

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	lorticultural Crops								
Course Code		ZTM509		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 7		Workload	174 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course The aim of this course is to which efects on harvesting vegetable.									
Shaki Pickin harve Harve		Shaking Para Picking Machi harvest. Casu Harvest with A	meters. Auxili ines. Citrus, s alties, Damag Auxiliary Equip	ary Harvest E trawberry, ha jing and Prod oments. Semi	quipment, rvest mech uct Quality -mechaniz	shakers, clam nanization of gr v. Vegetable Ha ed harvesting.	ps, keeping p ape-like fruits arvest Mechar Cabbage, Le	resting and princi latforms, Ground bush type. Cost hization Principle ttuce, green bear bles harvest prin	Fruit of s. ns, green
Work Placement N/A									
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Discussion, Case Study, Problem Solving						
Name of Lecturer(s)									

Assessment Methods and Criteria

Midterm Examination 1 40	Method	Quantity	Percentage (%)
	Midterm Examination	1	40
Final Examination 1 60	Final Examination	1	60

Recommended or Required Reading

1	Bağ Bahçe Sebze ve Endüstri Kültürlerinde Mekanizasyon Uygulamaları, Moser, Ing. E. (Çeviren: Tunçer, İ. K., Özgüven, F.), (1989), Türkiye Zirai Donatım Kurumu Mesleki Yayınları : 52
2	Bahçe Mekanizasyonu, Erdoğan , D., (1997) Ankara Üniversitesi Ziraat Fakültesi Yayın No : 1477
3	Bahçe Bitkilerinin Mekanizasyonu. Özmerzi, A., (1996) T.C. Akdeniz Üniversitesi Yayın No : 63

Week	Weekly Detailed Cour	e Contents				
1	Theoretical	The development of harvesting in horticulture				
	Preparation Work	Research				
2	Theoretical	Biological characteristics of the vineyard and garden products				
	Preparation Work	Research				
3	Theoretical	Fruit harvest mechanization, mechanical harvesting and principles				
	Preparation Work	Research				
4	Theoretical	Shaking parameters				
	Preparation Work	Research				
5	Theoretical	Auxiliary harvesting equipment				
	Preparation Work	Research				
6	Theoretical	Shakers				
	Preparation Work	Research				
7	Theoretical	Clamps, holding platforms, fruit-picking machines from ground				
	Preparation Work	Research				
8	Intermediate Exam	Mid term exam				
9	Theoretical	Citrus harvesting, strawberry harvest mechanization				
	Preparation Work	Research				
10	Theoretical	Harvesting of shrub type berry fruits				
	Preparation Work	Research				
11	Theoretical	Grape harvest mechanization, harvesting costs, losses, damages and product quality				
	Preparation Work	Research				
12	Theoretical	Vegetable harvest mechanization principles, harvest with auxiliary equipments, semi-mechanized harvesting				
	Preparation Work	Research				



13	Theoretical	The principles of cabbage and lettuce harvest
	Preparation Work	Research
14	Theoretical	The principles of green peas, cucumber, tomato and pepper harvest
	Preparation Work	Research
15	Theoretical	the principles of onions and rooted vegetables harvest
	Preparation Work	Research
16	Final Exam	Final exam

Workload Calculation

Activity Quantity Preparation Duration							
ecture - Theory 14 4 2							
Assignment 14 0 2							
Reading 14 0 2							
Midterm Examination	14						
Final Examination	20						
Total Workload (Hours)							
	7						
*25 hour workload is acconted as 1 ECTS							

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Getting general knowledge of the biological and mechanical properties of horticultural products
2	Measuring and interpreting the biological properties of horticultural crops
3	Understanding application fields and parameters of mechanical harvesting of fruit and vegetables
4	Knowledge of the general harvest principles of horticultural crops
5	Getting knowledge about the basic features for the design of harvesting machines
6	Analyze damages and losses in harvest and the costs of harvest

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	L6
P1	5	5	5	5	5	5
P2	5	5	5	5	4	4
P3	4	4	4	4	4	4
P4	5	5	5	5	5	5
P6					3	3
P8	4	4	4	4	4	4
P9	5	5	5	5	5	5
P10	5	5	5	5	5	5
P11	5	5	5	5	5	5
P12	5	5	5	5	5	5

