fertility in practical agriculture |
| | | **7.** | Growth and growth periods, meat productivity, classification according to animal species. | Discussing what growth and development mean in livestock |
| | | **8.** | Midterm | |
| | | **9.** | Lactation and milk productivity specifications | Milking types, milking machines, milk hygiene, quality and composition of milk |
| | | **10.** | Constitution and behaviour, Conditioning and scoring, Environment and adaptation, Adaptation to the environment and acclimatization and the importance of species | Practical methods used in breeding. Castration, dehorning, tail cutting, teat removal video and demonstration in farm applications. |
| | | **11.** | The place and importance of poultry in livestock, the structure of modern poultry farming, obtaining modern hybrid genotype chickens, breeding chicken coops, production aims in breeding breeder hens. | Introduction to chicken breeds<br>Introduction to poultry housing types and equipment |
| | | **12.** | Storage of hatching eggs, embryo development, hatching, chick quality, factors affecting hatching results, economic efficiency. Care and management of breeder chicks/chickens and chickens, Forced moult in chickens. | Introduction to incubation conditions and methods |
| | | **13.** | Egg layer genotypes, laying hen pens, commercial egg layer chick/chicken and chickens care and management, economics of production | Egg layer chicken pens and equipment, definition of rearing methods |
| | | **14.** | Broiler genotypes, broiler pens, preparation of poultry pens for production, maintenance and management of broiler chickens, production economics | Introduction of broiler pens and equipment<br><br>Farm practice |

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| 23. | **Course Book, References and/or Other Resources** | 1. Hayvan Yetiştiriciliği Temel Bilgileri, Akçapınar,H, Özbeyaz C. Kariyer Basımevi 1999.<br>2. Genel zootekni Arıtürk,E. Ankara Univ.Vet.Fak Yayın no395 1983.<br>3. Fizyoloji, Bölükbaşı,F. Ankara Univ.Vet.Fak Yayın no 4131989.<br>4. Tier Züchtungs Lehre. Krausslich H, Verlag Eugen Ulmer Stuttgart,1994.<br>5. Biotechnology. Larkin,P., Csiro Cataloging in Pub Entry, Australia, 1994.<br>6. The laying hen: Systems of egg production. In: Welfare of laying hen. Perry GC. Oxfordshire UK. 2004<br>7. Poultry Genetics, Breeding and Biotechnology. Muir, W.M., Aggrey, S.E. CABI. 2003<br>8. Poultry Behaviour and Welfare. Appleby, M.C., Mench, J.A., Hughes, B.O.CABI. 2004<br>9. Tavuk Yetiştiriciliği. Aksoy FT, Şahin Matbaası, Ankara, 1999 |

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| 24. | **Evaluation** | **SEMESTER WORK** | **NUMBER** | **PERCENTAGE OF CONTRIBUTION** |
| | | Midterm Exam | 1 | 40 |
| | | Short Exam | | |
| | | Homework, Performance | 2 | 20 for final exam |
| | | End of Year Exam | 1 | 60 |
| | | Total | 4 | 100 |
| | | Evaluation Approaches | | |

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| 25. | **ECTS / Workload Table** | **Activity** | **NUMBER** | **Duration [Hours]** | **Total Workload [Hours]** |
| | | Theoretical Courses | 14 | 1 | 14 |
| | | Applied Courses | 14 | 2 | 28 |
| | | Extracurricular Lesson Study Time (Preparation, revising) | | | |
| | | Homework, Performance | 2 | 20 | 40 |
| | | Projects | | | |
| | | Field Studies | 1 | 6 | 6 |
| | | Midterm Exams | 1 | 1 | 1 |
| | | Other | | | |
| | | End Of Semester Exams | 1 | 1 | 1 |
| | | Total Workload | | | 90 |
| | | Total Workload / 30 hours | | | 90/30 |
| | | Course ECTS Credits | | | 3 |