

AFYON KOCATEPE UNIVERSITY

HEALTH SCIENCE INSTITUTE

DEPARTMENT OF LABORATORY ANIMALS (VETERINARY)

MASTER’S DEGREE (WITHOUT THESIS) PROGRAMME

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| **I. SEMESTER** |
| **C.CODE** | **Course Name** | **C/E** | **Theo.** | **Prac.** | **Tot.** | **Credit**  |
|  | **Compulsory Course** |  |  |  |  | **National** | **ECTS** |
| VLTZ101 | Guided Study (Counseling) | C | 0 | 1 | 1 | 0 | 15 |
| VLTZ103 | Research Methods | C | 3 | 0 | 3 | 3 | 5 |
| Elective Courses (Total 25 ECTS credit courses will be taken in the Elective Courses Pool) |
|  | Elective Lessons I | E |  |  |  |  | 5 |
|  | Elective Lessons II | E |  |  |  |  | 5 |
|  | Elective Lessons III | E |  |  |  |  | 5 |
|  | Elective Lessons IV | E |  |  |  |  | 5 |
|  | Elective Lessons V | E |  |  |  |  | 5 |
|  | **Total** |  |  |  |  |  | **45** |

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| **II. SEMESTER** |
| **C.CODE** | **Course Name** | **C/E** | **Theo.** | **Prac.** | **Tot.** | **Credit**  |
|  | **Compulsory Course** |  |  |  |  | **National** | **ECTS** |
| VLTZ102 | Guided Study (Counseling) | C | 0 | 1 | 1 | 0 | 15 |
| VLTZ104 | Semester Project | C | 0 | 1 | 1 | 0 | 5 |
| Elective Courses (Total 25 ECTS credit courses will be taken in the Elective Courses Pool) |
|  | Elective Lessons I | E |  |  |  |  | 5 |
|  | Elective Lessons II | E |  |  |  |  | 5 |
|  | Elective Lessons III | E |  |  |  |  | 5 |
|  | Elective Lessons IV | E |  |  |  |  | 5 |
|  | Elective Lessons V | E |  |  |  |  | 5 |
|  | **Total** |  |  |  |  |  | **45** |

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| **ELECTIVE COURSES POOL**  |
| **C.CODE** | **Course Name** | **C/E** | **Theo.** | **Prac.** | **Tot.** | **Credit**  |
|  | **Elective Lessons** |  |  |  |  | **National** | **ECTS** |
| VLTZ105 | General information about mice | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ106 | General information about rat | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ107 | General information about hamster | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ108 | General information about Guinea pig | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ109 | General information about rabbit | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ110 | General information about zebrafish | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ111 | General information about quail  | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ112 | General information about poultry | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ113 | General information about the other laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ114 | General information about the invertebrate laboratory animals  | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ115 | General information about the transgenic animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ116 | Alternative test methods for experimental animals  | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ117 | Introduction to the anatomy of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ118 | Introduction to the physiology of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ119 | Introduction to the biochemistry of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ120 | Introduction to the histology of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ121 | Introduction to the genetics of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ122 | Introduction to the parasitology of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ123 | Introduction to the microbiology of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ124 | Introduction to the virology of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ125 | Introduction to the pharmacology of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ126 | Introduction to the toxicology of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ127 | Introduction to the pathology of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ128 | Microscopic slide preparation techniques | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ129 | Microscopic preparations staining techniques | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ130 | Wound and wound healing | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ131 | Oncology and Introduction to the experimental oncology | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ132 | Anesthesia and euthanasia in the laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ133 | Preoperative and postoperative nursing | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ134 | Introduction to clinic of laboratory animal diseases  | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ135 | Drug use in laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ136 | Introduction to the nutrition of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ137 | Introduction to the production of laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ138 | Handling, fixing and blood collection methods | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ139 | Necropsy and sampling in laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ140 | Visualization of macroscobical lesions | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ141 | Toxicological pathology   | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ142 | Screening tests in environmental toxicology  | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ143 | General administration methods in laboratory animal | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ144 | Basic laboratory principles and methods | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ145 | Bio-security in laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ146 | Establishment, operation, and management of experimental animal unit | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ147 | The general principles on laboratory animal psychology | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ148 | Welfare and behavior in laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ149 | Research ethics principles in laboratory animals | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ150 | Health-related research and analysis methods  | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ151 | Literature review and transferring | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ152 | Scientific article translation techniques | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ153 | Research project preparation in experimental researches | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ154 | Record and presentation of experimental research data | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ155 | Biostatistics in experimental studies  | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ156 | Publication processes of research  | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ157 | Scientific article writing | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ158 | Science, research, and publication ethics | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ159 | Scientific innovations | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ160 | Legislations of experimental animals  | S | 4 | 0 | 4 | 4 | 5 |
| VLTZ161 | Zoonotic diseases of experimental animals | S | 4 | 0 | 4 | 4 | 5 |