AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
MEDICAL BIOLOGY
MEDICAL BIOLOGY
MEDICAL BIOLOGY MASTER
COURSE INFORMATION FORM

Course Title	Principles of Epigenetics								
Course Code	TIB540		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit	4	Workload	98 *(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)	Assoc. Prof. Gizem DÖNMEZ YALÇIN								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Epigenetics by C. David Allis (Editor), Marie-Laure Caparros (Editor), Thomas Jenuwein (Editor), Danny Reinberg (Editor) Cold Spring Harbor Laboratory Press; 2 edition (February 28, 2015)

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to epigenetic
2	Theoretical	Transcription process
3	Theoretical	DNA packaging and chromatin structure
4	Theoretical	Modifying the structure of chromatin
5	Theoretical	DNA methylation
6	Theoretical	Histone modifications
7	Intermediate Exam	Midterm Exam
8	Theoretical	The machinery of histone modification
9	Theoretical	Locus specific histone modification
10	Theoretical	Epigenetic control of gene expression
11	Theoretical	Epigenetic control of mitosis
12	Theoretical	Epigenetic control of cell differentiation
13	Theoretical	Epigenetic control of neurodegeneration
14	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	4	2	78
Midterm Examination	1	8	2	10
Final Examination	1	8	2	10
			Total Workload (Hours)	98
			[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 Master)*	
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	3	2
P2	1	1	1	3	5
P3	1	1	1	3	5
P4	1	1	1	2	1
P5	3	3	3	4	5