GROWING OF CUT FLOWER

1	Course Title:	GROWING OF CUT FLOWER	
2	Course Code:	PSBS303	
3	Type of Course:	Optional	
4	Level of Course:	Short Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr. Gör. Dr. YILMAZ DORUK	
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretim elemanları.	
16	Contact information of the Course Coordinator:	Dr.Yılmaz DORUK Teknik Bilimler MYO-Görükle Kampüsü 02242972374 yzdoruk@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	The aim of this course is to help the students to recognize cut flowers(Carnation,Cut Chrysanthemums,Roses,Gerberas,Lisianthus,Cut Antirrhinum,Gypsophilla Tulipa, Gladiolus, Freesia,Lilium, Alstroemeria,Narcissus,Solidago, Iris and Hyacinthus), comprehend the latest techological developments, understand the basics of multiplication and give the ability to design realize and solve the problems of production and to make them understand the importance of quality, postharvest storage and marketing of cut flowers.	
19	Contribution of the Course to Professional Development:	To increase professional knowledge and skills in the subjects related to this course	
20	Learning Outcomes:		
		1	Being able to explain the economic importance of some cut flowers
		2	Being able to comrehend the relationship between the future proepects of sector and production (desing)
		3	Being able to apply the propagation of cut flowers
		4	Being able to learn the application of modern Technologies in cut flowers .
		5	Being able to have a skill about the problem solving.
		6	Carnation,Cut Chrysanthemums,Roses,Gerberas,Lisianthus,Cut Antirrhinum and Tulipa, Gladiolus, Freesia,Lilium, Alstroemeria,Narcissus, Iris,Hyacinthus, Solidago and Helianthus cultivation(History, cllassification, propagation, soil preparation, growing media, nutrition and fertilization, transplanting. botanical information, ecological demonds Plant culture, insects, diseases, phsiological disorders, postharvest handling, harvesting, postharvest care etc.)
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21	Course Content:

	Course Content:	
Week	Theoretical	Practice
1	Cut flower sector and the importance	
2	Carnations cultivation.Classification, botanical information ecological demonds, Propagation/plants culture, harvest,storage and marketing.	
3	Cut flower production of Anthurium growing.	
4	Rose cultivation (growing media, nutrition and fertilization, transplanting, watering, temperature, light, pruning,harvesting, postharvest handling)	
5	Gypsophilla cultivation(classification, propagation, ecological requirements, growing media, nutrition and fertilization, transplanting, harvest , postharvest care,insects, diseases)	
6	Cut chrysanthemum cultivation (soil preparation, planting ,plant culture, additional lighting,darkening harvest,postharvest care)	
7	Gerbera cultivation(classification, propagation, ecological requirements, planting, harvest, postharvest care,insects, diseases)	
8	Course review and Mid-term exam	
9	Cut flower production of Antirrhinum (Snapdragon flower) growing.Cut flower growing.Natural disease cultivation(classification, propagation, ecological requirements, growing media, nutrition and fertilization, care,insects, diseases).Cut flower production of Solidago growing.	
10	Cut flower production of Eustoma (Lisianthus) growing.Cut flower growing.Natural disease cultivation(classification, propagation, ecological requirements, Propagation, growing media, nutrition and fertilization, corm planting, watering, temperature, light, pruning,harvesting, postharvest handling, harvest,storage,insects,diseases and marketing.)	
12	Tulipa cultivation (Classification, ecological requirements, Propagation, growing media, nutrition and fertilization, bulb planting, watering, temperature, light, pruning,harvesting, postharvest handling, harvest,storage insects,diseases ,and marketing.)	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	1	5.00	5.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	5.00	5.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

13	Gladiolus cultivation (Classification, ecological requirements, Propagation, growing media, nutrition and fertilization, corm planting, watering, temperature, light, pruning,harvesting, postharvest handling, harvest,storage insects,diseases and marketing.).Cut flower production of Iris and Hyacinthus growing.	
14	Lilium cultivation ((Classification, ecological requirements, Propagation, growing media, nutrition and fertilization, corm planting, additional lighting,darkening ,watering, temperature, light, pruning,harvesting, postharvest handling, harvest,storage, insects,diseases and marketing.) .Cut flower production of Alstroemeria growing.	

22	Textbooks, References and/or Other Materials:	1) Forcing Flower Bulbs, International Flower Bulb Center, Holland. 2)Mengüç, A., Süs Bitkileri (Soğanlı, Yumrulu, Rizomlu Bitkilerde Üretim, Doku Kültürleri ile Üretim), Anadolu Üniversitesi Yayınları No: 904, Eskişehir, 1996. 3) Korkut, A.B. Çiçek Yetiştiriciliği, Hasat Yayınları, İstanbul, 1998. 4) Larson, R.A. Introduction to Floriculture. Academic press. 1980. 5) Mercurio, G., 2007. Cut rose cultivation around the world. First Editon, 256p, Schreurs, The Nedherlands. 6) Mercurio, G., 2002. Gerbera Cultivation in Greenhouse. Schrerurs, 206p, Italy. 7) Karagüzel, O., A.B. Korkut, B. Özkan, F.G. Çelikel, S. Titiz 2010. Süs bitkileri üretiminin bugünkü durumu, geliştirilme olanakları ve hedefleri. Ziraat Mühendisliği VII. Teknik Kongresi. Bildiriler

23 Assesment

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	30.00
Quiz	0	0.00
Home work-project	1	10.00
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		Measurement and evaluation is carried out according to the priciples 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**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	0	3	0	0	0	4	0	3	0	5	0	0	0	0	0	0
ÖK2	0	2	0	0	0	3	0	3	0	4	0	0	0	0	0	0

ÖK3	0	3	0	0	0	3	0	2	0	3	0	0	0	0	0	0
ÖK4	0	3	0	0	0	2	0	4	0	3	0	0	0	0	0	0
ÖK5	0	2	0	0	0	3	0	4	0	3	0	0	0	0	0	0
ÖK6	0	3	0	0	0	3	0	3	0	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**