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

Course Title	Methods For Chromosome İsolation								
Course Code	TIB532		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	5	Workload	120 *(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	Genetic analyses: An integrated approach, Mark Sanders and John Bowman (2011)

Week	Weekly Detailed Course Contents	
1	Theoretical	The structure of chromosomes
2	Theoretical	Chromosome, karyotype, idiotype
3	Theoretical	Methods used to observe the chromosomes
4	Theoretical	Methods used to isolate different chromosomes
5	Theoretical	The classification of chromosomes by the number and the structure
6	Theoretical	Chromosome banding methods
7	Theoretical	Chromosome banding and karyotype identification
8	Theoretical	The major indications of cytogenetic analysis
9	Intermediate Exam	Midterm Exam
10	Practice	Observing chromosome anomalies I
11	Practice	Observing chromosome anomalies II
12	Practice	Prenatal and postnatal diagnosis
13	Practice	Problems encountered during the analysis
14	Practice	Chromosome analysis of cancer
15	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	2	2	52
Lecture - Practice	13	2	2	52
Midterm Examination	1	4	2	6
Final Examination	1	8	2	10
			Total Workload (Hours)	120
			[Total Workload (Hours) / 25*] = **ECTS**	5
**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	2	2	3
P2	1	1	5	1	1
P3	1	1	5	1	1
P4	1	1	1	2	2
P5	3	3	3	5	3