

# CYTOGENETICS IN HORTICULTURE

1	Course Title:	CYTOGENETICS IN HORTICULTURE	
2	Course Code:	BAH3117PDS	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	5	
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:	Non	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. MERYEM İPEK	
15	Course Lecturers:	Doç.Dr.Ahmet İpek	
16	Contact information of the Course Coordinator:	msipek@uludag.edu.tr, 294 1485 Uludag University Agricultural Faculty Horticulture Department 16059 Gorukle Bursa	
17	Website:		
18	Objective of the Course:	To provide basic information how characters are organized in plants at the level of cell genetics, passed to the next generation, what has done and can be done using inheritance in plant breeding. Together with information about the courses in biochemistry and genetics, the normal Mendelian inheritance is taught in the field of horticulture. It is aimed that students learn abnormalities and non Mendelian inheritance used in the current researches and gain breeding information.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Be able to use sources of genetic information
		2	Be able to information about reproduction
		3	Be able to use Mendelian inheritance
		4	Be able to use mutations
		5	Be able to use inheritance facts of agronomical characters
		6	Be able to use Mendelian inheritance information of agronomical characters
		7	Be able to use chromosome manipulation knowledge
		8	Be able to understand maternal inheritance effects
		9	Be able to understand paternal inheritance effects
		10	Be able to understand parental inheritance effects
21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	History of cytogenetics and progress	Search for cytogenetic related articles	
2	Mitotic division and inheritance in cell	Group discussion and drove mitotic division	
3	Meiotic division and inheritance in cell	Group discussion and drove meiotic division	



ÖK5	5	4	3	3	2	1	1	0	1	1	0	0	0	0	0	0	0
ÖK6	5	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	5	3	3	3	2	1	1	0	1	1	0	0	0	0	0	0	0
ÖK8	5	3	3	3	2	1	1	0	0	1	0	0	0	0	0	0	0
ÖK9	5	3	3	3	2	1	1	0	0	1	0	0	0	0	0	0	0
ÖK10	5	3	3	3	2	1	1	0	0	1	0	0	0	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																	
Contrib ution Level:	1 very low			2 low			3 Medium			4 High			5 Very High				