	GENETICS									
1	Course Title:	GENETI	CS							
2	Course Code:	ZOO2402								
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cycle								
5	Year of Study:	2								
6	Semester:	4								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	NONE								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. CENGİZ ELMACI								
15	Course Lecturers:	Prof. Dr. Cengiz ELMACI								
16	Contact information of the Course Coordinator:	elmaci@uludag.edu.tr, 224 2941554 U.Ü. Ziraat Fakültesi Zootekni Bölümü, Bursa								
17	Website:									
18	Objective of the Course:	Learn pr	incipal topics and basic concepts of genetics and heredity.							
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Learns basic concepts of Genetics							
		2	Knows genetic material and its function in heredity.							
		3	Understands relationship between heredity model of different traits and breeding programmes.							
		4	Learns sources and mechanisms of genetic diversity.							
		5	Comprehends importance and role of genetics in Agricultural sciences.							
		6	Learns basic essential knowledge for genetic engineering and biotechnology.							
		7								
		8								
		9								
		10								
21	Course Content:									
10/	<b>T</b>	Co	ourse Content:							
	Theoretical	of the	Practice							
1	Introduction to genetics, brief history genetics	or the								
2	Cells, prokaryotic and eukaryotic organization	anisms,								
3	Genetics events									
4	Mendelian genetics and its basic prin solving problems	iciples,								

5	Linkage, crossing-over, solving probl	ems						
6	Sex and sex determination systems, linked traits, solving problems	sex						
7	Gen interactions, solving problems							
8	Quantitative traits and genetics							
9	Population genetics, Hardy-Weinberg equilibrium, solving problem	9						
10	Gene concept, What is gene?							
11	DNA: Chemical nature of gene							
12	DNA replication, transcription, Genet and translation	ic code						
13	Mutation, Gene(Point) mutation							
	Variations in chromosome structure a numbers	and						
22	Textbooks, References and/or Other Materials:		Soysal, M.İ. 2006. Genetik, Tekirdağ Ziraat Fakültesi Yayınları, Tekirdağ.  Yüce, S., Bilgen, G., Demir, İ. 2010. Genetik, Nobel Yayın Dağıtım, Ankara  Öner, C. 2001. Genetik, Kavramlar, Palme Yayıncılık  Pierce, B.A., 2003. Genetics: A Conceptual Approaches., ISBN: 1-57259-160-9					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	1	40.00					
Quiz		0	0.00					
Home v	Home work-project 0		0.00					
Final Ex	xam	1	60.00					
Total		2	100.00					
Contribution of Term (Year) Learning Activities to Success Grade			40.00					
Contrib	ution of Final Exam to Success Grade	)	60.00					
Total			100.00					
Course		sed in the						
24 ECTS / WORK LOAD TABLE								

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	12.00	12.00
Others	10	2.00	20.00
Final Exams	1	18.00	18.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

OF CONTRIBUTION OF LEADNING OUTCOMES TO BECOR AND																
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME  QUALIFICATIONS															
	QUALITION TO TO															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low 2 low ution Level:				3 Medium			4 High			5 Very High						