



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Epigenetics							
Course Code		TIB621		Course 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)		Prof. Mehtap KILIÇ EREN							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	1. Epigenetics – David C Ellis, Marie-Laure Caparros, Thomas Jenuwein, Danny Reinberg - Cold Spring Harbor Laboratory Press; 2 edition (February 28, 2015)
2	2. Genetik Kavramlar - William S. Klug , Michael R. Cummings - Palme Yayıncılık - 2. baskı
3	3. NCBI Pubmed ve güncel bilimsel yayınlar

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to epigenetic control
2	Theoretical	Chromosom organization and function I
3	Theoretical	Chromosom organization and function II
4	Theoretical	DNA methylation
5	Theoretical	Histones and chromatin structure
6	Theoretical	Covalent histone modifications I
7	Theoretical	Covalent histone modifications II
8	Intermediate Exam	Midterm Exam
9	Theoretical	Non coding RNAs
10	Theoretical	3D structure of nucleus and function
11	Theoretical	Epigenetic reprogramming
12	Theoretical	genomic imprinting
13	Theoretical	Inactivation of X
14	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	5	4	2	2
P2	2	2	1	4	5
P3	1	1	1	2	3
P4	3	3	3	3	2
P5	3	3	4	5	4

