HORTICULTURAL AND GREENHOUSE MECHANIZATION

1	Course Title:	HORTICULTURAL AND GREENHOUSE MECHANIZATION
2	Course Code:	BSM5028
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	No
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Halil Ünal
15	Course Lecturers:	Yok
16	Contact information of the Course Coordinator:	Prof. Dr. Halil ÜNAL e-posta : hunal@uludag.edu.tr Telefon: 0 224 2941607 Adres: Bursa Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA
17	Website:	
18	Objective of the Course:	Mechanization practical to the horticultural and greenhouse agriculture which is used new technical and machinery is to provide the theoretical and practical. Fruit and vegetable cultivation to horticultural breeding,and greenhouse vegetable and ornamental plant breeding mechanization methods respects environment may experience problems with the systematic approach of showing, analytical ability, project for the future, a common thought and evaluation skills of planning estimates.
19	Contribution of the Course to Professional Development:	Mechanization practical to the horticultural and greenhouse agriculture which is used new technical and machinery is to provide the theoretical and practical learns.
20	Learning Outcomes:	

	1	Mechanization practical to the horticultural and greenhouse agriculture which is used new technical and machinery is to provide the theoretical and practical learns.
	2	Fruit and vegetable cultivation to horticultural breeding,and greenhouse vegetable and ornamental plant breeding mechanization methods, student may face problems are systemic approach.
	3	Analytical thinking towards the future, prediction sets to make learns.
	4	Project planning and evaluation skills to obtains.
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21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Fruit and vegetable breeding to the horticultural farming applied mechanization stage	
2	Fruit and vegetable breeding to the horticultural farming applied mechanization stage	
3	Tillage machinery, sowing, planting and fertilizing machines	
4	Tillage machinery, sowing, planting and fertilizing machines	
5	Plant keeping and spraying machines	
6	Plant keeping and spraying machines	
7	New techniques and latest developments used horticultural products harvesting.	
8	New techniques and latest developments used horticultural products harvesting.	
9	The definition and importance of greenhouse, greenhouse systems and planning	
10	Ventilation of greenhouses, heating and shadowing systems	
11	Ventilation of greenhouses, heating and shadowing systems	
12	applications, greenhouse irrigation systems	
13	applications, greenhouse irrigation systems	
14	Materials.	

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	4.00	56.00
Homeworks	14	5.00	70.00
Projects	1	14.00	14.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	2.00	2.00
Total Work Load			184.00
Total work load/ 30 hr			6.13
ECTS Credit of the Course			6.00

Makinaları ilkeleri. T.Ü. Tekirdağ Z.F., Ders Kitabı: 29. Fakülte Matb., İstanbul.

Yöntemleri, Ç.Ü. Z.F. Tarımsal Mekanizasyon Kurs

3.Ünal, H., E.Işık ve K.Alibaş, "Zeytin üretiminde sonrası mekanizasyon uygulamaları." Bahçe Dergisi, 34(1):193-203.

5.Yağcıoğlu K., 2005 Sera Mekanizasyonu. E.Ü. Ziraat Fakültesi Yayınları No: 562, İzmir.

23	Assesment

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	14	40.00
Final Exam	1	60.00
Total	15	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 principles of Bursa uludag University Graduate 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	5	5	5	5	4	4	5	4	4	5	4	4	0	0	0	0
ÖK2	5	5	5	5	4	4	5	4	4	5	4	4	0	0	0	0
ÖK3	5	5	5	5	4	4	5	4	4	5	4	4	0	0	0	0
ÖK4	5	5	5	5	4	4	5	4	4	5	5	4	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**