



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Preperation of Fertilization Program in Agriculture							
Course Code		ZTO530		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 (<i>Hours</i>)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To ensure that the students able to understand soil analysis report. Moreover they recognise the nutritional problems based on the reports. As a final, students will gain an experience to prepare soil fertilization programs.							
Course Content		Examine of analysis reports in terms of physical and chemical properties of soils. Investigation of analysis reports of soil nutrient contents. Such as nitrogen, phosphorus, potassium, calcium, magnesium, sulfur, iron, zinc, manganese, copper and the other nutrients. Preparation of fertilization program							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Lec. Mustafa Ali KAPTAN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Soil analysis report that prepared various laboratories
2	Kacar, B. ve A. V. Katkat. 1999. Gübreler ve Gübreleme Tekniği.
3	Tisdale, S.L., W.L. Nelson and J.D. Beaton. 1985. Soil Fertility and Fertilizers. Macmillan Publishing Company. USA.

Week	Weekly Detailed Course Contents	
1	Theoretical	Inspection of report with respect to nitrogen
	Preparation Work	Literature research
2	Theoretical	Inspection of report with respect to Phosphorus
	Preparation Work	Determination of homework
3	Theoretical	Inspection of report with respect to Potassium
	Preparation Work	Presentation and discussion
4	Theoretical	Inspection of report with respect to Ca, Mg, S
	Preparation Work	Presentation and discussion
5	Theoretical	Inspection of report with respect to Fe, Zn, Mn, Cu
	Preparation Work	Presentation and discussion
6	Theoretical	Inspection of report with respect to other micronutrients
	Preparation Work	Presentation and discussion
7	Theoretical	Inspection of report with respect to soil physical parameters
	Preparation Work	Presentation and discussion
8	Intermediate Exam	Midterm Exam
9	Theoretical	Inspection of report with respect to soil chemical parameters
	Preparation Work	Presentation and discussion
10	Theoretical	Inspection of report with respect to soil biological parameters and microbiological fertilizers
	Preparation Work	Presentation and discussion
11	Theoretical	Preparing fertilizer program
12	Theoretical	Preparing fertilizer program
13	Theoretical	Preparing fertilizer program
14	Theoretical	Preparing fertilizer program
15	Theoretical	General revision
16	Final Exam	Final Exam



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	1	0	50	50
Term Project	1	0	50	50
Individual Work	1	0	14	14
Midterm Examination	1	0	14	14
Final Examination	1	0	30	30
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Students will be able to explain parameters presented in soil analysis report
2	Students will be able to recognize problems appear in the report
3	Students will be able to recognize assumptions needed to prepare soil fertilization program
4	Students will be able to fulfill requirements of effective fertilization
5	Students will be able to prepare the fertilization program

Programme Outcomes (Plant Protection Master)

1	To develop knowledge and abilities that gained during undergraduate education
2	To gain ability to search and pursue current literature
3	To gain ability to plan and write projects that help solving problems in field of study.
4	To gain ability to conduct research, analyze data, evaluate research results scientifically and prepare reports and thesis writing.
5	Students will be able to learn and apply the laboratory test and analysis methods
6	To recognize occupational and ethical 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	3	3	4	4	4
P2	4	4	4	4	4
P3	4	4	5	4	5
P4	5	5	5	4	5
P5	4	4	4	4	5
P6	4	4	5	4	4

