		GEN	NETICS						
1	Course Title:	GENETI	CS						
2	Course Code:	MBG200	8						
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:	6.00							
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.	SEZAİ TÜRKEL						
15	Course Lecturers:	Prof.Dr.	Sezai Türkel						
16	Contact information of the Course Coordinator:	sturkel@	uludag.edu.tr						
17	Website:								
18	Objective of the Course:	To teach repair an	the basic mechanisms of heredity, DNA structure, DNA d basic features of mutations						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Knows basic concepts of genetics						
		2	Knows biochemical features of genetic materials						
		3	Knows mendel's rules and mendelian genetics						
		4	Knows interactions among different gene groups						
		5	Knows genetics and biochemistry of DNA damages and DNA repairs						
		6	Knows principles of cytoplasmic genetics						
		7	Knows mobile genetic elements						
		8	Knows basic methods used in mutation analysis						
		9	Knows basic concepts of gene expression						
		10	Knows basic features of human genome						
21	Course Content:								
	Course Content:								
Week	Theoretical		Practice						
1	Introduction, Description of course m recommended textbooks, brief histor genetics. Basic definitions in genetics	aterials, y of s							
2	Structural features of DNA, types of hereditary substances in living world								
3	Gene types, basic concepts and defi genes, gene penetrance	nition of							
4	Mendelian genetics, Mendel's studies Mendelian principles of inheritance	S,							

1	interactio	ons	ion-an	enc g		Jene												
6	Linkage, Chi-squa genetics	oping and its	and cross applie	ossing cations	J-over, s in													
7	Multi-alle pleiotrop	nes, p cts of	leiotro genes	pic inte S	eractio	ons,												
8	Cytoplas mitochor genomes	nce, s Ioropl	tructur ast DN	e of IA, org	ganel													
9	Mid-term	exam	I															
10	Mutation mutation	Nutations, Gene and chromosomal nutations, mutagenic substances, DNA repair																
11	Mutagen	icity te	esting,															
12	Mobile g organisa elements	Vobile genetic elements, their genome organisations, effects of mobile genetic elements on host genome																
13	General translatic	princip on	oles of	trans	criptio	n and												
14	Introduct and strue	tion to	huma of hum	n gen an ge	etics, c nome	organis	sation											
22	Textbooks, References and/or Other Materials:								1- GENETİK, (Prof.Dr. Mehmet Topaktaş) Nobel yayınları, 2014: ISBN: 978-605-133-712-8. 2- GENETİK ANALİZE GİRİŞ, Onuncu Baskıdan Çeviri (Anthony J.F. Griffiths vd) Palme Yayıncılık, 2014.									
Activites								ſ	Numb	ber		Duration (hour)			Load (hour)			
Theoretical 22 Assesment									14					42.00				
Practicals/Labs									0			0.00			0.00			
	elf study and preperation									14			7.00					
Self stu	udy and p	repera	ition												00.00			
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ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	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 ution Level:			2 low			3 Medium			4 High			5 Very High				