AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Plant Genetic Resources						
Course Code		TBY312		Couse Level		First Cycle (Bachelor's Degree)		
ECTS Credit	3	Workload	81 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To provide effective and sustainable use of endemic and rare plant species as gene sources in our country. In this context, the students will be informed about the conservation, collection and preservation of endemic and rare plant species and gains will be obtained. Information about the effect of transgenic plants on natural gene sources will be gained.						
Course Content		Importance of plant genetic resources, evolutionary process of the world, protection of genetic resources, effects of biotechnological applications on genetic resources						
Work Placement		N/A						
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Discussion					
Name of Lecturer(s)								

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Course notes
2	Bitkisel Gen Kaynakları-Prof.Dr. Sezen Şehirali,Y.Doç.Dr.Murat Özgen

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction and General Information
2	Theoretical	Availability of Plant Genetic Resources in Turkey
3	Theoretical	Protection of Plant Genetic Resources in Turkey
4	Theoretical	Protection of Plant Genetic Resources in Turkey
5	Theoretical	Protection of Plant Genetic Resources in Turkey
6	Theoretical	Collection of Plant Genetic Resources in Turkey
7	Theoretical	Collection of Plant Genetic Resources in Turkey
8	Intermediate Exam	Half exam
9	Theoretical	Use of Plant Genetic Resources in Turkey
10	Theoretical	Storage of Plant Genetic Resources in Turkey, Rapid Manufacturing and Biotechnology
11	Theoretical	Transgenic Plants and Plant Genetic Resources in Turkey
12	Theoretical	Evaluation and importance of transgenic plants in terms of social ethics
13	Theoretical	Evaluation and importance of transgenic plants in terms of social ethics
14	Theoretical	Plant genetic resources and biotechnological applications
15	Theoretical	Future of plant genetic resources
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Midterm Examination	1	4	1	5
Final Examination	1	5	1	6
			Total Workload (Hours)	81
			[Total Workload (Hours) / 25*] = **ECTS**	3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Have information about the importance of plant genetic resources

2	Have information about the distribution of plants
3	Have information about the protection of plant genetic resources
4	Have an idea about the effect of biotechnology on genetic resources
5	Have knowledge about collecting plant genetic resources

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	1	2	3	3	1
P2	1	2	1	2	2
P3	1	2	2	2	2
P4	1	2	1	1	1
P5	1	2	1	1	1
P6	1	2	1	1	1
P7	2	3	1	1	1
P8	2	3	2	1	1