GENETIC						
1	Course Title:	GENETI	GENETIC			
2	Course Code:	VET1019				
3	Type of Course:	Compulsory				
4	Level of Course:	First Cycle				
5	Year of Study:	1				
6	Semester:	1				
7	ECTS Credits Allocated:	2.00				
8	Theoretical (hour/week):	2.00				
9	Practice (hour/week):	0.00				
10	Laboratory (hour/week):	0				
11	Prerequisites:	None				
12	Language:	English				
13	Mode of Delivery:	Face to face				
14	Course Coordinator:	Doç.Dr. ÖZDEN ÇOBANOĞLU				
15	Course Lecturers:					
16	Contact information of the Course Coordinator:	e-mail: cobanog@yahoo.com U.Ü. Veteriner Fakültesi Genetik Anabilim Dalı Nilüfer/BURSA				
17	Website:					
18	Objective of the Course:	To educate students about the source of variations of living organism, the effect of genotype on this variations, what is the means of inherited of genetic information generation to generation, what is the gene, gene structure, interactions between genes, interactions of genetic x environment, inherited disorders, eliminations of genetic disorders, mutations, heredity mechanism, population genetics and biotechnological methods related to genetics.				
19	Contribution of the Course to Professional Development:					
20	Learning Outcomes:					
		1	They learn the basic concepts of the genetic			
		2	They learn the reasons of the difference between the animates and utilize these information about protecting races and animal improvement			
		3	They learn the roles of genes on heredities and gain the information about the different behaviours of genes and the interactions of genes.			
		4	They acquire the structures and functions of the chromosomes and genes.			
		5	They know the contribution of genetic on the appearance of diseases and don't blink the genetic elements can be into the aetiology of diseases.			
		6	They learn determination of race, parents / parental tests and how can they utilize the genetic structure in the same areas.			
		7	They gain information about using the molecular techniques on the animal improvement& the treatment of their diseases.			
		8	They learn structure of DNA and RNA			
		9	They learn protein metabolism			
		10	They learn basic information about MAS, GAS and QTL			

21	Course Content:					
	Course Content:					
Week	Theoretical	Practice				
	Introduction of genetic, character, phenotype, genotype, environment, environment x genotype introduction, variations.					
2	Kinds of gene and its heredity. (dominant and recessive heredity, intermediary heredity), freedom of genes and gametes.					
3	Testing combinations. (mono hybridisms, bi hybridisms, tri hybridisms, poly hybridisms), Formulas which can be helpful for combinations.					
4	Cells as genetic (cell morphology, cytoplasm, core, chromatin, Barr substances, DNA, RNA, proteins, DNA synthesis, DNA regeneration, RNA synthesis).					
5	Chromosomes (Chromosome morphology, Chromosome types, cerotype, thin structure of chromosomes, huge Chromosomes).					
6	Genes and genetic code (structural genes, operator genes, regulator genes, the role of cytoplasm on heredity, protein synthesis on cell).					
7	Division of cell as genetic and the importance of genetic division, crossing over.					
Activites		Number	Duration (hour)	Total Work Load (hour)		
Th g ore	icethal genes, struggle methods with lethal	14	2.00	28.00		
Practica		0	0.00	0.00		
Self study and shear alimnals, using techniques for		10	1.00	10.00		
Homeworks		0	0.00	0.00		
Project	Recombination (conjugation transduction	0	0.00	0.00		
Field St	tudies	0	0.00	0.00		
Mi d2 ern	Mexicatinens, (deficiency, deletion, inversion,	1	10.00	10.00		
Others		0	0.00	0.00		
Final E	ଫ୍ଲିଲges of chromosome numbers.	1	12.00	12.00		
	ork Load			60.00		
	ork load/ 30 hr			2.00		
	Credit of the Course			2.00		
		 Medikal Genetik İlkeler, Şaylı, B. S., Türkiye Klinikleri Yayınevi, 1995. Genetics of Livestock Improvement, Lasley, J. F., Prentice-Hall Inc., Englewood Cliffs, New Jersey, 1998. Genetics and analysis of Quantitative Traits. Lynch, M., Walsh, B. Sinauer Associates Inc., Sunderland, Massachusetts, 1997. Genetik, Erensayın, C., Nobel Yayın Dağıtım, Ankara, 2000. Veteriner Genetik, Odabaşıoğlu F., 2005. Genetics A Conceptual Approach Second Edition, Pierce B. A., 2006 				
23	Assesment					

TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT
Midterm Exam		40.00
Quiz		10.00
Home work-project		0.00
Final Exam	1	50.00
Total	3	100.00
Contribution of Term (Year) Learning Activities Success Grade	es to	50.00
Contribution of Final Exam to Success Grade)	50.00
Total		100.00
Measurement and Evaluation Techniques Us Course	sed in the	
24 ECTS / WORK LOAD TABLE		

CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME **QUALIFICATIONS** PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ÖK3 ÖK4 ÖK5 ÖK6 ÖK7 ÖK8 ÖK9 ÖK10 LO: Learning Objectives PQ: Program Qualifications

Contrib 1 very low 2 low 3 Medium 4 High 5 Very High ution Level: