



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Biotechnology in Plant and Animal Production							
Course Code		TBY310		Course Level		First Cycle (Bachelor's Degree)			
ECTS Credit	3	Workload	72 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Student have informations about plant and animal biotechnology, solve problems these areas							
Course Content		Biotechnologic applications in plant and animal productions							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)		Prof. Ahmet OKUMUŞ							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Final Examination	1	100

Recommended or Required Reading

1	Lecture notes
2	Plants, Genes and Crop Biotechnology. 2003. Second Edition. 532 pp. Maarten J. Chrispeels and David E. Sadava. Jones and Bartlett Publishers. ISBN 0-7637-1586-7.

Week	Weekly Detailed Course Contents	
1	Theoretical	General vief of plant production in the World and Turkey
2	Theoretical	Advantages and difficulties represent by biotechnology
3	Theoretical	Biotechnologic methots used in agricultural researches
4	Theoretical	Biotechnology in the plant production
5	Theoretical	Biotechnology in the plant production 2
6	Theoretical	Production of Genetic Modified Plants
7	Theoretical	Future biotechnology in the plant production
8	Theoretical	Biotechnology applications in Animal Production
9	Theoretical	Reasons for the use of biotechnology in animal production
10	Theoretical	Ethical and social problems
11	Theoretical	Relationship between biotechnology and animal breeding
12	Theoretical	Artificial insemination
13	Theoretical	Transgenic animal technologies
14	Theoretical	Transgenic animal technologies
15	Theoretical	Animal feed and animal health biotechnologies
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	2	20	12	64
Final Examination	1	7	1	8
Total Workload (Hours)				72
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Students have informations about using biotechnology in plant production
2	Students have informations about genetic modified plants
3	Have information about plant tissue culture techniques
4	Have knowledge about molecular techniques used in plant and animal biotechnology



5	Get knowledge about biotechnological methods used in animal production
---	--

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

