



**AYDIN ADNAN MENDERES UNIVERSITY  
SULTANHISAR VOCATIONAL SCHOOL  
PLANT AND ANIMAL PRODUCTION  
SEEDLING PRODUCTION  
COURSE INFORMATION FORM**

Course Title	Protected Cultivation								
Course Code	FY117			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The aim is to let students gain knowledge and skills on being able to select the suitable place for greenhouse, to decide on the choice of materials to be used in the greenhouse, to manage and instruct climate control, to manage soil preparation, to produce the seedlings and saplings in greenhouse.								
Course Content	Definition of greenhouse and greenhouse cultivation, Greenhouse production, the factors effecting the greenhouse place selection, greenhouse climate control, the technics growing plant in greenhouse								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study, Problem Solving								
Name of Lecturer(s)									

#### Assessment Methods and Criteria

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

#### Recommended or Required Reading

1	Course notes of Lecturers
2	Internet

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of greenhouse and greenhouse cultivation, Greenhouse production in Turkey and on the world, Distribution of term projects
2	Theoretical	Greenhouse classification
3	Theoretical	The factors effecting the greenhouse place selection
4	Theoretical	Issues that need attention during the greenhouse institutions: Direction, basement, construction, roof angle
5	Theoretical	Issues that need attention during the greenhouse institutions: Cover
6	Theoretical	Greenhouse climate control: Heating,
7	Theoretical	Greenhouse climate control: Cooling, lighting, ventilation
8	Intermediate Exam	Mid-term-exam
9	Theoretical	Greenhouse climate control: The relative humidity, CO2 enrichment
10	Theoretical	Soil preparation
11	Theoretical	Soil preparation
12	Theoretical	The technics growing plant in greenhouse
13	Theoretical	the technics growing plant in greenhouse
14	Theoretical	the technics growing plant in greenhouse
15	Theoretical	the technics growing plant in greenhouse

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	3	1	8
Midterm Examination	1	6	1	7
Final Examination	1	6	1	7
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	Being able to select suitable place for greenhouse,
2	2. Being able to analyse factors effecting the greenhouse place selection,
3	Being able to classify greenhouse type and materials
4	Being able to define the direction size, the frame and cover of the greenhouse,
5	Ability to manage climate control
6	Being able to make greenhouse soil preparation and to grow plant

**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
P1	3	3	4	3	3	4
P2	3	3		3	2	4
P3	3		4	3	2	4
P4	2		2	3	3	2
P5	2		2	1	2	3
P6	1				2	2
P7	3	3	2	3		2

