SOILLESS AGRICULTURAL										
1	Course Title:	SOILLESS AGRICULTURAL								
2	Course Code:	PSBS416								
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):	1.00								
9	Practice (hour/week):	2.00								
10	Laboratory (hour/week):	0	0							
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Öğr. Gör. Dr. PAKİZE ÖZLEM KURT POLAT								
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.								
16	Contact information of the Course	Öğr. Gör. Dr. P. Özlem KURT								
	Coordinator:	ozlemkurt@uludag.edu.tr								
		Orthorn								
		Orhangazi Yeniköy Asil Çelik MYO, Park ve Bahçe Bitkileri Bö Peyzaj ve Süs Bitkileri Yetiştiriciliği Programı								
17	Website:									
18	Objective of the Course:	development and the importance of hydroponics, grown in soilless horticulture products, Turkey and the implementation status of hydroponic culture in the world, encountered in aquaculture in the soil problems and soilless cultivation reasons for the change, the intended use of soilless agriculture, the advantages of hydroponics, the disadvantages of soilless agriculture, establishment of hydroponic culture and implementation , soilless culture methods, growing media used in soilless cultivation, nutrient solutions used in nutrition and their preparation, macro and micronutrient balance, pH. EC.								
19	Contribution of the Course to Professional Development:	Fundamental information will be given on soilless agricultural practices developed in order to eliminate problems arising from soil in greenhouse cultivation and to obtain higher quality and higher yield under controlled conditions.								
20	Learning Outcomes:									
		1	To have knowledge about past, present and future of soilless agriculture							
		2	To know the definition, advantages and disadvantages of soilless agriculture							
		3	To be able to learn the possibilities of soilless agriculture in greenhouses and the types of soilless agriculture							
		4	Learning the preparation and calculation of nutrient solutions used in soilless agriculture							
		5								
		6								
		7								
		8								

		9									
		10									
21	Course Content:										
	Course Content:										
Week	Theoretical		Ρ	ractice							
1	The definition of soilless culture, histo status in the world and Turkey	ory and									
2	Reasons why soilless agriculture find use in greenhouse cultivation	ls wide									
3	Advantages and disadvantages of so agriculture	oilless									
4	Soilless cultivation techniques and classification										
5	Media used in solid medium techniqu their properties	le and									
6	Preparation of greenhouse for soilles agriculture	S									
7	Water culture methods used in soille agriculture	SS									
8	Water culture methods used in soille agriculture (cont.)	SS									
9	Comparison of solid culture and wate methods	er culture									
10	Definition of nutrients to be used in s	oilless									
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Theore	in the contraction of the contra		Γ	14	1.00	14.00					
Practica	als/Labs		-	14	2.00	28.00					
Self4stu	Wydenodf poepgeateda ted to soilless agri	culture	Г	1	8.00	8.00					
Homew	vorks			0	0.00	0.00					
Project	Materials:		Т	arım). Ege Üniversites	sitesi Zinaat Fakültesi Yayınları No:						
Field S	tudies			0	0.00	0.00					
Mi dfe rn	Assesment			1	20.00	20.00					
Others				0	0.00	0.00					
FinaleFi	ňዊያ§m	1	4	p <u>1</u> 00	20.00	20.00					
Total W	Vork Load					110.00					
Hotal ev	wikload 30 hr	0	0.	00		3.00					
ECTS (Credit of the Course					3.00					
Total		2	1(00.00							
Contrib Succes	oution of Term (Year) Learning Activitions Grade	es to	40.00								
Contrib	oution of Final Exam to Success Grade	Э	60.00								
Total			100.00								
Measur Course	rement and Evaluation Techniques Us	sed in the	Measurement and evaluation is carried out according to the principles of Bursa Uludag University 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	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	3	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	3	3	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	4	3	4	4	0	0	0	0	0	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				