AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Greenhouse								
Course Code	TRİ120		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	4	Workload	102 *(Hours)*	Theory	2	Practice	1	Laboratory	0
Objectives of the Course	With this lecture, the student will gain competencies in selection of the greenhouse building materials, in establishment of the system in the greenhouse in accordance with the location and type of the greenhouse, the light and temperature inside the greenhouse.								
Course Content	Greenhouse and greenhouse definition, greenhouses in Turkey and the world, classification of greenhouses, factors affecting the choice of the location of the greenhouse, the greenhouse-up attention during the critical points, the greenhouse climate regulation, soil preparation greenhouses, greenhouses, irrigation and plant breeding techniques will be informed about.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case 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	Sera Yapım Tekniği, Yüksel, A.N., 2004.
2	Örtüaltı Sebzeciliği. Cilt I, Sevgican A., 1999a.
3	Örtüaltı Sebzeciliği (Topraksız Tarım). Cilt II, Sevgican A., 1999b.

Week	Weekly Detailed Course Contents	
1	Theoretical	Greenhouse and greenhouse definition, importance and economic value of the greenhouse in the World and in Turkey.
	Practice	Introduction of Greenhouse building materials and building components
2	Theoretical	classification of greenhouses
	Practice	Introduction of Greenhouse building materials and building components
3	Theoretical	Ecological and economic factors affecting the choice of the location of the greenhouse
	Practice	Introduction of greenhouses are classified in different ways with visual way
4	Theoretical	The issues that require attention during the establishment of the greenhouse (direction the main walls, frame, roof slope angle, covering material)
	Practice	to determine the place where high tunnel will be established
5	Theoretical	The issues that require attention during the establishment of the greenhouse (direction the main walls, frame, roof slope angle, covering material)
	Practice	The establishment of a high tunnel
6	Theoretical	The issues that require attention during the establishment of the greenhouse (greenhouse direction, dimensions, main walls, greenhouse frame, roof slope angle, greenhouse covers)
	Practice	High tunnel covered with plastic sheeting
7	Theoretical	Greenhouse climate (heating, cooling, radiation)
	Practice	Introduction of visual way on heating systems used in the greenhouse
8	Intermediate Exam	Midterm Exam
9	Theoretical	Greenhouse climate (heating, cooling, radiation)
	Practice	Introduction of visual way on cooling systems used in the greenhouse
10	Theoretical	Greenhouse climate (ventilation, humidity control, carbon dioxide fertilization)
	Practice	Introduction of visual way used in the greenhouse vents
11	Theoretical	soil preparation on greenhouse (drainage, cleaning, fix the physical structure of the soil, the chemical structure of soil correction)
	Practice	Sterilization of the soil in the greenhouse
12	Theoretical	soil preparation on greenhouse (soil acidity, salinity, and removal, soil disinfection, preparation of sowing and planting sites)

12	Practice	Preparation plant in the greenhouse
13	Theoretical	İrrigation in greenhouses
	Practice	Installation of drip irrigation system in greenhouse
14	Theoretical	Plant breeding techniques on greenhouse
	Practice	To show plants cultivation techniques in the greenhouse
15	Theoretical	Plant breeding techniques on greenhouse
	Practice	To show plants cultivation techniques in the greenhouse
16	Final Exam	FINAL EXAM

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	1	14
Assignment	4	0	5	20
Land Work	5	0	2	10
Reading	14	0	2	28
Midterm Examination	1	0	1	1
Final Examination	1	0	1	1
			Total Workload (Hours)	102
			[Total Workload (Hours) / 25*] = **ECTS**	4

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	Comprehend the issues to be considered to establish a greenhouse and the factors influencing the choice of the place of a greenhouse
2	Comprehend the importance of the air conditioning on green house and to learn how to do.
3	Learn to do the preparation of the soil before planting in greenhouses.
4	Comprehend how to do irrigation in greenhouses and how often to do it
5	Knows to be open to innovations in greenhouse field and produce solutions

Programme Outcomes *(Agricultural Management)*

1	To be able to comprehend the basic management, economy and agricultural management
2	To be able to acquire basic information in excessive, profitable and quality production of vegetable and animal products
3	To be able to manage production in factory, to prepare project and to keep business records
4	To be able to develop solutions in agricultural management
5	To be able to comprehend optimally preparation and marketing in agricultural foods process
6	To be able to follow professional developments and to acquire knowledge to use technological resources
7	To be able to reach the scientific data using computer and the internet
8	To be able to determine the problem about agricultural management, to analyze, to develop solutions and suggestions
9	To be able to comprehend Atatürk Principle and Revolution
10	To be able to take precautions about the problems related to first aid and occupational safety in the enterprise, to solve the problems
11	To be able to use Turkish well, to communicate orally and in writing, to have knowledge of proffessional ethics and responsibility

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

	L1	L2	L3	L4	L5
P1	4				
P3	4	4	4	4	
P4	3	3	3	3	4
P6					5
P7					5
P8	3	2	2	2	5