



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Manufacturing Techniques							
Course Code		FY115		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course		Having knowledge on the produce techniques in fruits, vegetables and ornamentals							
Course Content		Vegetative and generative production techniques used the propagation of fruit, vegetable and landscape and ornamental plants and important tree species							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	1. Öğretim elemanı ders notları
2	2. Prof.Dr.Sabit AĞAOĞLU ve ark.,Genel Bahçe Tarımı, Ankara Üniversitesi yayınları

Week	Weekly Detailed Course Contents	
1	Theoretical	Classification of production techniques of horticultural plants, importance and purposes of reproduction techniques
2	Theoretical	The reproduction building and growing material of horticultural plants
3	Theoretical	Seed structure, seed characteristics, seed production, seed conservation
4	Theoretical	Germination in seeds and stimulating applications of germination
5	Theoretical	Methods of vegetative propagation, grafting, goals of grafting, success limits of grafting and incompatibilities in grafting
6	Theoretical	Nurseries and the grafting types
7	Practice	The grafting vegetable seedling production
8	Intermediate Exam	Midterm exam
9	Theoretical	Propagation with seedling
10	Theoretical	Propagation with dipping
11	Theoretical	Propagation with customized or modified stem and roots
12	Theoretical	Propagation with customized or modified stem and roots
13	Theoretical	Propagation with apomictic seed
14	Theoretical	In vitro culture
15	Theoretical	In vitro culture

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	1	14
Individual Work	2	6	0	12
Midterm Examination	1	9	1	10
Final Examination	1	10	1	11
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	Being able to prepare the propagation materials of horticultural plants
2	Being able to produce with seeds in horticultural plants
3	Being able to produce with cutting in horticultural plants
4	Being able to produce with grafting in horticultural plants
5	Being able to produce with depping in horticultural plants
6	Being able to produce with division and separate in horticultural plants
7	Being able to produce with in vitro culture technique in horticultural plants

Programme Outcomes (Seedling Production)

1	Having knowledge of physiology and morphology characteristics, growth, development and biochemical events occurred in fruits, vegetables and ornamentals plants
2	Having knowledge of soil, climate and irrigation conditions grown fruits, vegetables and ornamentals plants
3	Having knowledge of identification, classification and the use areas of fruits, vegetables and ornamentals plants
4	Having practical and theoretical knowledge of production techniques of fruits, vegetables and ornamentals plants
5	Having ability to identify and to maintain diseases and pests of fruits, vegetables and ornamentals plants
6	Having knowledge of marketing techniques, standards, contributions to the economy of fruits, vegetables and ornamentals plants, legal issues
7	Having knowledge of facilities and builds grown fruits, vegetables and ornamentals plants, and tools and materials used.
8	Having ability to use effective own language and having knowledge of language in order to communicate own colleagues and own customers,
9	Having knowledge of Atatürk Principle and Revolutions and, ability to assimilate Atatürk Principle and Revolutions
10	Having an enough foreign language to able to follow new development in relation with nursery production

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	L7
P1	2	2	2	1		2	3
P2	4	4	4	4	4	4	4
P3	2	2	2	2	3	3	3
P4	3	5	4	3	4	5	4
P5	2		2	2			
P7	4	4	4	3	4	4	3

