



NEAR EAST UNIVERSITY
Faculty of Veterinary Medicine Course Curriculum

1.	Course Name	ANIMAL BREEDING
2.	Course Code	VTE310
3.	Course Type	Compulsory
4.	Course Level	Undergraduate
5.	Year	3
6.	Semester	Spring, 6VET
7.	ECTS Credits	1
8.	National credits	1
9.	Theoretical Course Hours (hours/week)	1h/week
10.	Practical Course Hours (hours/week)	-
11.	Course Prerequisites	None
12.	Other Topics Recommended for the Course	None
13.	Course Language	English
14.	Course Format	Face-to-face
15.	Course Coordinator	Prof. Dr. Dilek ARSOY
16.	Other Lecturers that Give the Course	-
17.	Communication Details of the Coordinator	Near East University, Faculty of Veterinary Medicine Department of Animal Science, Nicosia / TRNC E-mail: dilek.arsoy@neu.edu.tr darsoy@gmail.com
18.	Course Web Address	
19.	Course Aim	To learn genetic selection and combining methods and results in animal species.

20.	Contribution of the Course to Occupational Development	Being aware of the positive and negative aspects of the methods of obtaining high yielding, healthy and genetically superior animals and giving consultancy.
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21.	Course Learning Outcomes	LO1	Able to understand related concepts/theories Will be able to discuss the validity of related concepts/theories
		LO2	Will be able to apply related concepts/theories to real life/other given situations/cases Will be able to critically analyse the real-life applications of related concepts/theories
		LO3	Will be able to develop/create a new approach Able to carry out given work independently Able to work as a group on a given work
		LO4	different concepts and theories to create their own unique approaches, able to synthesize
		LO5	Preparation for the presentation(s) Evaluate their own work according to the given criteria.
		LO6	Will appreciate the value of learning Able to develop targeted skills

22.	Course Content	WEEK	THEORETICAL COURSE CONTENT	PRACTICAL CONTENT
		1.	Introduction to animal breeding	
		2.	Qualitative Quantitative and Threshold Characters (1)	
		3.	Qualitative Quantitative and Threshold Characters (2)	
		4.	Gene effects in Qualitative and Quantitative characters	
		5.	Phenotype genotype environment	
		6.	Population parameters and Correlations	
		7.	Heritability and recurrence	
		8.	Midterm exam	
		9.	Heterosis and gene frequencies	
		10.	Selection basics - Pure Breeding	
		11.	Selection methods (1)	
		12.	Selection methods (2)	
		13.	Breeding methods 1	
		14.	Breeding methods 2 Biotechnology and animal breeding	

23.	Course Book, References and/or Other Resources	1. Hayvan Islahı, Ders Notları, Başpınar H., 1999.
		2. Hayvan Islahı, Kumlu S., 2003.
		3. Handbook of Statistical Genetics Volume 1-2, Balding D.J., Bishop M., Cannings C.2003.
		4. Economic Aspects of Animal Breeding, Weller J. I., 1994.
		5. Mathematical Population Genetics I. Theoretical Introduction. Ewens J. W.,2004.
		6. Introduction to Population Genetics, Halliburton R., 2000
		7. Hayvan Islahı temel bilgileri,Akçapınar,H;Ünal N.2012

24.	Evaluation	SEMESTER WORK	NUMBER	PERCENTAGE OF CONTRIBUTION
		Midterm Exam	1	40
		Short Exam		
		Homework, Performance		
		End of Year Exam	1	60
		Total		100
		Evaluation Approaches	Exams consist of multiple choice and classic questions	

25.	ECTS / Workload Table	Activity	NUMBER	Duration [Hours]	Total Workload [Hours]
		Theoretical Courses	14	1	14
		Practical Courses			
		Extracurricular Lesson Study Time (Preparation, revising)	14	2	28
		Homework, Performance	3	4	12
		Projects	1	3	3
		Field Studies			
		Midterm Exams	1	1	1
		Other			
		End of Semester Exams	1	2	2
		Total Workload			60
		Total Workload/ 30 Hours			30/30
		Course ECTS Credits			1