



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Hydroponics							
Course Code		TAB113		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To provide students be able to understand why the soilless cultivation of plants is needed, to compass developments associated with soilless culture technics, to comprehend approaches in providing the water and nutrient matter requirement of plants, to plan and manage soilless plant growing at commercial level and to solve problems in soilless plant growing.							
Course Content		The aim and importance of soilless agriculture, the advantages and disadvantages of soilless agriculture applications, to give theoretical and practical information about soilless agriculture techniques.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Course notes of Lecturers
2	Internet

Week	Weekly Detailed Course Contents	
1	Theoretical	The history of the soilless culture, the use in the world and Turkey, The causes of the widespread in Greenhouse
2	Theoretical	The advantages and disadvantages of soilless culture
3	Theoretical	Nutrient in soilless culture
4	Theoretical	Nutrient solution and preparation nutrient solution of in soilless culture
5	Theoretical	Transition cultures from soil to soilless
6	Theoretical	Substrat culture
7	Theoretical	Substrat culture
8	Theoretical	Exam
9	Theoretical	Stagnant water and ventilated culture
10	Theoretical	Nutriention Film Techniques
11	Theoretical	Hydroponica
12	Theoretical	Aeroponica
13	Theoretical	Solution-media-plant analyze
14	Theoretical	The environmental effects and fure of soilless culture
15	Theoretical	Visit a commercial soilless culture greenhouse

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	1	10	1	11
Individual Work	3	9	0	27
Midterm Examination	1	8	1	9
Final Examination	1	10	1	11
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				



Learning Outcomes

1	Being able to understand importance of soilless culture
2	Being able to plan and manage soilless techniques in different plant species.
3	Being able to solve problems facing in soilless cultivation
4	Being able to determine the effects for environment of soilless culture and to project sensitive for environment of production
5	Ability to being open to innovations, to reach information, and to produce solution in this field

Programme Outcomes (Medical and Aromatic Plants)

1	Having the recognition, classification and the use areas knowledge of medical and aromatic plants
2	Having practical and technical knowledge about cultivation and production of medical and aromatic plants
3	Having knowledge of morphology, anatomy, cytology, physiology and biochemical structures of medical and aromatic plants
4	Having knowledge of importance of soil conditions to grow medical and aromatic plants
5	Having information and the ability to use materials related with basic math and basic chemistry founded on qualifications gained in secondary education
6	Having ability to use effective own language and having knowledge of foreign language in order to communicate own colleagues and own customers
7	Having ability to collect medical and aromatic plants, having knowledge of seed technology, drying and conservation of these plants
8	Having ability to identify and to fight diseases and pests of medical and aromatic plants
9	Having knowledge of all Agricultural activities
10	Having knowledge of Atatürk Principle and Revolutions and to assimilate Atatürk Principle and Revolutions
11	Having consciousness of quality
12	Having knowledge and accumulation of investigative and evaluation
13	Ability to work as an individual capable of independent decision-making ideas verbally and in writing, stating the figure to communicate in a clear and concise
14	Ability to identify plants used for medical purposes and to obtain mixtures from drugs acquired these plants
15	Having skill and knowledge of marketing techniques medical and aromatic plants

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

	L1	L2	L3	L4	L5
P4	4	4	4	4	4

