

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Plant Nutrition	And Fertiliza	tion					
Course Code	FY210		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course Recognition of thenecessarynutrients for plants and having knowledge about plantnutrition and fertilization and togain the ability to use fertilizers			zation,					
Course Content Introduct plantgro		n importantpl	antnutrient nduse of fe	, nutrientand rtilizers	wateruptake in	plants, theeff	fects of nutrients	on
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 Internst Instructions.			quired nternship					
Planned Learning Activities	and Teaching	Methods	Explanation	on (Presentat	tion)			
Name of Lecturer(s)	Lec. Şebnem	Nalan AKARC	DĞLU					

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	Weekly Detailed Cours	rse 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
		Tc	otal Workload (Hours)	50
		[Total Workload (Hours) / 25*] = ECTS	2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

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

Programme Outcomes (Seedling Production)

1	Having knowledge of physiology and morphology characteristics, growth, development and biochemical events occured in fruits, vegetables and ornemantals plants
2	2 Having knowledge of soil, climate and irrigation conditions grown fruits, vegetables and ornemantals plants
3	Having knowledge of identification, classification and the use areas of fruits, vegetables and ornemantals plants
4	Having pratical and theorical knowledge of production techniques of fruits, vegetables and ornemantals plants
5	Having ability to identify and to maintain diseases and pests of fruits, vegetables and ornemantals plants
6	Having knowledge of marketing techniques, standards, contributions to the economy of fruits, vegetables and ornemantals plants, legal issues
7	Having knowledge of facilities and builds grown fruits, vegetables and ornemantals 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,
ę	Having knowledge of Atatürk Principle and Revolutions and, ability to assimilate Atatürk Principle and Revolutions
1	0 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
P2	4	4	4	4	4

