



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

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|--|---|--|----------------------|--|---|--------------------------------|---|------------|---|
| Course Title | | The Cesarean Section | | | | | | | |
| Course Code | | VDJ530 | | Course Level | | Second Cycle (Master's Degree) | | | |
| ECTS Credit | 4 | Workload | 100 (<i>Hours</i>) | Theory | 2 | Practice | 2 | Laboratory | 0 |
| Objectives of the Course | | Explaining the need for caesarean operation in domesticated animals | | | | | | | |
| Course Content | | To inform about application techniques of indications of caesarean section and post-operative care in domestic animals | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

Assessment Methods and Criteria

| Method | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1 | 20 |
| Final Examination | 1 | 60 |
| Assignment | 4 | 20 |

Recommended or Required Reading

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| 1 | Alaçam, E. (2002) Doğum ve İnfertilite, Medisan Yayınları, Ankara. |
| 2 | Johnston, S.D., Kustritz, M.V.R., Olson, P.N.S. (2001) Canine and Feline Theriogenology, W.B. Saunders Comp., Philadelphia. |
| 3 | Noakes, D.E., Parkinson, T.J., England, G.C.W. (2001) Artur's Veterinary Reproduction and Obstetrics, W.B. Saunders Comp., Philadelphia. |
| 4 | Hafez, E.S.E. (1993) Reproduction in Farm Animals, Lea & Febiger, Philadelphia. |
| 5 | Dinç, D.A. (2008) Ultrason fiziği ve ineklerde reproduktif ultrasonografi, Pozitif Matbaacılık Ltd. Şti, Ankara. |
| 6 | J. Kevin KEALY, H. Mc ALLISTER (2005) Diagnostic Radiology and Ultrasonography of the Dog and Cat |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|---|
| 1 | Theoretical | Pregnancy process in farm animals |
| | Practice | Examination of a pregnant experimental animal |
| 2 | Theoretical | Birth process and physiology in farm animals |
| | Practice | Examination and observing of a pregnant experimental animal and |
| 3 | Theoretical | Uterus inertia and causes of difficult birth and treatment options in farm animals |
| | Practice | Intervention to the animal that starts to give birth |
| 4 | Theoretical | Clinical approach to problems that may be encountered at birth in farm animals |
| | Practice | Intervention to the animal that starts to give birth |
| 5 | Theoretical | Pregnancy process and physiology in pet animals |
| | Practice | Examination and observing of a pregnant experimental animal |
| 6 | Theoretical | Uterus inertia and causes of difficult birth in pet animals and treatment options |
| | Practice | Intervention to the animal that starts to give birth |
| 7 | Theoretical | Clinical approach to problems that may be encountered at birth in pet animals (Intermediate exam) |
| | Practice | Intervention to the animal that starts to give birth |
| 8 | Theoretical | Technique of cesarean section |
| | Practice | To show operation technique |
| 9 | Theoretical | Cases which require cesarean section in farm animals |
| 10 | Theoretical | Preparation for cesarean section in farm animals |
| | Practice | Examination of the animal giving birth |
| 11 | Theoretical | Cesarean section in farm animals |
| | Practice | Preparation of animals and materials for caesarean section |
| 12 | Theoretical | cases that require operation cesarean in pet animals |
| | Practice | caesarean section Practise |



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|----|-------------|--|
| 13 | Theoretical | Preparation for cesarean section in pet animals |
| | Practice | intervention of the animal giving birth |
| 14 | Theoretical | Cesarean section in pet animals |
| | Practice | Preparation of animals and materials for caesarean section, caesarean section practise |

Workload Calculation

| Activity | Quantity | Preparation | Duration | Total Workload |
|---|----------|-------------|----------|----------------|
| Lecture - Theory | 14 | 0 | 2 | 28 |
| Lecture - Practice | 14 | 0 | 2 | 28 |
| Assignment | 4 | 0 | 1 | 4 |
| Reading | 14 | 0 | 2 | 28 |
| Midterm Examination | 1 | 4 | 2 | 6 |
| Final Examination | 1 | 4 | 2 | 6 |
| Total Workload (Hours) | | | | 100 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 4 |
| *25 hour workload is accepted as 1 ECTS | | | | |

Learning Outcomes

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|---|---|
| 1 | To be able to comprehend pregnancy process in domesticated animals |
| 2 | To be able to comprehend problems that may be encountered in pregnancy |
| 3 | To be able to comprehend cases which require surgical intervention during parturition |
| 4 | To be able to comprehend basics and path to be followed for cesarean section |
| 5 | To be able to comprehend medical materials used for cesarean section |
| 6 | To be able to comprehend issues which are to be considered during operations |

Programme Outcomes (Obstetrics and Gynecology (Veterinary Medicine) Master)

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| 1 | Acquiring basic principles and establishing crucial links in the theory and practical aspects in the field of Obstetrics and Gynecology. Getting grip on the animal's reproductive systems, organs, structures and their functional features. |
| 2 | Reproductive anatomy of the female animals, embryonic development of the gonads, maturation, cellular and hormonal mechanisms of oogenesis and mechanisms of ovulation and transport of ovum. Sexual cycles of the female animals and their species related differences. |
| 3 | Being informed about the fertilisation, early embryonic development, implantation and pregnancy. Fetal development, intrauterine life and detection of risked pregnancies. Learning to deal with the the issues of abortion. Knowing the hormonal and obstetrical aspects of normal parturition. Recognizing dystocia cases and being aware of predisposing and effective etiology of dystocia. Learning the initial approach to dystocia cases and learning to choose the appropriate intervention. Learning to apply the obstetrical methods. |
| 4 | Being informed about the puerperium and postpartum periods, learning the physiology and diagnosis and treatment of pathological conditions (metabolic, infectious and traumatic) during the transition period. Learn the ability to perform intrauterine applications. Acquiring right approaches on handling mother and the offspring in the puerperal period. Learning about the care and diseases of the newborn. |
| 5 | Gaining experience about the fertility parameters in the farm animals. Being informed about the diagnosis and therapy of infertility cases and management of them in the herd scale. Learning necessary precautions and management practices for establishing the reproductivity as a branch of herd health. Being informed about the effects of nutrition and management on reproduction. |
| 6 | Acquiring the knowledge of the hormones and their clinical applications, affecting reproduction directly or indirectly. Learning methods of sexual synchronisation and appropriate timing of insemination or mating. Being able to administer medical and operative contraceptive methods to female animals. Being informed about assisted reproductive techniques. |
| 7 | Administering specialized systematic examination of female animals, performing morphologic and functional examination of the female genitalia and mammary glands thus learning the diagnosis of hormonal, infectious, traumatic and tumoral diseases. Gaining skills in surgical therapy or/and elective gynaecological-oncological, udder and teat operations of the related diseases. |
| 8 | Having knowledge of the etiology, diagnosis and therapy of mastitis. Learning necessary precautions and management practices to control mastitis incidence in farm animals particularly in dairy enterprises. Having knowledge of etiology, diagnosis and therapy of circulatory disorders and infectious and non-infectious skin diseases. |
| 9 | Being informed about frequently used anesthetic methods and anesthetic agents, analgesics, antibiotics, liquid therapy and other medical agents. Gaining skills in solving problems due to reproductive emergency cases, being able to make definitive diagnosis by clinical symptomatic data and administer appropriate therapy in various animal species. |
| 10 | Learning methods and principles of scientific research, learn and acquire scientific ethics concept. Being aware of current developments by surveying and analyzing scientific literature. Gaining skills in interpreting classical knowledge of the scientific area to the students and the community. |
| 11 | Being able to plan, conduct and accomplish an original scientific study that can deliver novelty, develop a new scientific method or adopt a known method to a new area and present the results as a scientific article, in the area of obstetrics and gynaecology. |



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

| | L1 | L2 | L3 | L4 | L5 | L6 |
|----|----|----|----|----|----|----|
| P1 | 5 | 5 | 5 | 5 | 5 | 5 |
| P2 | 3 | | | | | |
| P3 | 3 | | | | | |
| P7 | | | | 4 | | 3 |

