DESIGN OF CULTIVATION MACHINERY

1	Course Title:	DESIGN OF CULTIVATION MACHINERY	
2	Course Code:	BSM6015	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	2.00	
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. 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:	Fertilization, hoeing and dilution methods used in the growing period of the plant and the design and use of all kinds of maintenance machines used in the application of these methods, To gain knowledge and skills about repairs, adjustments and maintenance.	
19	Contribution of the Course to Professional Development:	Have knowledge about the design, use, maintenance and adjustment of all kinds of maintenance machines in herbal production.	
20	Learning Outcomes:		
		1	To be able to recognize the fertilization and maintenance works performed during the cultivation of different agricultural products and the machines used in these works,
		2	To be equipped with information about the design, use, maintenance and adjustment of all kinds of maintenance machines in herbal production.
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21	Course Content:		
	Course Content:		
Week	Theoretical		Practice

1	The aim of the lesson, how the lesson will be conducted, the type of the exam, the responsibilities of the students in order to obtain the expected benefit from the lesson will be explained.	General introduction of maintenance machines
2	To have knowledge about the basic features of maintenance technique, fertilizing and maintenance machines in order to learn the basic concepts.	Problems for learning basic concepts and their solutions and general studies on them
3	Main parts and designs of cultivators, harrows and weed pickers,	Introducing the parts of hoeing machines, teaching their standards, Information about machine design.
4	Hoeing machines and machines used in hoeing,	Basic problems encountered and their computerized solutions,
5	Motor tiller main organs, maintenance, repair and settings,	Project work for computerized designs of grain planting machines,
6	Basic information about soil mills, rotovators and rototillers,	Continuing the project work after basic information,
7	Throat filling devices and controlled dilution machines main organs and parts,	Software development studies for the project,
8	Fertilizer machines, fertilizer norm, farm manure machines,	Software development studies for the project,
9	Granular fertilizer spreader machines, sherbet tanks and sherbet spreader machines,	Software development studies for the project,
10	Writing the project work,	Software development studies for the project,
11	Writing and finishing the project work,	Software development studies for the project,
12	Material preperation	Software development studies for the project,
13	Project presentation,	Software development studies for the project,
14	Project presentation,	Software development studies for the project,

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preparation	0	0.00	0.00
Homeworks	3	42.00	126.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Quiz	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	3.00	3.00
Final Exam	1	60.00	
Total Work Load			185.00
Total work load/ 30 hr			6.17
Contribution of Term (Year) Learning Activities to		40.00	
ECTS Credit of the Course			6.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm exams	0	0.00
Quiz	0	0.00
Final Exam	1	60.00

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	4	4	4	3	4	5	4	4	4	4	3	3	0	0	0	0

ÖK2	5	5	5	5	3	4	4	3	4	4	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**