		GEN	IETICS						
1	Course Title:	GENETI	cs						
2	Course Code:	TOHZ10	1						
3	Type of Course:	Compuls	ory						
4	Level of Course:	Short Cy	cle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	3.00							
8	Theoretical (hour/week):	2.00							
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.	İbrahim Çakmak						
15	Course Lecturers:	Doç.Dr. İ	brahim Çakmak						
16	Contact information of the Course Coordinator:	Doç.Dr. İbrahim Çakmak							
17	Website:								
18	Objective of the Course:	To teach characte	students about basic genetic principles and how rs are passed to next generations						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	To gain knowledge about animal and plant cell structure and genetic materials						
		2	To learn how characters are passed to next generations in organisms						
		3	To gain knowledge about the mechanisms of heredity						
		4	To get ideas about gene relations and environmental effects						
		5	To get knowledge about sex –linked genes their passage to next generations						
		6	To learn about polygenes and how their frequencies are calculated						
		7	To see non-nucleus heredity and linkage						
		8	To learn mutations and and the effects of environmental factors						
		9							
		10							
21	Course Content:								
		Co	urse Content:						
Week	Theoretical		Practice						
1	Genetics and Mendel								
2	Cell division and Chromosomes								
3									
4	Dominance and Alell genes								

5	Gene expression and Environmental effects																			
6	Gene interaction and Lethality																			
7	Sex-linked genes and expression																			
8	Repeating courses and midterm exam																			
9	Quantitative genetics																			
10	Population Genetics																			
11	Cyto	plas	mic he	eredity	/															
12	Gen	etic l	inkag	e and	cross	sing-ov	er													
13	Mutations																			
14	Genetics and Environment																			
22	Textbooks, References and/or Other Materials:								Bo Ca Ya Ay Th	Bozcuk, AN. 2005. Genetik. Palme Yaıncılık, Ankara. Campbell, NA., Reece, JB. 2006. Biyoloji. Palme Yayıncılık (Çevirenler: Gündüz ve diğ.), Ankara. Ayala, FJ. 1982. Population and evolutionary genetics. The Benjamin/Cumming Publishing Company, Inc. USA.										
23	Asse	esme	ent																	
TERM L	EAR	NING	ACTI	VITIES	;		R		WE	WEIGHT										
Midtern	n Exa	m					1		40	40.00										
Quiz							0)	0.0	0.00										
Home work-project 0 Activites								0.0 	00 Numb	er		Dura	ition (Total Work Load (hour)						
Contribution of Term (Year) Learning Activities to								40	1 <u>9</u> 0			2.00	2.00 28.00							
Practic	Practicals/Labs									0			0.00	0.00			0.00			
Self stu	alf study and preperation								10	14				1.00			14.00			
Homew	meworks									0				0.00			0.00			
Measu	asurement and Evaluation Techniques Used in the								e (0				0.00						
Field S	Id Studies								(0			0.00	0.00			0.00			
Midtern	iterm exams									1				24.00			24.00			
Others	iers									0				0.00			0.00			
Final E	al Exams									1					24.00					
Total W	tal Work Load															90.00				
Total w	otal work load/ 30 hr									3.00										
ECTS (TS Credit of the Course									3.00										
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ÖK2	()	2	0	0	0	0	0	0	0	0	0	2	0	0	0	0			
ÖK3	()	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0			
ÖK4	(0 0 0 2 0 0 0							0	1	0	0	0	0	0	0	0			

ÖK5	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	3	2	0	2	4	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	2	0	1	0	5	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	Contrib 1 very low ution Level:			2 low			3 Medium			4 High			5 Very High			