

DESIGN OF PLANT PROTECTION MACHINERY

1	Course Title:	DESIGN OF PLANT PROTECTION MACHINERY
2	Course Code:	BSM6012
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	No prerequisites
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. KAMİL ALİBAŞ
15	Course Lecturers:	Yok
16	Contact information of the Course Coordinator:	e-posta : alibas@uludag.edu.tr Telefon: 0 224 2941601 Adres: Uludağ Üniversitesi, Ziraat Fakültesi, Biyosistem Mühendisliği Bölümü, Görükle Kampüsü, 16059, Nilüfer/BURSA
17	Website:	
18	Objective of the Course:	Some Plant Protection Machinery issues is given in more details in this course which is not given in Undergraduate education, After this lesson, students solve same problems of Plant Protection Machinery
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Learns of Plant Protection systems, learns to machines used in plant protections machinery which usu of chemical
	2	Should be aware that all parts of agricultural machines of war. Setting and maintenance of agricultural machinery should be able to battle
	3	Agricultural machines of war able to do the calibration
	4	Agricultural able to do calculations for Plant Protection Machinery
	5	Plant Protection Machinery able to make calculations of the pump power
	6	Adversities faced by the development of machines able to make designs
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Methods of Plant Protection	Solved problems and practise about the subject

2	Classification of plant protection machines. Pulverization technique	Solved problems and practise about the subject
3	Pulverization technique	Solved problems and practise about the subject
4	Sprayers (tank, mixer and pump)	Solved problems and practise about the subject
5	Choice of Sprayers pump, air tank, pressure regulator and pressure gauges	Solved problems and practise about the subject
6	Sprayers used pipe, hose, valves and filters	Solved problems and practise about the subject
7	Sprayers used pipes and suspension systems, flow-rate and dosing systems	Solved problems and practise about the subject
8	Spreyers nozzles	Solved problems and practise about the subject
9	Spreyers nozzles	Solved problems and practise about the subject
10	Types and working principles of sprayer	Solved problems and practise about the subject
11	Foggers, electrostatic charging technique	Solved problems and practise about the subject
12	Pollinators, and practitioners of micropellets	Solved problems and practise about the subject
13	Fumugasyon and soil stebilizations	Solved problems and practise about the subject
14	Calibration of spraying machines	Solved problems and practise about the subject

22	Textbooks, References and/or Other Materials:	-Prof. Dr. İbrahim Çilingir ve Doç. Dr. Engin Dursun 2002. Bitki Koruma Makinaları. A.Ü. Ziraat Fakültesi Yayınları No:1531, Ders kitabı:484. ISBN 975-482-574-2 (248 s). -Prof. Dr. Abdülkadir Yağcıoğlu 1993. Bitki Koruma Makinaları Ege. Ü. Ziraat Fakültesi Yayınları No:508. ISBN 975-483-220-X (338 s). -Prof. Dr. Emin Güzel 1998. Hasat-Harman İlkeleri ve
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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	10	6.00	60.00
Homeworks	6	4.00	24.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	0.00	0.00
Final Exam	1	100.00	0.00
Others	0	0.00	0.00
Final Exams	1	40.00	40.00
Contribution of Term (Year) Learning Activities to Total Work Load	0.00		180.00
Contribution of Final Exam to Success Grade	100.00		6.00
ECTS Credit of the Course			5.00

Measurement and Evaluation Techniques Used in the Course	
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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	3	2	2	2	4	1	1	5	2	2	2	4	0	0	0	0
ÖK2	3	2	2	2	4	1	1	5	2	2	2	4	0	0	0	0
ÖK3	3	2	2	3	4	1	1	5	2	2	2	4	0	0	0	0

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