	PL	ANT	BREEDING							
1	Course Title: PLANT BREEDING									
2	Course Code:	TAR3325-Z								
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	le							
5	Year of Study:	3								
6	Semester:	5								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0	0							
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	face							
14	Course Coordinator:	Prof. Dr.	KÖKSAL YAĞDI							
15	Course Lecturers:	Doç. Dr.	Esra AYDOĞAN ÇİFCİ							
16	Contact information of the Course Coordinator:	kyagdi@uludag.edu.tr, 294 15 17 , Bursa Uludağ Üniversitesi, Ziraat Fakültesi, 16059, Görükle /Bursa								
17	Website:									
18	Objective of the Course:	To educate engineers who knows world specific standards and manufacturing techniques for species in seed activities and be capable of take-more advanced techniques								
19	Contribution of the Course to Professional Development:	Irse to Learns the techniques of breeding plant species.								
20	Learning Outcomes:									
		1	To explain the concept of plant breeding							
		2	To explain the biology of fertilization in plants and to apply the opportunities for manipulation							
		3	To take advantage of incompatibility system							
		4	To apply the use of male sterility techniques in plant breeding							
		5	To use appropriate methods to develop new plant varieties in self-pollinated crops							
		6	To use appropriate methods to develop new plant varieties in cross-pollinated crops							
		7	Conduct studies of mutation							
		8	o explain the improvement of the new varieties by using ene technology							
		9								
		10								
21	Course Content:									
10/		Co	burse Content:							
	Theoretical	plant	Practice							
1	Definition, importance and history of breeding	·								
2	Pollination and fertilization biology of plants									

3	Allogame and autogame plants																			
4	Incompatability and benefits of plant breeding																			
5	Types and genetic causes of male sterility																			
6	Selection breeeding																			
7	Combination breeding (Methods of pedigree, bulk and bulked progeny)																			
8	Com seec	nbina d des	tion b cent,	reedin back o	g (me cross	thods and co	of sing nverg	gle ence)												
9	Cou	rse re	eview	Midte	rm Ex	am														
10		ducti etic b		hybrid	l bree	ding ar	nd the													
11	Application of hybrid breeding																			
12	Intro	ducti	ion to	mutat	ion br	eeding														
13	Muta	ation	types	and th	neir u	se in pl	ant br	reedin	g											
14	Usage possibilities of genetic engineering in plant breeding studies																			
22 Activit	Materials:									-Bitki Islahı. Prof. Dr. H.R. EKİNGEN. Uludağ Üniver Ders Notları.1988. -Breeding Field Crops. J.M. POEHLMAN.The Avı Publishing Company. Inc. Westport, Connecticut. A. 1985. -Plant Breeding System. A.V. RICHARDS. Departme Agricultural and Environmental Science. University of Newcastle upon TYNE LIK 1997 Number Duration (hour) Total V Load (h							B.d. ent of f /ork			
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	ontribution of Final Exam to Success Grade									00100				1		30.00				
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24	EC	TS /	WO	RK L	OAD	TAB	LE													
25											RNING OUTCOMES TO PROGRAMME JALIFICATIONS									
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ÖK2	ť	5	5	5	5	5	1	1	5	0	0	0	0	0	0	0	0			
ÖK3	ť	5	5	5	5	5	1	1	5	0	0	0	0	0	0	0	0			
ÖK4	ť	5	5	5	5	5	1	1	5	0	0	0	0	0	0	0	0			

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