



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Gene Therapy and Its Applications in Medicine							
Course Code		TIB641		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	99 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course									
Course Content									
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	1. The Cell: A molecular Approach , Geoffrey M. Copper
2	2. Molecular Cell Biology, Lodish, WH Freeman and Company

Week	Weekly Detailed Course Contents	
1	Theoretical	What is gene therapy?
2	Theoretical	Gene therapy methods
3	Theoretical	Recombinant DNA technology
4	Theoretical	Recombinant DNA technology
5	Theoretical	Gene transfer mechanisms
6	Theoretical	Gene transfer mechanisms
7	Theoretical	Retroviral and adenoviral vectors
8	Intermediate Exam	Midterm Exam
9	Theoretical	Gene therapy applications
10	Theoretical	Successful gene therapy example presentation and discussion
11	Theoretical	Successful gene therapy example presentation and discussion
12	Theoretical	Un-successful gene therapy example presentation and discussion
13	Theoretical	Un-successful gene therapy example presentation and discussion
14	Theoretical	Recent applications
15	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	5	2	91
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
Total Workload (Hours)				99
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	
2	
3	
4	



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Programme Outcomes (*Medical Biology Doctorate*)

1	To acquire fundamental knowledge on medical biology field
2	To gain expertise on molecular biology techniques
3	To utilize molecular biology techniques
4	To be able to construct and conduct a research project
5	To be able to follow and interpret scientific advancements

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	3	4	3	2	2
P2	4	3	4	4	3
P3	3	3	3	3	3
P4	3	3	3	3	4
P5	3	3	4	3	4

