



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Irrigation							
Course Code		FY108		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Aimed to gain proficiency on choosing an appropriate method of irrigation in agricultural and determine the water needs of plants.							
Course Content		Concepts related to irrigation; identifying of plants irrigation requests before irrigation system selection and implementation; to give information about the related irrigation calculations.							
Work Placement		Students must have to complete their internship within the required time and properties. The required rules are describes at the Adnan Menderes University, Sultanhisar Vocational School, Student Internship Instructions.							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Project Based 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	Lecturers Lesson Notes
2	Bahçe Bitkileri Sulama Tekniği, Osman Yıldırım, Ankara Üniv. Ziraat Fak. Yayınları no: 1438
3	Textbook, articles and so on. all such literatures related with lesson.

Week	Weekly Detailed Course Contents	
1	Theoretical	Irrigation definition, importance and benefits of irrigation, irrigation method and system
2	Theoretical	Soil-plant-water relationships, important soil moisture values for irrigation
3	Theoretical	Methods of measuring soil moisture and take soil samples
4	Theoretical	The importance of soil water intake rate
5	Theoretical	Water requirements of irrigation, evapotranspiration
6	Theoretical	The methods used to estimate the reference evapotranspiration
7	Theoretical	The methods used to estimate the reference evapotranspiration
8	Intermediate Exam	Midterm
9	Theoretical	Crop coefficient, effective rainfall, irrigation scheduling,
10	Theoretical	Selection of appropriate irrigation method
11	Theoretical	Methods of irrigation, surface irrigation methods
12	Theoretical	Irrigation methods of parcel
13	Theoretical	Furrow irrigation method, water distribution systems on farm
14	Theoretical	Pressurized irrigation methods, sprinkler irrigation method
15	Theoretical	Drip irrigation method
16	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Midterm Examination	1	2	1	3
Final Examination	1	4	1	5
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				



**Learning Outcomes**

1	Make the definition of irrigation
2	Irrigation methods and systems to know
3	Knowing the soil-water-plant relationships
4	Knowing take soil samples for measure of soil moisture
5	To calculate the plant's water consumption
6	Be able to scheduling of the irrigation
7	Choose the appropriate irrigation method

**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	4	1	1	1	1	1	1
P2	5	5	5	5	5	5	5
P3	4	1	1	1	1	1	1
P4	1	1	1	1	1	1	1
P5	1	1	1	1	1	1	1
P6	1	1	1	1	1	1	1
P7	1	1	1	1	1	1	1
P8	1	1	1	1	1	1	1
P9	1	1	1	1	1	1	1
P10	1	1	1	1	1	1	1

