AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Analyses of Mutagenesis								
Course Code	TIB633		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit	4	Workload	99 *(Hours)*	Theory	2	Practice	2	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. NCBI Pubmed ve güncel bilimsel yayınlar
2	2. Mutagenicity Testing: A practical approach, S. Venitt and J.M. Parry (2015)

Week	Weekly Detailed Course Contents	
1	Theoretical	Basic information about mutation, mutagen, mutagenicity
2	Theoretical	Basic mutagenicity tests
3	Theoretical	The analysis of bacterial mutations (Ames test)
4	Theoretical	The chromosome mutation tests in somatic cells
5	Theoretical	The micronucleus test
6	Theoretical	Mutagen test systems-Bacterial systems
7	Theoretical	Mutagen test systems-Yeast systems
8	Intermediate Exam	Midterm Exam
9	Theoretical	Mutagen test systems-Drosophila
10	Theoretical	Mutagen test systems-Plant systems
11	Theoretical	Mutagen test systems-Cell culture
12	Theoretical	Mutagen test systems-Chromosome control systems
13	Theoretical	Mutagen test systems-Animal test models
14	Theoretical	Using mutagens in anti-cancer therapy
15	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	2	2	52
Lecture - Practice	13	1	2	39
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	4	4	2	2	2
P2	2	2	4	4	4
P3	2	2	3	3	3
P4	2	2	3	3	5
P5	2	2	2	3	3