



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Mating Methods							
Course Code		VZO524		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of the course is to teach mating methods among various animal breeds for the purpose of changing the genotypic structure and improving the different production traits in animal breeding.							
Course Content		Purebreeding, inbreeding, out-breeding, commercial breeding, cross-breeding and hybridization in livestock and applying of these in turkey.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Individual Study					
Name of Lecturer(s)		Lec. Solmaz KARAARSLAN, Prof. Mehmet Kenan TÜRKYILMAZ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Willis, B. M. (1991) Dalton's Introduction to Practical Animal Breeding. Third ed. Oxford Blackwell Scientific Publications. London
2	Bourdon, M. R. (2000) Understanding Animal Breeding. Second ed. Prentice Hall, upper Saddle River, New Jersey
3	Kumlu, S., (2003) Hayvan Islahı. Damızlık Sığır Yetiştiricileri M., Ankara

Week	Weekly Detailed Course Contents	
1	Theoretical	General information about mating methods
2	Theoretical	Description of purebreeding and its importance in animal breeding
3	Theoretical	Degree of relationship in livestock
4	Theoretical	To determine of the relationship degree
5	Theoretical	Genetic diversity and its importance in animal breeding
6	Theoretical	Description of inbreeding and its importance in animal breeding
7	Theoretical	Inbreeding types
8	Intermediate Exam	Midterm exam
9	Theoretical	Advantages and disadvantages of inbreeding
10	Theoretical	Description of crossbreeding and crossbreeding types
11	Theoretical	Conversion crossbreeding and using of it in animal breeding
12	Theoretical	Combination crossbreeding and using of it in animal breeding
13	Theoretical	Commercial crossbreeding and using of it in animal breeding
14	Theoretical	The importance of crossbreeding in animal breeding
15	Theoretical	Crossbreeding researchs in Turkey
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	10	20
Reading	1	0	30	30
Midterm Examination	1	10	1	11



Final Examination	1	10	1	11
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	to learn and use the breeding methods required for improving the production traits in livestock.
2	to learn and use purebreeding in animal breeding.
3	to learn and apply inbreeding methods
4	to learn cross-breeding types and use the purpose of animal breeding
5	to investigate and analysis of technological improvements on mating methods

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
P1	1	1	1	1
P2	3	2	1	1
P3	2	2	1	1
P4	5	4	2	2
P5			2	2
P7	1	1	2	3

