

# GENETICS

1	Course Title:	GENETICS	
2	Course Code:	ZOO2402	
3	Type of Course:	Compulsory	
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 principal 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.
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Introduction to genetics, brief history of the genetics		
2	Cells, prokaryotic and eukaryotic organisms, chromosomes		
3	Genetics events		
4	Mendelian genetics and its basic principles, solving problems		



ÖK5	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0
ÖK6	0	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium			4 High			5 Very High					