AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
FIELD CROPS
FIELD CROPS
FIELD CROPS MASTER
COURSE INFORMATION FORM

Course Title	Soil Management and Erosion Control								
Course Code	ZTO512		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit	7	Workload	177 *(Hours)*	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	The aim is to give detailed information about preventing the soil loss via erosion in order to create soil management systems.								
Course Content	The loss of productivity of soils, tillage, protected cultivation, structure and conservation relations, plant production systems, soil erosion, the cultural and mechanical precautions against soil erosion, sustainable land management								
Work Placement									
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Toy, Terence J. 2002. Soil Erosion: Processes, Predicition, measurement and control. New York.
2	Frederick, R..T., Hobbs, J.A., Donahue, R.l., 1991. Soil and Water Conservation 2nd Ed. Englewood Cliffs, NJ, Prentice Hall.
3	Syers, J.K., Rimmer D.L., 1994. Soil Science and Sustainable Land Management in The Tropics, Wallingford, CAB International

Week	Weekly Detailed Course Contents	
1	Theoretical	Soil health
2	Theoretical	The methods of tillage
3	Theoretical	The methods of tillage
4	Theoretical	Soil erosion and taking cultural and mechanical precautions against erosion
5	Theoretical	Soil erosion and taking cultural and mechanical precautions against erosion
6	Theoretical	The relations between erosion and tillage
7	Theoretical	Conservative tillage
8	Intermediate Exam	Midterm Exam
9	Theoretical	The loss of soil productivity
10	Theoretical	The relation between soil structure and yield
11	Theoretical	Plant production systems
12	Theoretical	Plant production systems
13	Theoretical	Sustainable land management
14	Theoretical	Sustainable land management
15	Theoretical	Sustainable land management
16	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	3	42
Assignment	2	0	25	50
Term Project	2	0	10	20
Midterm Examination	1	0	20	20

Final Examination	1	0	45	45
			Total Workload (Hours)	177
			[Total Workload (Hours) / 25*] = **ECTS**	7
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be able to comprehend the information about soil loss.
2	To be able to comprehend the negative effects of water and wind erosion.
3	To be able to comprehend the soil management systems applied in plant production.
4	To be able to evaluate the concept of sustainable land management systems.
5	To be able to comprehend the soil productivity and soil management system relations.

Programme Outcomes *(Field Crops Master)*	
1	To be able to improve and deepen the level of expertise in field crops on the basis of the departments licenses qualifications.
2	To be able to recognize the subjects related to field crops, to be able to solve these and make interpretation.
3	To be able to have the skills of acting independently, to have power to decide and to create.
4	To be able to work in teams between departments
5	To be able to give briefing about latest information of Field Crops in written, oral and visual ways.
6	To be able to take responsibility for developing the new approaches and to formulate a solution facing unforeseen complex situations of applications,
7	To be able to defend the original opinions in both Turkish and in foreign languages by using these languages and communicating effectively.
8	To be able to contribute to science by producing knowledge for the aim of improving quality, efficiency and sustainability
9	To be able to apply breeding methods in order to improve new varieties for Field Crops.
10	To be able to maintain and select the appropriate statistical methods within the framework of the study, evaluation of scientific ethics; to convert the results into a report/dissertation and to offer them by producing scientific publications.

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	4	2	2	3	2
P2	4	2	2	2	2
P3	4	2	2	2	3
P4	3	3	3	2	3
P5	3	3	3	3	3
P6	3	3	3	3	2
P7	2	3	3	3	2
P8	2	3	3	2	2
P9	2	2	2	2	2
P10	2	2	2	3	2