AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Non Coding RNAs and Micro RNAs								
Course Code	TIB632		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)	Res. Assist. Bakiye GÖKER BAĞCA								

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

Recommended or Required Reading	
1	1. Non-coding RNAs and Epigenetic Regulation of Gene Expression: Drivers of Natural Selection – Kevin V. Morris - Caister Academic Press (January 1, 2012)
2	2. NCBI pubmed ve güncel yayınlar

Week	Weekly Detailed Course Contents	
1	Theoretical	Genomic organisation
2	Theoretical	Junk DNA and non coding genes
3	Theoretical	Identification of sense and anti sense transcripts from genome
4	Theoretical	Long non coding RNAs
5	Theoretical	Xist RNA and X chromosome
6	Theoretical	Pseudogenes
7	Theoretical	Genomic imprinting and RNA
8	Intermediate Exam	Midterm Exam
9	Theoretical	RNAi
10	Theoretical	Lin-4 ve let-7 RNAs
11	Theoretical	Micro RNAs
12	Theoretical	Gene silencing – Plants and simple organisms
13	Theoretical	Gene silencing – Higher organisms
14	Theoretical	Role of small non coding RNAs on gene experession
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	5	4	3	3
P2	2	2	2	4	4
P3	2	2	2	3	3
P4	3	3	3	3	3
P5	3	3	3	3	3