AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Reproduction Performance in Sheep Breeding						
Course Code	VZO528		Couse Level	Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	96 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The aim of the course is to teach the importance of reproduction in sheep breeding, the factors of effecting reproduction and management procedures carried out to improve reproduction						
Course Content	The importance of reproduction in sheep breeding, the sexual maturity age and the age of first use for breeding, insemination methods in sheep, male and female ratio according to insemination methods in natural insemination, the factors effecting reproduction in sheep breeding, the methods to improve the reproduction, management procedures carried out to improve the reproduction, synchronization of oestrus, hormone applications, the methods of two lambing in a year or three lambing in two years.						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods		Explanation (Presentation), Individual Study					
Name of Lecturer(s)	Prof. Hüsnü Erbay BARDAKÇIOĞLU						

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Akçapınar, H. (1994): Koyun Yetiştiriciliği. Medisan Yayınları, Ankara
2	Crean, D., Bastian, G. (1997): Sheep Management and Wool Production. Inkata Press, Australia
3	Aytuğ, C.N., Yalçın, B.C., Alaçam, E., Türker, H., Gökçen H., Özkoç, Ü. (1990): Koyun Keçi Hastalıkları ve Yetiştiriciliği. Teknografik Matbaası, İstanbul
4	Ensminger, M. E. (1992): The Stockman's Handbook. Interstate Publishers. Inc. Denville, Illinois.
5	Ruvinsky, A., Piper, L.(1997): The Genetics of Sheep. CAB International, UK.
6	Rodostits, O.M. (2001): Herd Health. W.B. Saunders Company.
7	Aland, A., Madec, F. (2009): Sustainable Animal Production. Wageningen Academik Publishers, The Netherlands.
8	Battaglia, R.A. (2001): Handbook of. Livestock Management. Prentice-Hall International (UK) Limited, London.

Week	Weekly Detailed Course Contents	
1	Theoretical	Description of reproduction and importance of reproduction in sheep breeding
2	Theoretical	Important terms of reproduction used for sheep breeding
3	Theoretical	Reproductive physiology in sheep
4	Theoretical	Sexual maturity age, the age of first use for breeding, oestrus cycles in sheep
5	Theoretical	Insemination
6	Theoretical	Insemination methods and male-female ratio in natural insemination
7	Theoretical	The factors effecting reproduction in sheep breeding
8	Intermediate Exam	Midterm exam
9	Theoretical	The methods of improving the fertility in sheep breeding
10	Theoretical	Supplementary feeding program and fertility
11	Theoretical	Oestrus synchronization
12	Theoretical	To include ram among sheep in the herd
13	Theoretical	Hormone applications
14	Theoretical	The method of two lambing in a year in sheep breeding
15	Theoretical	The method of three lambing in two years in sheep breeding
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28

Assignment	2	0	8	16
Reading	1	0	30	30
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
			Total Workload (Hours)	96
			[Total Workload (Hours) / 25*] = **ECTS**	4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	to know reproduction parameters in sheep
2	to know the factors effecting reproduction and use in animal breeding
3	to know management practices required for optimum reproduction to breed specific
4	to know the principles of oestrus synchronization, hormone applications, flushing, the methods of two lambing in a year or three lambing in two years and to carry out these applications.
5	to carry out management of reproduction in sheep enterprises.

Programme Outcomes *(Animal Science (Veterinary Medicine) Master)*

1	Knows basic principles of animal rearing and breeding.
2	Knows physiological and morphological traits of farm animals. He/she can achieve a successful herd management by means of transferring his/her knowledge to the rural area.
3	Knows management of the animals and can take required measurements in the farm. He/She controls the productivity in the farm and keeps all farm records.
4	Knows selection and culling methods.
5	He/She can involve in all stages of production in the farm. Knows how to establish and manage of farm enterprises. He/She can help to the entrepreneurs who will enter the farm business.
6	He/She can detect and eliminate hereditary defects and problems by using his/her basic genetic knowledge.
7	Knows production traits due to his/her knowledge about hereditary principles. He/She can achieve heifer selection and determine breeding strategies for maximum production.
8	He/She can involve as an expert in scientific researches, breeding programs and judicial issues with his/her knowledge about race determination, parenthood tests, blood groups etc.
9	Knows how to reach resources and knows selection criterions of scientific researches. He/She can systematically present data. Knows statistical concepts and how to can get data, and present those as figures and tables and how to comment them. Knows different statistical methods. He/She can design a topic as a scientific paper.
10	Knows animal behaviours. Knows legal directives about animal welfare and can design some facilities such as housing, feeding, transferring and slaughtering processes according to these directives.

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	2	1	1		
P2	4	4	3	3	3
P3	3	4	3	3	3
P5	3	3	3	3	3
P10			2		