# AYDIN ADNAN MENDERES UNIVERSITY
# COURSE INFORMATION FORM

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|---|---|---|---|---|---|---|---|---|---|
| Course Title | Applications and Usages of Drugs in Laboratory Animals | | | | | | | | |
| Course Code | VFT547 | | Couse Level | Second Cycle (Master's Degree) | | | | | |
| ECTS Credit | 4 | Workload | 99 *(Hours)* | Theory | 1 | Practice | 2 | Laboratory | 0 |
| Objectives of the Course | In accordance with general principles applicable to the treatment of diseases of viral infections in laboratory animals, prevention of secondary infections, bacterial and fungal infections in laboratory animals in treatment which is used in addition to the effects of drug use and drug use in general and local anesthetics and their applications to provide information about, and gain the ability to apply. | | | | | | | | |
| Course Content | Laboratory animals and their characteristics, detection and inspection, maintenance and hygiene rules, in accordance with general principles applicable to the treatment of diseases of viral infections in laboratory animals, prevention of secondary infections, and the effects of drug use in treatment of bacterial and fungal infections and an important addition to the general and local anesthetic drug used in laboratory animals and applications | | | | | | | | |
| Work Placement | N/A | | | | | | | | |
| Planned Learning Activities and Teaching Methods | Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study, Problem Solving | | | | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

| Assessment Methods and Criteria | | |
|---|---|---|
| Method | Quantity | Percentage (%) |
| Midterm Examination | 1 | 40 |
| Final Examination | 1 | 60 |

| Recommended or Required Reading | |
|---|---|
| 1 | Veterinary Pharmacology and Therapeutics, 8th Edition, Jim E. Riviere (Editor), Mark G. Papich (Editor), 2009. |
| 2 | Modern Pharmacology, 6th Edition, Lippincott Williams and Wilkins, 2004 (Ed. C.R. Craig and R.E. Stitzel) |
| 3 | Basic and Clinical Pharmacology, 9th Edition, McGraw-Hill, New York, 2004 (Ed. B. Katzung |
| 4 | Goodman and Gilman's The Pharmacological Basis of Therapeutics 11th Edition, McGraw-Hill, 2006 (Eds. Brunton, Lazo, Parker, Buxton and Blumenthal) |
| 5 | Lippincott's Illustrated Reviews: Pharmacology, 3rd Edition, Lippincott Williams and Wilkins, 2005 (Eds. Howard, Mycek, Harvey & Champe) |
| 6 | The Veterinary Formulary edited by Yolande Bishop. London Pharmaceutical Press in association with the British Veterinary Association 2001. |
| 7 | Pharmacology. Franklin A. Ahrens. Baltimore, Md. London Williams & Wilkins 1996. |
| 8 | The physiological basis of veterinary clinical pharmacology J. Desmond Baggot. Oxford Blackwell Science 2001. |

| Week | Weekly Detailed Course Contents | |
|---|---|---|
| 1 | Theoretical | Laboratory animals and amenities, |
| | Practice | Presentation of laboratory animals-1 |
| 2 | Theoretical | Laboratory animal care, feeding and hygiene rules |
| | Practice | Presentation of laboratory animals-2 |
| 3 | Theoretical | Identification and examination of laboratory animals |
| | Practice | Laboratory animals are kept in-1 |
| 4 | Theoretical | Common diseases of laboratory animals |
| | Practice | Kept in laboratory animals-2 |
| 5 | Theoretical | And treatment of bacterial diseases of laboratory animals |
| | Practice | Methods of drug administration in laboratory animals-1 |
| 6 | Theoretical | And treatment of viral diseases of laboratory animals |
| | Practice | Methods of drug administration in laboratory animals-2 |
| 7 | Theoretical | Fungal diseases and treatment of laboratory animals |
| | Practice | Methods of drug administration in laboratory animals-3 |
| 8 | Practice | Methods of drug administration in laboratory animals-4 |
| | Intermediate Exam | Mid-term exam |
| 9 | Theoretical | Metabolic diseases and treatment of laboratory animals |

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|---|---|---|
| 9 | Practice | Regulations on laboratory animals cage-1 |
| 10 | Theoretical | Toxicity and treatment of laboratory animals |
| | Practice | Laboratory animals lattice arrangements-2 |
| 11 | Theoretical | Laboratory animals and treatment of skin diseases |
| | Practice | Laboratory animals metabolic cage-1 |
| 12 | Theoretical | And treatment of parasitic diseases of laboratory animals |
| | Practice | Metabolic cage laboratory animals-2 |
| 13 | Theoretical | And treatment of neoplastic diseases of laboratory animals |
| 14 | Theoretical | Euthanasia of laboratory animals |
| 15 | Theoretical | Discussion |
| 16 | Final Exam | Final |

**Workload Calculation**

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|---|---|---|---|
| Lecture - Theory | 14 | 2 | 1 | 42 |
| Lecture - Practice | 15 | 1 | 2 | 45 |
| Midterm Examination | 1 | 3 | 2 | 5 |
| Final Examination | 1 | 5 | 2 | 7 |
| | | | Total Workload (Hours) | 99 |
| | | | [Total Workload (Hours) / 25*] = **ECTS** | 4 |

**25 hour workload is accepted as 1 ECTS*

**Learning Outcomes**

| | |
|---|---|
| 1 | Laboratory hayvanalarında will have information on drug applications, and learns |
| 2 | Laboratory hayvanalarında will have information about drug use and learn |
| 3 | To learn knowledge and propose suggestions on the area |
| 4 | To find out and use resources about the profession in the area. |
| 5 | To give lectures and/or presentations and discuss with professionals in the area. |

**Programme Outcomes** *(Veterinary Pharmacology and Toxicology Master's Without Thesis)*

| | |
|---|---|
| 1 | to be able to comprehend expert knowledge on field of pharmacology and toxicology in veterinary medicine |
| 2 | to be able to define expert knowledge on interdisciplinary interaction in pharmacology and toxicology |
| 3 | to be able to formulate ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education. |
| 4 | to be able to integrate and interpret information in the area of pharmacology and toxicology with information in different fields and, if the need arises, provides scientific information and solutions to solve problems. |
| 5 | to be able to develop and use strategies in his/her field of expertise in Master’s Program of Pharmacology and Toxicology |
| 6 | to be able to comprehend methods of obtained and submitted scientific knowledge |
| 7 | to be able to analyse current information related to his/her field of expertise (scientific information, procedures etc.) and use them when necessary |
| 8 | to be able to apply technological tools in social relationships of vocational and professional environment. |
| 9 | to be able to review, evaluate and interpret any data (field observations, available scientific information etc.) towards a specific purpose. |
| 10 | to be able to comprehend expert knowledge on the function and basic pharmacological features of pharmacology and sub-branches of science, relationship between the drug and poison, pharmacokinetic, effects of the drugs, the dose-intensity and dose-effect relationship |
| 11 | to be able to identify expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning. |
| 12 | to be able to define and use laboratory equipment in a pharmacology and toxicology laboratory. |

**Contribution of Learning Outcomes to Programme Outcomes** *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

| | L1 | L2 | L3 | L4 | L5 |
|---|---|---|---|---|---|
| P1 | 4 | 3 | | | |
| P3 | | | 5 | | 5 |
| P4 | 5 | | 4 | | 4 |
| P5 | 3 | 3 | | | 5 |
| P6 | | | | 5 | 5 |

| | | | | | |
|---|---|---|---|---|---|
| P7 | | | | 4 | |
| P8 | | | | | 4 |
| P9 | 5 | 4 | 5 | 5 | 5 |