



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

Course Title	Basic Techniques in Medical Biology								
Course Code	TIB528	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	5	Workload	125 (Hours)	Theory	1	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. Basic Methods in Molecular Biology. Davis et al (1995)

Week	Weekly Detailed Course Contents	
1	Practice	General principles of laboratory practices and safety I
2	Practice	General principles of laboratory practices and safety II
3	Practice	Sterilization in Laboratory
4	Practice	Concentrations and Calculations
5	Practice	Preparing Solutions
6	Practice	Using the pH meter
7	Practice	The techniques of centrifugation
8	Intermediate Exam	Midterm Exam
9	Practice	Using spectrophotometer
10	Practice	Cell culture I
11	Practice	Cell culture II and counting cells
12	Practice	Microscope
13	Practice	microscope usage I
14	Practice	microscope usage II
15	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	2	1	39
Lecture - Practice	13	4	2	78
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
Total Workload (Hours)				125
[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	3	3	2	2
P2	1	5	5	3	5
P3	1	5	5	3	5
P4	1	1	1	1	1
P5	3	3	3	5	3

