AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Greenhousing								
Course Code	TAP229		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	2	Workload	52 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The aim of this course is to enable students to plan, implement and manage greenhouse management, to solve problems that may be faced with analytical thinking, and to gain the knowledge and skills to evaluate sera x environment interaction.								
Course Content	Greenhouse and greenhouse definition of greenhouses in the world and Turkey, the classification of Sera, Sera place selection factors affecting Greenhouse provider during exercise due diligence required subjects, like air conditioning in greenhouses, Greenhouse soil preparation, Greenhouse Irrigation, general information about vegetable growing and seedling production in greenhouses.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Case Study, 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	Sevgican, A., 1999. Covering Cultivation Volume I and II,
2	Tüzel Y., Gul A., Good Agricultural Practices in Greenhouses. Tibyan Publishing, 172 p.

Week	Weekly Detailed Course Contents	
1	Theoretical	Greenhouse cultivation definition, greenhouse structures, greenhouse cultivation of greenhouses in the world and Turkey's status, distribution and weekly assignments Period
2	Theoretical	Introduction of low and high tunnels, features, usage in our country, establishment and cultivation in these structures
3	Theoretical	Definition of greenhouse and greenhouse, Classification of greenhouses,
4	Theoretical	Greenhouse business models, Factors affecting greenhouse location selection
5	Theoretical	Factors to be taken into consideration during the greenhouse establishment-I, (greenhouse direction, foundation walls, greenhouse skeleton, roof pitch angle etc.)
6	Theoretical	Factors to be considered during the greenhouse establishment-II Greenhouse Covering materials
7	Theoretical	Air conditioning in greenhouses (heating,)
8	Intermediate Exam	Midterm
9	Theoretical	Air conditioning in greenhouses (cooling, radiation,)
10	Theoretical	Air conditioning in greenhouses (Partial humidity, ventilation)
11	Theoretical	Air conditioning in greenhouses (Proportional humidity, CO2 fertilization)
12	Theoretical	Soil preparation and cultivation site types in greenhouses
13	Theoretical	Greenhouse irrigation, plant feeding systems, plant nutrition problems
14	Theoretical	General plant and seedling cultivation in greenhouses
15	Theoretical	Term paper presentations
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	8	1	9

Final Examination	1	14	1	15
			Total Workload (Hours)	52
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To understand the greenhouse structure and its importance in aquaculture
2	To decide on the type of greenhouse suitable for different purposes and the materials to be used in the greenhouse plant
3	Ability to manage and direct air-conditioning in greenhouses.
4	To be able to program and manage the soil preparation of the greenhouse.
5	To be able to decide on irrigation time and amount of greenhouse plants.
6	To be able to design greenhouse environmentally friendly
7	Ability to be open to innovations in this field, to reach information and to produce solutions

Programme Outcomes *(Medical and Aromatic Plants)*	
1	Understands the importance of medicinal and aromatic plants in the World and Turkey
2	Learn about the general characteristics of medicinal and aromatic plants. Learn the important issues in cultivation and can apply.
3	Learn about usage technologies about medicinal and aromatic plants and can apply.
4	Inform of producers of medicinal and aromatic plant species in offering, material supply, production process, marketing matter.
5	Know and follow the laws and regulations pertaining to the profession.
6	Learns morphological and anatomical structures of plants.
7	Learns to identify medicinal and aromatic plants.
8	To be able to behave sensitively towards environmental issues at national and global levels and to be able to interpret solution-oriented information; to be able to be an environmentally conscious and entrepreneurial individual
9	To be able to follow, evaluate and implement new developments and applications in the cultivation of medicinal and aromatic plants independently or as a team.

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	4						
P2		5	5	4	4	5	
P4							5
P8						5	