

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Design of Plant Protection Machines							
Course Code		ZTM534		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	Credit 8 Workload 197 (Hours) Theory 3		3	Practice	0	Laboratory	0		
Objectives of the Course Understanding the proces plant protection machines									ction,
Course Content		steps of the p	roject identific	ation and de	sign feature	es, features that	at require cre	rayer design the b eativity, determina noice of materials	tion,
Work Placeme	nt	N/A							
Planned Learning Activities and Teaching I		Methods	Explanation Problem So		tion), Discussio	on, Case Stu	udy, Project Based	d Study,	
Name of Lectu	rer(s)								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination		1	20
Final Examination		1	60
Project		1	20

Recommended or Required Reading

1	Yağcıoğlu, A., (1993) Plant Protection Machines, E.Ü. Ziraat Fakültesi Ofset Basımevi.
2	Cilingir, İ., Dursun, E., (2002)Plant Protection Machines. Ziraat Fakültesi Yayın No: 1531

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Structural features and classification of plant protection machines
2	Theoretical	Plant protection machinery use features
3	Theoretical	Basic steps in the design of sprayer
4	Theoretical	Description of the project
5	Theoretical	Design features
6	Theoretical	Determining the features that require creativity
7	Intermediate Exam	Midterm exam
8	Theoretical	Ways to experts on the subject of applications
9	Theoretical	Literature, and information-gathering
10	Theoretical	Preparation of the project scheme
11	Theoretical	Material selection
12	Theoretical	Cost elements
13	Theoretical	Standardization
14	Theoretical	Adjustment and maintenance
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	3	84
Assignment	14	0	2	28
Project	1	0	25	25
Reading	14	0	2	28
Midterm Examination	1	12	1	13



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Final Examination	1		18	1	19
Total Workload (Hours)					197
[Total Workload (Hours) / 25*] = ECTS 8					8
*25 hour workload is accepted as 1 ECTS					

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I parning	Outcomes
Learning	

 Learning design philosophy Understanding the philosophy of chemical and integrated pest management Understanding the technique and the characteristics of spraying Understanding the theory of the formation of drops The basic engineering concepts to integrate plant protection practices. 	Learn	Ing Outcomes	
 3 Understanding the technique and the characteristics of spraying 4 Understanding the theory of the formation of drops 	1	Learning design philosophy	
4 Understanding the theory of the formation of drops	2	Understanding the philosophy of chemical and integrated pest management	
	3	Understanding the technique and the characteristics of spraying	ł
5 The basic engineering concepts to integrate plant protection practices.	4	Understanding the theory of the formation of drops	
	5	The basic engineering concepts to integrate plant protection practices.	

Programme Outcomes (Agricultural Machinery Master)

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1	Identification, formulation and solving the problems in the field of Agricultural Machinery
2	The ability to use modern engineering tools and techniques
3	The ability to use the information, which is obtained by following the scientific and technological developments, in the academic life and practice.
4	The ability to evaluate multi-faced relationship between them by understanding interaction among agricultural technology, soil, plants and animals
5	Professionalism and ethical responsibility
6	The ability to work in disciplinary and multi-disciplinary teams
7	The ability to communicate effectively
8	The ability to do research for accessing information and to use data base and other resources
9	The ability to do analyze and interpret the experimental results and the design of experiment
10	The ability to identify and interpret knowledge of current professional issues and events
11	The ability to get aware the universal and social effects of engineering solutions and applications
12	Accordance with the requirements of science and technology, ability to use scientific knowledge creative

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	5		5		
P2	5	4	4	3	
P3	5		4		
P4	5				
P5	5				
P8				4	
P9			4		
P10					5
P12	5				

