

PROTECTED VEGETABLE CULTIVATION

1	Course Title:	PROTECTED VEGETABLE CULTIVATION	
2	Course Code:	BAH3102	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	6	
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:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. NURAY AKBUDAK	
15	Course Lecturers:	Doç.Dr. Nuray AKBUDAK	
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi Ziraat Fakültesi Bahçe Bitkileri Bölümü Görükle Kampusu - Bursa Telefon: 224-2941486 E-posta: nakbudak@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	To introduction to production in greenhouses, production techniques in green houses, fine tuning of growing condition in greenhouses.	
19	Contribution of the Course to Professional Development:	Greenhouse has made the promotion of great importance for Turkey and greenhouse vegetable cultivation. A basic professional awareness and knowledge is provided.	
20	Learning Outcomes:		
		1	Understand how to grow summer vegetables in greenhouses
		2	Understand how to grow vegetables in tunnels
		3	Selection of species and cultivars according to growing seasons
		4	Seedling production
		5	Application of practical growing techniques
		6	Solve problems during production
		7	Controlling greenhouse conditions
		8	Understand and apply new growing techniques
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Greenhouse Vegetable Production in the World and in Turkey	Selection of students working groups and establishment of tunnels	
2	Low and High Plastic Tunnels	Introduction of greenhouse parts	

3	Classification of greenhouses and factors affecting site selection of the greenhouse	Analysis of growing conditions and soil preparation in greenhouses
4	Greenhouse structure elements and regulating greenhouse air	Seed sowing
5	Soil tillage, irrigation and fertilization in greenhouses	Seedling grafting in vegetables
6	Growing tomatoes in the greenhouse	Production under tunnels
7	Growing pepper in the greenhouse	Hanging of plants in greenhouse
8	Growing eggplant in the greenhouse	Pruning in vegetables
9	Growing cucumber in the greenhouse	Technical visit to greenhouses in the region
10	Pruning techniques for cucumber and other vegetables	Pollination and application plant growth regulators
11	Growing squash in the greenhouse	Harvest
12	Growing melon and watermelon in the greenhouse	Presentation of results
13	Growing beans in the greenhouse	Organik vegetable production in greenhouses.
14	Growing lettuce in the greenhouse	Soilless culture

22	Textbooks, References and/or Other Materials:	Tüzel, Y. ve Gül, A. 2008. Seralarda İyi Tarım Uygulamaları. Tıbyan Yayıncılık, 172 s. Sevgican, A. 1999. Örtüaltı Sebzeçiliği (Topraklı Tarım). Ege Univ. Zir. Fak. Yay. No :528, İzmir, 302 s. Hanan, J.J. 1998. Greenhouses. Advanced Technology for Protected Horticulture. CRC Press Press LLC.
----	---	--

Activities		Number	Duration (hour)	Total Work Load (hour)
23	Theoretical Assessment	14	1.00	14.00
Practicals/Labs		14	2.00	28.00
Self study and preparation		10	1.00	10.00
Homeworks		5	2.00	10.00
Quiz		0	0.00	0.00
Projects		0	0.00	0.00
Field Studies		14	1.00	14.00
Final Exam		1	2.00	2.00
Midterm exams		0	0.00	0.00
Others		0	0.00	0.00
Contribution of Term (Year) Learning Activities to Final Exams		40.00	12.00	12.00
Total Work Load				90.00
Contribution of Final Exam to Success Grade		3.00		3.00
Total work load/ 30 hr		40.00		3.00
ECTS Credit of the Course				3.00

Measurement and Evaluation Techniques Used in the Course		They carry out a midterm, a final and a project within the scope of the application.
--	--	--

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	5	4	4	2	3	1	3	1	2	2	0	0	0	0	0	0
ÖK2	5	4	4	2	3	1	3	1	2	2	0	0	0	0	0	0
ÖK3	5	2	2	3	1	1	1	1	1	1	0	0	0	0	0	0

ÖK4	5	4	3	4	1	1	2	1	1	1	0	0	0	0	0	0
ÖK5	5	5	3	4	1	1	2	1	1	1	0	0	0	0	0	0
ÖK6	5	5	3	4	1	1	2	1	1	1	0	0	0	0	0	0
ÖK7	5	5	3	4	1	1	2	1	1	1	0	0	0	0	0	0
ÖK8	5	5	4	4	1	1	2	1	1	1	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			