



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Gene Therapy							
Course Code		TBY420		Couse Level		First Cycle (Bachelor's Degree)			
ECTS Credit	3	Workload	80 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The goal of gene therapy is to cure or slowdown a genetic disease by repairing the damaged gene responsible for the disease. To achieve this goal, gene therapy requires the technology to insert the missing “normal” gene into the DNA of the patient’s cells.							
Course Content		The goal of gene therapy is to cure or slowdown a genetic disease by repairing the damaged gene responsible for the disease. To achieve this goal, gene therapy requires the technology to insert the missing “normal” gene into the DNA of the patient’s cells.							
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	Gene Keys: Unlocking the Higher Purpose Hidden in Your DNA
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Week	Weekly Detailed Course Contents	
1	Theoretical	History of Gene Therapy
2	Theoretical	History of Gene Therapy
3	Theoretical	What is a gene?
4	Theoretical	What is a gene?
5	Theoretical	Discussion
6	Theoretical	Discussion
7	Intermediate Exam	Exam
8	Theoretical	From gene to protein
9	Theoretical	From gene to protein
10	Theoretical	Protein conformation
11	Theoretical	vaccinations
12	Theoretical	Discussion
13	Theoretical	miRNA
14	Theoretical	v

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	3	2	70
Midterm Examination	1	4	1	5
Final Examination	1	4	1	5
Total Workload (Hours)				80
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Knows the concept of gene
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2	Knows transformation from gene to protein
3	Knows proteins and their importance
4	Have information about vaccines
5	have knowledge about mRNA

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

