AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Fertilizers and Fertilizing in Field Crops								
Course Code	TBB311		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	The aim of this course is to provide the students with the knowledge of nutrient uptake in the field crops, nutrient yield and quality relations.								
Course Content	Evaluation of basic soil properties in field crop fertilization, fertilizer usage schedules, fertilization of important field crops for our country; application method, time, fertilizer type, quantity, effect of fertilization on product and quality								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, 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	70

Recommended or Required Reading	
1	IFA, 1992. World Fertilizer Use Manual.Int. Fert. Assoc. Paris.
2	Kacar, B., Katkat, A.V., 2007. Gübreler ve Gübreleme. 2. Baskı. Nobel Yayınları, Ankara.
3	Fageri, N.K., Baligar, V.C., and Jones, C.A., 1997. Growth and Mineral Nutrition of Field Crops. 2nd Ed. Marcel Dekker Inc. New York.

Week	Weekly Detailed Course Contents	
1	Theoretical	.
	Practice	.
2	Theoretical	.
	Practice	.
3	Theoretical	Chemichal and organic fertilizers
	Practice	Presentation and Discussion
4	Theoretical	.
	Practice	Presentation and Discussion
5	Theoretical	.
	Practice	Presentation and Discussion
6	Theoretical	.
	Practice	Presentation and Discussion
7	Theoretical	.
	Practice	Presentation and Discussion
9	Theoretical	.
	Practice	Presentation and Discussion
10	Theoretical	.
	Practice	Presentation and Discussion
11	Theoretical	.
	Practice	Presentation and Discussion
12	Theoretical	.
	Practice	Presentation and Discussion
13	Theoretical	.
	Practice	Presentation and Discussion

14	Theoretical	.
	Practice	Presentation and Discussion
15	Theoretical	.
	Practice	Presentation and Discussion

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Midterm Examination	1	0	20	20
Final Examination	1	0	24	24
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	
2	
3	
4	
5	
6	

Programme Outcomes *(Agricultural Biotechnology)*	
1	To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology
2	To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications
3	To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems
4	To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools.
5	To have the ability to analyze collected data and interpret the results.
6	To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely
7	To have the awareness of professional liabilities and ethics
8	To be able to follow current national and international problems

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
P1	4	4	4	3	4	3
P2	3	3	3	3	3	3
P3	3	3	5	4	4	4
P4	3	5	4	4	3	3
P5	4	4	3	5	4	4
P6	5	3	4	4	4	3
P7	3	4	5	3	3	3
P8	4	3	3	3	3	4