

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Biotechnology For Agricultural Scientist							
Course Code		TBY154		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit 3		Workload	76 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of the Biotechnology For Agricultural Scientist is basic biological information and about the importance of biotechnology is given.							
Course Content		Inorganic substances, carbohydrates, proteins and lipids, nucleic acids, protein synthesis, enzymes, the importance of biotechnology, genetically modified organisms, techniques used in biotechnology.							
Work Placement		N/A							
Planned Learning Activities		and Teaching	Methods	Explanation	(Presenta	tion), Discussio	on, Individua	I 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 Introduction to Biotechnology, Palme Yayınevi

Week	Weekly Detailed Course Contents				
1	Theoretical	inorganic substances			
2	Theoretical	Carbohydrates, Proteins and Lipids			
3	Theoretical	Nucleic Acids			
4	Theoretical	Protein synthesis			
5	Theoretical	Enzymes			
6	Theoretical	The importance of biotechnology			
7	Theoretical	Genetically Modified Organisms			
8	Theoretical	Techniques used in biotechnology			
9	Intermediate Exam	Midterm exam			
10	Theoretical	Lesson presentation is made.			
11	Theoretical	Lesson presentation is made.			
12	Theoretical	Lesson presentation is made.			
13	Theoretical	Lesson presentation is made.			
14	Theoretical	Lesson presentation is made.			
15	Final Exam	Final 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	Obtain information on basic biotechnology				
2	On genetically modified organisms will be knowledge				
3	Learn the importance of agriculture and biotechnology				



4	Biotechnological methods are learned		
5	The use of biotechnological methods for agriculture is learned	k	
Progra	amme Outcomes (Dairy Technology)		

Progra	amine Outcomes (Dairy Technology)
1	Having sufficient infrastructure in basic sciences and engineering subjects and ability to use the theoretical and applied info instantly in this field.
2	Determining the modern techniques, tools and information technologies required for applications related with his field and ability to use them efficiently
3	Ability for planning, projecting, and designing, following up, analyzing and finding target-driven solutions related with his field
4	Ability to have professional ethic and awareness.
5	Ability to work, decide, express opinions orally and in written individually
6	Ability to participate team studies, taking responsibility, making leadership.
7	Ability to conceive Ataturk's principles and reforms, to communicate in Turkish and foreign language.
8	Ability to comprehend the necessity to learn for a life time, to monitor developments in science and technology and continuously renew himself.
9	Having sufficient level of information about production and quality control of milk and dairy products and also product development, increasing product quality and food security fields.
10	Ability to detect, define, solve problems related with his field and to select and apply suitable methods and modeling techniques for this purpose.
11	To be conscious about workplace applications, worker health, work security and environment subjects, to have knowledge about legal results of the engineering applications related with his subject.

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5
P8	4	4	4	4	4
P9	4	4	4	4	4