

PLANT PROPAGATION TECHNICS

1	Course Title:	PLANT PROPAGATION TECHNICS
2	Course Code:	TAR3327PDS
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:	----
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. NAZAN DAĞÜSTÜ
15	Course Lecturers:	---
16	Contact information of the Course Coordinator:	ndagustu@uludag.edu.tr, 224 2941518, U.U. Field Crops Department, Faculty of Agriculture 16059 Görükle Campus Bursa
17	Website:	
18	Objective of the Course:	To gain knowledge, skills and experience about the reproduction and production of field crops
19	Contribution of the Course to Professional Development:	1. Recognizes different plant propagation methods. 2. Suggest the appropriate plant propagation method for different plant species to producers. 3. Demonstrate some plant propagation techniques practically to producers.
20	Learning Outcomes:	
	1	Recognizes different plant propagation methods
	2	Knows the propagation methods of field crops
	3	Suggests the producers of the appropriate plant propagation method for different plant species.
	4	Demonstrate seed propagation techniques practically to producers.
	5	It can produce solutions to the problems faced by the producers during the application of seed propagation techniques.
	6	Recognize vegetatively produced field crops
	7	Have knowledge about the production methods in vegetatively produced field crops
	8	Learn how to set up a potting experiment in a greenhouse
	9	Learns how to analyze and evaluate the trials set up in the greenhouse
	10	Gains experience in how to present the essay that is conducted as a Powerpoint
21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	Introducyion to plant propagation techniques, Definition of plant propagation and general information on this topic	Classification of field crops (Latin names and grouping). Promotion of cool and warm climate cereals and seeds of industrial crops, meadow pasture and forage seeds, medicinal plants in field crops		
2	Classification of all plants included in field crops. Plant propagation techniques in plants. 1. Sexual reproduction, 2. Asexual reproduction	Introduction of seed anatomy and seed structures of seed-grown plants in field crops		
3	What is flower?The structure of the flower, the structure and parts of the flower in angiosperms	Presentation of field crops flowers with visuals		
4	Propagation by seed in field crops, seed formation, seed morphology	To give information about the general appearance of the plants in the field plants with slides		
5	Plant propagation techniques in plants, In vitro plant propagation via tissue culture	Establishing seed germination trials		
6	Why do we propagate field crops?	Determination of germination rate and germination strength values		
7	Germination and seedling formation in plants, seed physiology, factors inhibiting germination	Student presentations I		
8	Plants reproduced generatively and vegetatively in field crops	Student presentations II		
9	Mid term exam	Mid term exam		
10	Dormancy in seed	Student presentations III		
11	Growth hormones I	Student presentations IV		
Activites		Number	Duration (hour)	Total Work Load (hour)
14	Theoretical Manipulation of reproductive biologyvia in vitro tissue culture techniques	Student presentations VII	1.00	14.00
Practicals/Labs		14	2.00	28.00
22	Textbooks, References and/or Other Study and preparation Materials:	10	2.00	20.00
Homeworks		2	2.00	4.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		1	1.00	1.00
Others		14	1.00	14.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Final Exams		1	16.00	16.00
Total Work Load				97.00
Total work load/ 30 hr		0	0.00	3.23
ECTS Credit of the Course				3.00
Final Exam		1	60.00	
Total		3	100.00	
Contribution of Term (Year) Learning Activities to Success Grade		40.00		
Contribution of Final Exam to Success Grade		60.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		Bursa Uludağ University is evaluated according to the principles of the Associate and Undergraduate Education Regulation		
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	2	2	3	2	2	2	2	2	3	0	0	0	0	0	0
ÖK2	2	2	3	3	2	2	2	1	1	1	0	0	0	0	0	0
ÖK3	2	2	2	3	3	3	3	2	2	2	0	0	0	0	0	0
ÖK4	1	2	2	2	2	1	3	3	2	1	0	0	0	0	0	0
ÖK5	2	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0
ÖK6	2	2	2	2	2	2	2	1	1	1	0	0	0	0	0	0
ÖK7	2	2	2	2	3	1	2	2	2	2	0	0	0	0	0	0
ÖK8	2	2	2	2	2	1	2	1	1	1	0	0	0	0	0	0
ÖK9	1	1	1	2	2	2	2	1	1	1	0	0	0	0	0	0
ÖK10	2	2	2	1	1	1	2	2	2	2	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			