



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Molecular Genetics							
Course Code		TIB603		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	125 (<i>Hours</i>)	Theory	3	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)		Prof. Mehtap KILIÇ EREN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	The Cell: A molecular Approach , Geoffrey M. Copper
2	2. Molecular Cell Biology, Lodish, WH Freeman and Company
3	3. Molecular Biology of the Cell, Alberts, Garland Science

Week	Weekly Detailed Course Contents	
1	Theoretical	Structure and funtion of the gene
2	Theoretical	Structure and funtion of the gene
3	Theoretical	Genetic regulation in eukaryotes
4	Theoretical	Genetic regulation in eukaryotes
5	Theoretical	Replication
6	Theoretical	Transcription, molecular mechanisms of translation
7	Theoretical	Human genome project
8	Intermediate Exam	Midterm Exam
9	Theoretical	Genomics
10	Theoretical	Proteomics
11	Theoretical	Metabolomics
12	Theoretical	Recombinant DNA technology
13	Theoretical	Genetically modified organisms
14	Theoretical	Transgenics
15	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	4	3	91
Midterm Examination	1	15	2	17
Final Examination	1	15	2	17
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	
2	
3	



4	
5	

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	5	5	5	5	5
P2	4	4	3	3	4
P3	1	1	1	1	2
P4	2	2	2	2	2
P5	4	4	5	5	4

