AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Biosecurity and. Bioethics								
Course Code	TBY313		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	3	Workload	76 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To examine biosecurity with biotechnological, ecological, economic, agricultural, legal and ethical dimensions.								
Course Content	Relationship between Biotechnology and Biosecurity, Different Approaches about Past, Present and Future of Biotechnological Applications, Modem Biotechnology Applications for Agricultural Purposes, Transgenic Applications, Genetic Modified Organisms and Products, Orientation of GM Application, Risks of GM Applications, Biotechnological importance of modified organisms (GMOs) and products.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Biosecurity and Biotechnology, 2006

Week	Weekly Detailed Course Contents	
1	Theoretical	Content of bioethics
2	Theoretical	The relationship between biotechnology and biosecurity
3	Theoretical	Different Approaches on Past, Present and Future of Biotechnological Applications
4	Theoretical	Modern Biotechnology Applications for Agricultural Purposes
5	Theoretical	Transgenic Applications
6	Theoretical	Orientation of Genetically Modified Organisms and Products
7	Intermediate Exam	Exam
8	Theoretical	Controversial Risks of GM Implementation and Analysis of Different Approaches
9	Theoretical	Biological Weapons
10	Theoretical	Genetically Modified Organisms (GMOs) and the Place of Products in International Trade
11	Theoretical	Patent Rights and Law in Modern Biotechnology
12	Theoretical	Culture collections and their importance in terms of biosecurity
13	Theoretical	Developments Regarding Legal Structuring Studies in International Platforms and National Front in terms of Biosecurity
14	Final Exam	Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Midterm Examination	1	2	1	3
Final Examination	1	2	1	3
			Total Workload (Hours)	76
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Ability to construct biological problems, develop solutions and apply innovative methods in solutions
2	Comprehensive knowledge about the modern techniques and methods applied in biotechnology and their limits are learned.

3	To learn the knowledge and skills of understanding the living and environmental aspects of biotechnological applications and making them suitable for nature
4	The relationship between bioethics and biotechnology is learned
5	Relation of biotechnological products with law and ethical laws are learned.

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	4	4	3	2
P2	5	4	4	4	4
P3	4	5	4	4	3
P4	4	4	4	3	2
P5	4	4	4	4	3
P6	4	3	3	4	4
P7	5	4	5	4	5
P8	4	4	5	4	4