		СҮТО	GENETIC							
1	Course Title:	CYTOG	ENETIC							
2	Course Code:	TAR330	6-S							
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	cle							
5	Year of Study:	3								
6	Semester:	6								
7	ECTS Credits Allocated:	3.00								
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	2.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Prof. Dr.	KÖKSAL YAĞDI							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	rse Prof.Dr. Köksal YAĞDI kyagdi@uludag.edu.tr, 294 15 17 ,Uludağ Üniversitesi, Ziraat Fakültesi, 16059, Görükle / Bursa								
17	Website:									
18	Objective of the Course:	Genetic structures of organisms, mechanisms of heredity and plant breeding methods used in the transfer of basic information on the genetic and cytological.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To explain an organism's cell structure, the morphological structures and functions of chromosomes							
		2	To explain the shape of the structure and function of genes and DNA							
		3	To explain and understand the importance of mitosis and meiosis in living creatures							
		4	To explain the variation in cultivated plants, and to take advantage of this variation in engineering applications							
		5	To explain the concept of ploidy and to take advantage of it in plant breeding							
		6	Discuss some basic applications of gene technology							
		7	To explain the origin of some cultivated plants							
		8								
		9								
		10								
21	Course Content:		anna Cantant							
\\/aala	Theoretical	Co	ourse Content:							
	Theoretical The concept and history of cytogene	tic	Practice Calla and arganallas							
2	Structure and function of chromoson genes		Cells and organelles Morphological structure of the chromosome							
3	DNA structure and function		Microscope studies of cells							

4	Sources of variation in plants		Cell Divisions (m	itosis)						
5	Relationships between qualitative ge	nes	Cell Divisions (Meiosis)							
6	Relationships between Quantitative g		Use of molecular markers							
7	Ploidy and autopolyploidies	,	Studies of mitosis for the germination of plants							
8	Course review-Midterm Exam		Repeating courses and midterm exam							
9	Allopolyploidies		Microscope examination of stages of mitosis and							
	, 21		chromosome cou							
10	Aneuploidy and addition-line		Microscope examination of stages of meiosis and chromosome counts							
11	Aneuploidy and substitution lines		Microscope exam chromosome cou	ination of stages of monts	eiosis and					
12	Gene transfer and the use in plant br	eeding	DNA isolation and	D PCR reaction						
13	General information about the origin plants	of some	DNA isolation and	d PCR reaction						
14	Review-Practice exam		Practice exam							
22	Textbooks, References and/or Other Materials:		-Sitogenetik, Sevim Sağsöz.Atatürk .Üni.Yayınları -Sitogenetik, Mehmet Topaktaş, Eyyüp Rencüzoğulları, Nobel Yayınları -Plant Breeding and Cytogenetics. Fred C. Elliot. Michigan state University, Mc Graw- Hill Publ. In the Agri. SciencesInterspecific and Intergeneric Crosses in Cultivated planrs. A Belex Hungarian Academy of Sciences, Martonvaser,							
Activit	es		Number	Duration (ho	ur) Total Work Load (hour)					
Theore	rical		-Sitຊgenetik Ders (Basılmamıs)	Notlari 1 Prof. Dr. Köks	al Yağıdı					
Practic	als/Labs		14	2.00	28.00					
S 23 stu	ტავიფოომხeration		4	2.00	8.00					
Homew	vorks		1	6.00	6.00					
Project	S N Exam	1	40.00	0.00	0.00					
Field S			0	0.00	0.00					
Midtern	n exams. work-project	0	0.00	15.00	15.00					
Others			0	0.00	0.00					
Einal E	xams	2	100.00	20.00	20.00					
	/ork Load				106.00					
\$atales	erGlade/ 30 hr				3.03					
ECTS (Credit of the Course				3.00					
Total			100.00							
Measu	rement and Evaluation Techniques Us	sed in the								
24	ECTS / WORK LOAD TABLE									

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	3	4	4	3	1	1	1	0	0	0	0	0	0	0	0
ÖK2	5	3	5	4	4	3	1	2	0	0	0	0	0	0	0	0

Contrib 1 very low ution Level:			2 low		3 Medium			4 High			5 Very High					
LO: Learning Objectives PQ: Program Qualifications																
ÖK7	5	5	5	5	5	4	3	5	0	0	0	0	0	0	0	0
ÖK6	5	4	5	5	4	3	2	4	0	0	0	0	0	0	0	0
ÖK5	5	4	5	5	4	4	2	4	0	0	0	0	0	0	0	0
ÖK4	5	5	5	5	5	5	3	5	0	0	0	0	0	0	0	0
ÖK3	5	4	4	4	4	3	2	2	0	0	0	0	0	0	0	0