G	SAMETOGENESIS AN		BRYO DEVELOPMENT IN FRUIT ECIES						
1	Course Title:	GAMET( SPECIES	OGENESIS AND EMBRYO DEVELOPMENT IN FRUIT						
2	Course Code:	BAB6013	3						
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	3.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to f							
14	Course Coordinator:	Prof. Dr.	ÜMRAN ERTÜRK						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	Telefon: Adres: U	umrane@uludag.edu.tr 0 224 2941471 ludağ Üniversitesi, Ziraat Fakültesi, Bahçe Bitkileri Bölümü, Kampüsü, 16059 Nilüfer, Bursa						
17	Website:								
18	Objective of the Course:								
19	Contribution of the Course to Professional Development:								
	Professional Development:	1	Learn flower arrangements in fruit species						
	Professional Development:	1 2	Learn flower arrangements in fruit species  The importance of pollination and fertilization in fruit behavior						
	Professional Development:		The importance of pollination and fertilization in fruit						
	Professional Development:	3 4	The importance of pollination and fertilization in fruit behavior						
	Professional Development:	2 3 4 5	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility						
	Professional Development:	2 3 4 5	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up						
	Professional Development:	2 3 4 5 6 7	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up						
	Professional Development:	2 3 4 5 6 7 8	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up						
	Professional Development:	2 3 4 5 6 7 8 9	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up						
20	Professional Development: Learning Outcomes:	2 3 4 5 6 7 8	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up						
	Professional Development:	2 3 4 5 6 7 8 9	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up a fruit orchard						
20	Professional Development:  Learning Outcomes:  Course Content:	2 3 4 5 6 7 8 9	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up a fruit orchard  urse Content:						
20 21 Week	Professional Development:  Learning Outcomes:  Course Content:  Theoretical	2 3 4 5 6 7 8 9	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up a fruit orchard						
20 21 Week 1	Professional Development:  Learning Outcomes:  Course Content:  Theoretical Flower Formation in Fruit Species	2 3 4 5 6 7 8 9 10	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up a fruit orchard  urse Content:						
20 21 Week 1 2	Professional Development:  Learning Outcomes:  Course Content:  Theoretical Flower Formation in Fruit Species Male Gamet Formation (Pollen De	2 3 4 5 6 7 8 9 10	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up a fruit orchard  urse Content:						
20 21 Week 1	Professional Development:  Learning Outcomes:  Course Content:  Theoretical Flower Formation in Fruit Species	2 3 4 5 6 7 8 9 10	The importance of pollination and fertilization in fruit behavior  Learn about conflict and infertility  Learn factors affecting gamet formation factors  Learn the importance of variety selection when setting up a fruit orchard  urse Content:						

5	Physiological Factors Affecting Ma Female Gamet Formation	ale and									
6	Powder and Pollen Stigma Interact	ction									
7	Pollen Slaughter, Tube Developm Fertilization	ent and									
8	Infertility in fruit species										
9	Incompability in fruit species										
10	Endosperm and embryo developn	nent									
11	Apomixis and parthenocarpy										
12	Development of fruit										
13	Discussion of research topics										
14	Discussion of research topics										
22	Textbooks, References and/or Oth Materials:	Heslop – Harrison, J. 1972.Sexuality of Angiosperms. (In F.C.Steward. Editor) Plant Physiology. Academic Pres New York and London 133 – 289. Hartmann, F.O. and Howlett, H.1954. Fruit Setting of the Delicious Apple. Ohio Agr. Exp. Sta. Res. Bull. 745, 64 p. Polito, V.S., 1985. Flower Differentiation and Pollination. In:D.E. Ramos, Editor, Walnut Orchard Management, 81-86. Univ. Of California, Cooperative Extention, USA. Mckay, J.W. 1947. Embriyology of pecan. J.Agr. Res. 263-283. Ayfer, M. 1967. Antep Fistiğinda Megasporogenesis, Megagametogenesis Embriyogenesis ve Bunlarda Meyve									
Activit	tes		Nur	nber		Duration	on (hour)	Total W Load (h			
Theore	ical		TPUQISI	ning.214	Э.	3.00		42.00			
Practic	als/Labs		0			0.00		0.00			
Self stu	dy and preperation		14			5.00		70.00			
Homew			4			10.00		40.00			
Project	S	R	0			0.00		0.00			
Field S	tudies		0			0.00		0.00			
Ωkd <del>∛</del> err	n exams	0	0.00			0.00		0.00			
Others			0			0.00		0.00			
Final E	Xams	1	100.00			2.00		2.00			
Total V	Vork Load							154.00			
Conatrib	www.fotoatd730mh(Year) Learning Acti	0.00		5.13							
	Credit of the Course						5.00				
	oution of Final Exam to Success Gr	100.00									
Total			100.00								
Measu Course	T										
24	ECTS / WORK LOAD TABL	_E									
	•										
25	CONTRIBUTION			OUTO ICATIO		TO P	ROGRAN	ИМЕ			

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	4	4	3	4	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	4	3	3	3	0	0	0	0	0	0	0	0	0	0	0

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