



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

|  |   |  |            |  |   |                                |   |            |   |
|--|---|--|------------|--|---|--------------------------------|---|------------|---|
| Course Title                                     |   | Reproductive Hormones  |            |  |   |                                |   |            |   |
| Course Code                                      |   | VST539   |            | Course Level   |   | Second Cycle (Master's Degree) |   |            |   |
| ECTS Credit                                      | 3 | Workload   | 76 (Hours) | Theory   | 2 | Practice                       | 0 | Laboratory | 0 |
| Objectives of the Course                         |   | To give information about reproductive hormones, their functions, differences between animal species and the mechanism of action |            |  |   |                                |   |            |   |
| Course Content                                   |   | Reproductive hormones, their features and functions, reproductive hormones in different species are involved                     |            |  |   |                                |   |            |   |
| Work Placement                                   |   | N/A  |            |  |   |                                |   |            |   |
| Planned Learning Activities and Teaching Methods |   |  |            | Explanation (Presentation), Discussion, Individual Study |   |                                |   |            |   |
| Name of Lecturer(s)                              |   | Lec. Uğur UÇAN, Prof. Melih AKSOY  |            |  |   |                                |   |            |   |

### Assessment Methods and Criteria

| Method              | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1        | 40             |
| Final Examination   | 1        | 60             |

### Recommended or Required Reading

|   |  |
|---|--|
| 1 | Hafez E.S.E., Hafez B. (2000) Reproduction in Farm Animals. Lippincott Williams & Wilkins, Philadelphia              |
| 2 | Pineda M. H., Dooley M. P. (2003) McDonald's Veterinary Endocrinology and Reproduction, Iowa State Press, New York   |
| 3 | Alaçam E.: Evcil Hayvanlarda Reprodüksiyon, Suni Tohumlama, Doğum ve İnfertilite. First Edition, Konya, 1994.        |
| 4 | Youngquist R.S., Threlfall W.R.: Current Therapy in Large Animal Theriogenology. Second Edition, Philadelphia, 2007. |

| Week | Weekly Detailed Course Contents |  |
|------|---------------------------------|--|
| 1    | Theoretical                     | Reproductive hormones their effect mechanism |
| 3    | Theoretical                     | FSH ve LH                                    |
| 5    | Theoretical                     | Progestagens                                 |
| 6    | Theoretical                     | Prostaglandins                               |
| 7    | Theoretical                     | Testosterone, oxytocin, prolactin            |
| 8    | Theoretical                     | Ara sınav                                    |
| 9    | Theoretical                     | HCG, PMSG                                    |
| 10   | Theoretical                     | Reproductive hormones in cows                |
| 11   | Theoretical                     | Reproductive hormones in mares               |
| 12   | Theoretical                     | Reproductive hormones in ewes                |
| 13   | Theoretical                     | Reproductive hormones in goats               |
| 14   | Theoretical                     | Reproductive endocrinology in dogs           |
| 15   | Theoretical                     | Reproductive hormones in cats                |
| 16   | Final Exam                      | Final term exam                              |

### Workload Calculation

| Activity                              | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory                      | 14       | 0           | 2        | 28             |
| Reading                               | 14       | 0           | 1        | 14             |
| Midterm Examination                   | 1        | 13          | 1        | 14             |
| Final Examination                     | 1        | 18          | 2        | 20             |
| Total Workload (Hours)                |          |             |          | 76             |
| [Total Workload (Hours) / 25*] = ECTS |          |             |          | 3              |

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

|   |  |
|---|--|
| 1 | to be able to define reproductive hormones |
|---|--|



|   |  |
|---|--|
| 2 | to be able to comprehend administration and functions of reproductive hormones |
| 3 | to be able to apprehend effect mechanism of reproductive hormones              |
| 4 | To learn the use of reproductive hormones in the treatment of infertility.     |
| 5 | To learn the use of reproductive hormones in synchronization protocols.        |

**Programme Outcomes** (*Reproduction and Artificial Insemination (Veterinary Medicine) Master*)

|   |   |
|---|---|
| 1 | To get knowledge about Reproduction and Artificial Insemination with theoretical lessons and practise   |
| 2 | To get knowledge about reproductive systems of animals, reproductive organs and functions of these organs   |
| 3 | To get knowledge about reproductive physiology of male and female animals, reproductive endocrinology, synchronisations and reproductive health   |
| 4 | To get experience about diagnosis of oestrus, proper insemination time and method   |
| 5 | To get experience to join reproductive scientific research, to follow scientific advances own field. To transfer all these experiences and knowledge to students and society  |
| 6 | To gain ability to reach scientific references, to plan an experiment, study this experiment, evaluation of experimental results and compare this result similar experimental result                                |
| 7 | To get experience about cryopreservation and short term storage of sperm, examination of sperm  |
| 8 | To get knowledge about reproductive biotechnology (artificial insemination, in-vitro fertilisation, freezing of sperm and embryo, embryo transfer, laparoscopic insemination). To Contribute and advance to science |
| 9 | To get knowledge about infertility, diagnosis of infertility, treatment of infertility in domestic animals especially commercial farms  |

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

|    | L1 | L2 | L3 |
|----|----|----|----|
| P1 | 4  | 4  | 4  |
| P2 | 4  |    |    |
| P3 | 5  |    | 4  |
| P5 | 3  |    |    |
| P9 |    | 4  |    |

