



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

|  |   |   |                      |   |   |                                |   |            |   |
|--|---|---|----------------------|---|---|--------------------------------|---|------------|---|
| Course Title                                     |   | Anatomy of Rat and Mouse  |                      |   |   |                                |   |            |   |
| Course Code                                      |   | VAN641  |                      | Couse Level                               |   | Third Cycle (Doctorate Degree) |   |            |   |
| ECTS Credit                                      | 4 | Workload  | 100 ( <i>Hours</i> ) | Theory                                    | 1 | Practice                       | 2 | Laboratory | 0 |
| Objectives of the Course                         |   | Topographic and comparative review of anatomical structures in rat and mouse.   |                      |   |   |                                |   |            |   |
| Course Content                                   |   | The basic anatomical knowledge about the locomotor, digestive, respiratory, genital, nervous and vessel systems in rat and mouse. |                      |   |   |                                |   |            |   |
| Work Placement                                   |   | N/A   |                      |   |   |                                |   |            |   |
| Planned Learning Activities and Teaching Methods |   |   |                      | Explanation (Presentation), Demonstration |   |                                |   |            |   |
| Name of Lecturer(s)                              |   |   |                      |   |   |                                |   |            |   |

### Assessment Methods and Criteria

| Method              | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1        | 28             |
| Final Examination   | 1        | 60             |
| Assignment          | 1        | 12             |

### Recommended or Required Reading

|   |  |
|---|--|
| 1 | ÖCAL, M.K., ERDEN, H., ÖĞÜT, İ., KARA, M.E "Anatomy of the Domestic Animals (General-Skin-Forelimb)." Adnan Menderes University Press No: 5 (1998) |
| 2 | NICKEL, R., SHUMMER, A., SEIFERLE, E "The Anatomy of the Domestic Animals Volume I –IV)" Verlag Paul Parey (1986)                                  |
| 3 | DYCE, KM., SACK, WO., WENSING, CJG "Textbook of Veterinary Anatomy" W.B. Saunders Company (1987)   |

| Week | Weekly Detailed Course Contents |   |
|------|---------------------------------|---|
| 1    | Theoretical                     | Biological characteristics of the rat and mouse   |
|      | Practice                        | Visiting the laboratory animals unit  |
| 2    | Theoretical                     | Locomotor system in the rat and mouse   |
|      | Practice                        | Studies on the skeleton bones of the rat and mouse  |
| 3    | Theoretical                     | Locomotor system in the rat and mouse   |
|      | Practice                        | Dissection of the muscles in the rat and mouse  |
| 4    | Theoretical                     | Locomotor system in the rat and mouse   |
|      | Practice                        | Dissection of the joints in the rat and mouse   |
| 5    | Theoretical                     | Respiratory system in the rat and mouse   |
|      | Practice                        | Dissection of the structure of the respiratory system in the rat and mouse                                |
| 6    | Theoretical                     | Circulatory system in the rat and mouse   |
|      | Practice                        | Dissection of the heart and arteries in the rat and mouse   |
| 7    | Theoretical                     | Digestive system in the rat and mouse   |
|      | Practice                        | Dissection of the structures of the digestive system in the rat and mouse                                 |
| 8    | Intermediate Exam               | Midterm exam  |
| 9    | Theoretical                     | Urogenital system in the rat and mouse  |
|      | Practice                        | Dissection of the urinary, male and female genital structures in the rat and mouse                        |
| 10   | Theoretical                     | Nervous system in the rat and mouse   |
|      | Practice                        | Dissection of the brain and spinal cord in the rat and mouse  |
| 11   | Theoretical                     | Nervous system in the rat and mouse   |
|      | Practice                        | Dissection of the spinal and cranial nerves in the rat and mouse  |
| 12   | Theoretical                     | Sense organs in the rat and mouse   |
|      | Practice                        | Dissection of the eye in the rat and mouse  |
| 13   | Theoretical                     | General surgical approaches of the rat and mouse  |
|      | Practice                        | Topographical approaches of the anatomic structures in the head and pectoral regions in the rat and mouse |
| 14   | Theoretical                     | General surgical approaches of the rat and mouse  |



|    |             |  |
|----|-------------|--|
| 14 | Practice    | Topographical approaches of the anatomic structures in the abdominal region in the rat and mouse |
| 15 | Theoretical | Surgical approaches of the abdominal organs in the rat and mouse                                 |
|    | Practice    | Topographical approaches of the abdominal organs in the rat and mouse                            |
| 16 | Final Exam  | Term exam  |

**Workload Calculation**

| Activity                              | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory                      | 14       | 0           | 1        | 14             |
| Lecture - Practice                    | 14       | 0           | 2        | 28             |
| Midterm Examination                   | 1        | 19          | 1        | 20             |
| Final Examination                     | 1        | 36          | 2        | 38             |
| Total Workload (Hours)                |          |             |          | 100            |
| [Total Workload (Hours) / 25*] = ECTS |          |             |          | 4              |

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

|   |   |
|---|---|
| 1 | To make the dissection of the rat and mouse   |
| 2 | To have the anatomical knowledge about the general approaches of the experimental surgery on the rat and mouse. |
| 3 | To distinguish the anatomical differences among the domestic animals and rat and mouse.                         |
| 4 | know nerve and vasculization in headlights and mice.  |
| 5 | know the skeleton and muscle system in rats and mice.   |

**Programme Outcomes (Anatomy (Veterinary Medicine) Doctorate)**

|   |   |
|---|---|
| 1 | Doing research in any specific issues related to anatomy, planning a study, evaluating and presenting a report on the scientific area, independently. |
| 2 | To be able to improve themselves by innovations of the Anatomy  |
| 3 | Sharing their concepts in seminar, symposium, conference etc. by using the skills of self study.  |
| 4 | Having the scientific and vocational wafer and defending this apprehension in every medium  |
| 5 | To be able to interpret what they have learned in the field of veterinary anatomy   |

**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 | 3  | 3  | 3  | 4  | 5  |
| P2 | 5  | 5  | 5  | 5  | 4  |
| P3 | 4  | 3  | 4  | 4  | 5  |
| P4 | 5  | 5  | 5  | 5  | 4  |

