



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Sustainable Agriculture Practices							
Course Code		TB112		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	2	Workload	50 ( <i>Hours</i> )	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Agro-Technique use in Sustainable Agriculture for high yield and product quality in accordance with the safety of the environmental balance							
Course Content		Acquisition of sustainability awareness in agriculture by preserving the soil-plant and environment balance together with the octopus systems. Points to note in the octopus systems, ensuring sustainability in agricultu							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study					
Name of Lecturer(s)		Prof. Osman EREKUL							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Sustainable Agriculture, Second Edition, J. Mason, 2003, 209 p
2	Ökologischer Landbau, Grundwissen für die Praxis, Hermann a. Plakolm, 1991, 428 p.
3	Sürdürülebilir Tarım konusunda yapılmış yabancı dilde yayınlar

Week	Weekly Detailed Course Contents	
1	Theoretical	Characterization of sustainable agriculture, introduction and comparison with other agricultural systems
2	Theoretical	Sustainable concepts in agriculture
3	Theoretical	Fertilization in sustainable agriculture
4	Theoretical	Crop rotation in sustainable agriculture
5	Theoretical	Soil tillage in sustainable agriculture
6	Theoretical	Irrigation in sustainable agriculture
7	Theoretical	Relations between soil fertility and sustainable agriculture
8	Intermediate Exam	Midterm exam
9	Theoretical	Developing of organic matter in sustainable agricultural systems
10	Theoretical	Managing plants , crops and pastures
11	Theoretical	Soil fertility - product physiology – yield and quality interrelationships
12	Theoretical	Improve of the yield of some culture plants in the frame of sustainable agriculture uses
13	Theoretical	Improve of the product quality of some culture plants in the frame of sustainable agriculture
14	Theoretical	lesson
15	Theoretical	Presentation of assignments
16	Final Exam	Final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Midterm Examination	1	8	2	10
Final Examination	1	10	2	12
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	Relationship between yield and soil in sustainable agriculture
2	Fertilization, irrigation, soil cultivation and crop rotation
3	Improve productivity in sustainable agriculture
4	Improve product quality in sustainable agriculture
5	Evaluation of the relationship between yield and quality in sustainable agriculture

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

