

# PLANT BREEDING

1	Course Title:	PLANT BREEDING
2	Course Code:	SBYS414
3	Type of Course:	Optional
4	Level of Course:	Short Cycle
5	Year of Study:	2
6	Semester:	4
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:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Birol Taş
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	melik@uludag.edu.tr, 02242942352, U.Ü.Teknik Bilimler Meslek Yüksekokulu B Blok-Görükle Kampüsü/Bursa
17	Website:	
18	Objective of the Course:	To teach the methods of mutation, convergens, hybrid breedings, backcrossing, Bulk and pedigree in foreign pollinated and self-pollinated plants
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Having the knowledge about the importance and general principles of plant breeding
	2	Having the knowledge about the methods of breeding in self-inseminated plants
	3	Having the knowledge about the heterosis in foreign in seminated plants and how to make use of it
	4	Having the knowledge about the methods of tissue culture important in terms of breeding
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21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice

1	The importance of plant breeding and genetic principles, the formation of crops			
2	Breeding methods in self inseminated plants, selection breeding and methods of success			
3	Single selection and mass selection			
4	Hybrization and combination breeding			
5	Pedigree and Bulk Methods			
6	Backcross Breeding			
7	Breeding methods in foreign pollinated vegetable			
8	Midterm exam and repeating courses			
9	Heterosis breeding			
10	Methods of obtaining F1 hybrid			
11	Seed production			
12	Midterm exam and repeating courses			
13	Importance of tissue culture in terms of vegetable breeding			
Activites		Number	Duration (hour)	Total Work Load (hour)
22	Theoretical Materials:	Plant Breeding -Prof. Dr. Sezen ŞEHİRALI, Asst Prof.Dr. M. ÖZGEN	2.50	25.00
Practicals/Labs		0	0.00	0.00
23	Self study and preparation	14	1.00	14.00
Homeworks		0	0.00	0.00
Projects		0	0.00	0.00
Field Studies		4	2.00	8.00
Midterm exams		2	10.00	20.00
Others		0	0.00	0.00
Final Exams		1	5.00	5.00
Total Work Load				75.00
Contribution of Term (Year) Learning Activities to Total work load/ 30 hr		50.00		2.50
ECTS Credit of the Course				3.00
Contribution of Final Exam to Success Grade		50.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course				

## 24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	2	0	3	2	0	0	0	0	0	5	0	0	2	0	0	0
ÖK2	2	0	3	2	0	0	0	0	0	5	0	0	2	0	0	0

ÖK3	2	0	3	2	0	0	0	0	0	5	0	0	2	0	0	0
ÖK4	2	0	3	2	0	0	0	0	0	5	0	0	2	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium		4 High		5 Very High							