

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title								
Course Code	TIB501	Couse Level		Second Cycle (Master's Degree)				
ECTS Credit 5	Workload 128 (Hours)	Theory	3	Practice	0	Laboratory	0	
Objectives of the Course Basic molecular cellular biology education								
Course Content	cell, physical and communi	Cellular biology, eukaryotic cell types, structure and function of elements that make up the eukaryotic cell, physical and communicative links between cells, systemic effects on eukaryotic cells (hormones, growth factors), the minimum conditions needed by the cell.						
Work Placement N/A								
Planned Learning Activities and Teaching Methods Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s) Prof. Gizem DÖNMEZ YALÇIN								

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

Recommended or Required Reading

Molecular Cell Biology – Harvey Lodish, Arnold Berk, Chris A. Keiser, Monty Krieger, Anthony Bretscher, Hidde Ploegh, Angelika Amon, Mathew P. Scott - W. H. Freeman; Seventh Edition edition (May 2, 2012)

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Introduction to cell biology and basic chemical concepts
2	Theoretical	Basic molecular genetic concepts
3	Theoretical	Basic molecular genetic techniques
4	Theoretical	Gene organisation and expression
5	Theoretical	Regulation of gene expression
6	Theoretical	Cell imaging, fractionation and culturing
7	Theoretical	Biological membranes
8	Intermediate Exam	Midterm exam
9	Theoretical	Cellular energetics
10	Theoretical	Protein trafficking
11	Theoretical	Cell signal transduction
12	Theoretical	Cell organisation and motility
13	Theoretical	Cell cycle
14	Theoretical	Cell death
15	Final Exam	Final Exam

Workload Calculation						
Activity	Quantity	Preparation		Duration		Total Workload
Lecture - Theory	13		1	3		52
Midterm Examination	1		24	2		26
Final Examination	1		48	2		50
Total Workload (Hours)						128
[Total Workload (Hours) / 25*] = ECTS						5
*25 hour workload is accepted as 1 ECTS						

Learn	Learning Outcomes				
1	Explain the basic learning areas				
2	Learning basic cellular functions in molecular level				
3	Learning molecular biology concepts				



4	Learning basic signal transduction pathways	
5	Learning to analyze data of molecular biological techniques	

Prog	amme 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	5	3
P2	2	2	2	2	5
P3	2	2	2	1	4
P4	2	2	2	1	1
P5	3	3	3	3	3

