



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Molecular Genetics							
Course Code		TIB603		Course 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** (*Biochemistry (Medical) Doctorate*)

1	To have basic theoretical knowledge about biochemistry and to help understanding biochemistry
2	To have the basic laboratory knowledge, apparatus and methods used in biochemistry
3	Analysis: To be able to analyze information critically
4	Synthesis: To be able to synthesize and adapt the knowledge in the field from different directions
5	Evaluation: To critically evaluate research in the field

