AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	DNA Repair								
Course Code	TIB640			Couse 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 molecularApproach , Geoffrey M. Copper
2	2. Molecular Cell Biology, Lodish, WH FreemanandCompany

Week	Weekly Detailed Course Contents	
1	Theoretical	What is DNA repair?
2	Theoretical	Singe and double strand DNA damage
3	Theoretical	Mutagenic agents
4	Theoretical	DNA repair and its interaction with cancer
5	Theoretical	Mechanisms of DNA repair
6	Theoretical	Photoreactivation
7	Theoretical	BER, NER
8	Intermediate Exam	Midterm Exam
9	Theoretical	Homologous recombination
10	Theoretical	Non homologous end joining
11	Theoretical	2015 Nobel price for chemistry and DNA repair I
12	Theoretical	2015 Nobel price for chemistry and DNA repair II
13	Theoretical	Presentation assignment and discussion I
14	Theoretical	Presentationassignment and discussion II
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	

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