

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Plant Nutrition	And Fertiliza	tion					
Course Code	FY210		Couse Leve	el	Short Cycle (A	Associate's	Degree)	
ECTS Credit 2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Recognition of andtogainthea			plantsandh	avingknowledg	jeabout plai	ntnutritionandfertili	ization,
Course Content	Introduction, a plantgrowth, c				wateruptake in	plants, the	effects of nutrients	on
Work Placement	Students mus rules are described instructions.	t have to com cribes at the A	plete their int dnan Mende	ernship wi res Univers	thin the require sity, Sultanhisa	d time and r Vocationa	properties. The re Il School, Student	quired Internship
Planned Learning Activities	and Teaching	Methods	Explanation	(Presenta	tion)			
Name of Lecturer(s)	Lec. Şebnem	Nalan AKAR	OĞLU					

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

## **Recommended or Required Reading**

1 Course notes of Lecturers

Week	<b>Weekly Detailed Cour</b>	se Contents
1	Theoretical	Introduction, plant nutrition elements needed
	Preparation Work	Lecture material
2	Theoretical	Uptaken utrien telements in plants
	Preparation Work	Lecture material
3	Theoretical	Uptake water in plants
	Preparation Work	Lecture material
4	Theoretical	Nitrogen, theeffects of nitrogen on plantgrowth, nitrogendeficiencyandexcess
	Preparation Work	Lecture material
5	Theoretical	Phosphorus, theeffects of phosphorus on plantgrowth, phosphorusdeficiencyandexcess
	Preparation Work	Lecture material
6	Theoretical	Potassium effects on plant growt hand development of potash, potassium deficiency and excess
	Preparation Work	Lecture material
7	Theoretical	Calcium, the metabolic functions of calcium, calcium deficiency and excess
	Preparation Work	Lecture material
8	Preparation Work	Lecture material
	Intermediate Exam	Midterm
9	Theoretical	Magnesium, metabolicfunctions, magnesium, magnesiumdeficiencyandexcess, sulfur, sulfurmetabolicfunctions, deficiencyandexcess of sulfur
	Preparation Work	Lecture material
10	Theoretical	Iron, ironmetabolicfunctions, irondeficiencyandexcess, zinc, zincmetabolicfunctions, deficiencyandexcess of zinc, boron, boronmetabolicfunctions, deficiencyandexcess of boron
	Preparation Work	Lecture material
11	Theoretical	Fertilizerproductionandconsumption, classification of fertilizers
12	Theoretical	Organicfertilizer
	Preparation Work	Lecture material
13	Theoretical	Chemicalfertilizers (nitrogenousfertilizers, phosphorusfertilizers, potassiumfertilizers)
	Preparation Work	Lecture material
14	Theoretical	Chemicalfertilizers (calciumfertilizers, magnesiumfertilizers, sulfurfertilizers)
	Preparation Work	Lecture material



15	Theoretical	Fertilizersincludingmicronutrients,	
	Preparation Work	Lecture material	
16	Preparation Work	Lecture material	
	Final Exam	Final Exam	

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	9	1	10
Final Examination	1	11	1	12
		To	tal Workload (Hours)	50
		[Total Workload (I	Hours) / 25*] = <b>ECTS</b>	2
*25 hour workload is accepted as 1 ECTS				

Learr	rning Outcomes	
1	Knows important nutrient elements for plants	
2	Knows how plantstakenutrientsandwater	
3	Knowseffects of nutrientelemnets on plantdevelopment	
4	Classifies fertilizers	
5	Applies fertilizer	

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Progra	amme Outcomes (Medical and Aromatic Plants)
1	Having the recognition, classification and the use araes knowledge of medical and aromatic plants
2	Having pratical and technical knowledge about cultivation and production of medical and aromatic plants
3	Having knoweledge of morphology, anotomy, cytology, physiology and biochemical structures of medical and aromatic plants
4	Having knowledge of important 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 drogs acquired these plants
15	Having skill and knowledge of marketing techniques medical and aromatic plants

Contri	bution	of Lea	rning (	Outcom	mes to
	L1	L2	L3	L4	L5
P4	3	3	3	3	3

