GENETICS											
1	Course Title:	GENETI	CS								
2	Course Code:	ZOO240	2								
3	Type of Course:	Compuls	ory								
4	Level of Course:	First Cyc	le								
5	Year of Study:	2									
6	Semester:	4									
7	ECTS Credits Allocated:	3.00									
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 f	ace								
14	Course Coordinator:	Prof. Dr.	CENGİZ ELMACI								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	Prof. Dr. Bursa Ul Zootekni Tel: 0(22 e-posta:e	Cengiz ELMACI udağ Üniversitesi, Ziraat Fakültesi Bölümü 4)2941554 elmaci@uludag.edu.tr								
17	Website:										
18	Objective of the Course:	Learn principal topics and basic concepts of genetics and heredity									
19	Contribution of the Course to Professional Development:	As he lea mechani scientific knowled compete	arns the basic concepts of genetics and the molecular sm of inheritance, he will be able to follow the topics and developments in the field of genetics and apply this ge in different fields of agriculture. Thus, he will have the nce to follow the current in his profession.								
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:										
		Co	urse Content:								
Week	Theoretical		Practice								
1	Introduction to genetics, brief history genetics	of the									

3 Genetics events 4 Mendelian genetics and its basic principles, solving problems 5 Linkage, crossing-over, solving problems 6 Sex and sex determination systems, sex linked traits, solving problems 7 Gen interactions, solving problems 8 Quantitative traits and genetics 9 Population genetics, Hardy-Weinberg equilibrium, solving problems 10 Gene concept, What is gene? 11 DNA: Chemical nature of gene 12 DNA replication, transcription, Genetic code and translation Soysal, M.I. 2006. Genetik, Tekirdag Ziraat Fakültesi Yayınları, Tekirdaği, Yüce, S. Bilgen, G., Demir, I. 2010. Genetik, Nobel Yayın nextrem, Autoria, Auto	2	Cells, pr chromos	okaryo omes	otic an	d euk	aryotic	orgar	nisms,												
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ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	3	0	0	0	0	0	0	3	0	0	3	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low			3 Medium			4 Hig	h	5 Very High					