INTERNAL FARM MECHANIZATION

1	Course Title:	INTERNAL FARM MECHANIZATION
2	Course Code:	BSM4812
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	8
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	1.00
10	Laboratory (hour/week):	0
11	Prerequisites:	none
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:	Greenhouse heating systems, ventilation, shading, and moistened systems, introducing to the calculation methods on the subject.
19	Contribution of the Course to Professional Development:	Learns the types of greenhouses and the classification of greenhouses, the need for heat, ventilation, lighting and cooling of greenhouses. Learns the tools of milking, milk cooling, feeding, manure removal, animal welfare in the field of animal husbandry.
20	Learning Outcomes:	
	1	Types and classification of greenhouses to learn
	2	Calculate the heat requirement of greenhouses
	3	Heat conduction resistance of greenhouse coverings (d / ?)
	4	Combi Heating method to recognize
	5	Electrically heating method to recognize
	6	Understanding the water evaporating cooling system
	7	Recognition of the cooling system waterfall
	8	Stable mechanization of learning
	9	Fertilizer Cleaning mechanization of learning
	10	Mechanization milking grip
21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Greenhouse Mechanization	Sample Solution
2	Greenhouse Heating Plants	Sample Solution
3	Greenhouse Heating Plants	Sample Solution
4	Greenhouse Heating Plants	Sample Solution

5	Greenhouse Heating Plants	Sample Solution
6	Greenhouse Cooling Systems	Sample Solution
7	Midterm Exam, repetition of course	Sample Solution
8	Greenhouse Cooling Systems	Sample Solution
9	Greenhouse Ventilation Systems	Sample Solution
10	Mechanization Stable	Sample Solution
11	Transmission and take systems	Sample Solution
12	Mechanization of Manure Removal	Sample Solution
13	Mechanization of milking	Sample Solution
14	Mechanization of milking	Sample Solution

22	Textbooks, References and/or Other Materials:	1. YAVUZCAN, G., 1983, İçsel Tarım Mekanizasyonu, A.Ü. Ziraat Fakültesi Yayınları, Yayın No: 871, ANKARA. 2.YAVUZCAN,G., 1983. Tarımda Doğal Enerji Kaynakları, A.Ü. Ziraat Fakültesi Yayınları, Yayın No: 876, ANKARA. 3.SIDAL, C., 1962, Isıtma ve Havalandırma Tekniği, MEB Yayınları, İSTANBUL 4. ÜNAL, H. 2017. Tarım İşletmelerinde İÇsel Tarım Mekanizasyonu Uygulamaları, B.U.Ü. Z.F. Biyosistem Müh. Böl. (Basılmamış Ders Notu). 119 s.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Theoretical	1	60.00
Final Exam	1	40.00
Contribution of Term (Year) Learning Activities to Success Grade	60	
Contribution of Final Exam to Success Grade	40	
Measurement and Evaluation Techniques Used in the Undergraduate Education Regulation:	Measurement and evaluation is carried out according to	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	1.00	14.00
Self study and preperation	1	1.00	1.00
Homeworks	3	9.00	27.00
Projects	1	10.00	10.00
Field Studies	1	1.00	1.00
Midterm exams	1	1.00	1.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			92.00
Total work load/ 30 hr			3.07
ECTS Credit of the Course			3.00

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	3	2	3	3	5	4	3	2	4	0	0	0	0
ÖK2	3	3	3	4	2	3	3	4	5	4	3	3	0	0	0	0
ÖK3	2	3	3	3	5	3	4	5	4	4	3	5	0	0	0	0
ÖK4	4	4	4	3	5	4	2	4	5	5	5	4	0	0	0	0

ÖK5	4	5	4	3	5	3	4	4	3	3	4	4	0	0	0	0
ÖK6	5	5	3	3	3	4	4	3	3	4	2	4	0	0	0	0
ÖK7	4	5	4	3	5	5	4	5	3	3	4	4	0	0	0	0
ÖK8	5	4	4	2	4	4	3	4	2	4	4	4	0	0	0	0
ÖK9	3	5	5	4	5	4	4	4	4	4	5	4	0	0	0	0
ÖK10	3	4	4	4	4	3	3	4	3	3	3	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**