

AYDIN ADNAN MENDERES UNIVERSITY GRADUATE SCHOOL OF HEALTH SCIENCES HISTOLOGY AND EMBRYOLOGY HISTOLOGY AND EMBRYOLOGY (MEDICAL) HISTOLOGY AND EMBRYOLOGY (MEDICAL) MASTER'S WITHOUT THESIS COURSE INFORMATION FORM

Course Title		The Cell Membrane, Organelles, Evolving of the Cell Membrane Structure and Cell Division Discusses							
Course Code		THE500		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	6	Workload	154 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		At the graduate level; learning of cell definition, cell types and organelles in the structure and functional relationship							
Course Content		Describes cell membrane, organelles, cell membranes and cell division.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Discussion, Case Study, Project Based Study, Individual Study, Problem Solving						
Name of Lecturer(s) Prof. Kemal ERGİN									

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

Recommended or Required Reading

1 Histology and Cell Biology

Week	Weekly Detailed Cour	Course Contents				
1	Theoretical	General structure of cells				
2	Theoretical	The cell membrane				
3	Theoretical	Cell shapes				
4	Theoretical	Cell nucleus and cell divisions				
5	Theoretical	Cytoplasm, Plasma membrane models				
6	Theoretical	Pinocytosis, endocytosis, phagocytosis, exocytosis				
7	Theoretical	Cell membrane signaling and signals that regulated by intracellular receptors				
8	Intermediate Exam	MIDTERM EXAM				
9	Theoretical	Structure and function of mitochondria and ribosome				
10	Theoretical	Structure and function of endoplasmic reticulum and Golgi complex				
11	Theoretical	Structure and function of lysosomes and peroxisome				
12	Theoretical	Structure and function of secretory granules				
13	Theoretical	Microtubule, Silya, flagelya structure and function				
14	Theoretical	Structure and function of microfilament and cytokeratin				
15	Theoretical	Cytoplasmic inclusions, Cell components related diseases				
16	Final Exam	FINAL EXAM				

Workload Calculation					
Activity	Quantity Preparation Duration		Duration	Total Workload	
Lecture - Theory	14	2	2	56	
Reading	14	0	3	42	
Individual Work	14	2	2	56	
	154				
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learning Outcomes

- 1 To be able to explain cell functions and differentiation
- 2 To be able to explain structure and function of cell organelles



3	To be able to explain diseases related to cell components	
4	To be able to explain cell division types and their properties	
5	Be able to define the structure and functions of cell nucleus	

Progr	Programme Outcomes (Histology and Embryology (Medical) Master's Without Thesis)					
1	To have detailed information about cell structure and function at microscopic level					
2	To have theoretical and practical knowledge about experimental methods used in histology					
3	To know the ethical rules for publishing and presenting a scientific study					
4	To have sufficient knowledge about the laboratory methods used in fertilization and assisted reproduction					
5	to have enough knowledge about the general characteristics of human embryology					

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	3	3	3	4	4
P2	4	3	4	3	3
P3	3	4	3	3	2
P4	3	3	4	3	4
P5	3	4	3	3	5

