

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
CELL DAMAGE, ADAPTION and DEATH	HSED2237570	Spring Semester	2+2	3	6
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Third Cycle (Doctorate Degree)				
Course Type	Elective				
Course Coordinator	Assoc.Prof. Seda KARABULUT				
Name of Lecturer(s)	Prof.Dr. İlknur KESKİN, Assoc.Prof. Seda KARABULUT				
Assistant(s)					
Aim	The aim of the lesson is to acquire knowledge about cell injury, cellular adaptation and cell death				
Course Content	This course contains; Introduction to cell biology,Cell injury,Types of cell injury,Mechanisms of cell injury,Causes of cell injury,Cellular adaptation,Midterm,Cell death- necrosis,Cell death- apoptosis,Molecular and genetic approach to cell injury, cellular adaptation and cell death ,Cell death- autophagy,Pathologic and physiologic process of cellular injury, cellular adaptation and cell death,Morphologic criteria of cellular injury, cellular adaptation and cell death,Final exam.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Analyzes basic information about cell biology.			14, 9	A	
Explains basic knowledge about cellular injury			14, 9	A	
Defines basic knowledge about cellular injury			14, 9	A	
Explains basic knowledge about mechanisms of cellular injury			14, 9	A	
Defines basic knowledge about the causes of cellular injury			14, 9	A, E	
Explains basic knowledge about cellular adaptation			14, 9	A, E	
Explains basic knowledge about cell death and necrosis			14, 9	A, E	
Explains basic knowledge about cell death and apoptosis.			14, 9	A	
Defines basic knowledge about molecular and genetic insight to cellular injury, adaptation and death			14, 9	A	
Defines Pathologic and physiologic process in cellular injury, adaptation and death			14, 9	A	
Defines Morphologic markers of cellular injury, adaptation and death			14, 17, 9	A	
Explains the basic information about cell death-autophagy.			14, 9	A	
Teaching Methods	14: Self Study Method, 17: Experimental Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework				
Lecture Schedule					
Sequenc e	Topics	Preliminary Preparation			
1	Introduction to cell biology	Reading the relevant course presentation			
2	Cell injury	Reading the relevant course presentation			
3	Types of cell injury	Reading the relevant course presentation			
4	Mechanisms of cell injury	Reading the relevant course presentation			
5	Causes of cell injury	Reading the relevant course presentation			
6	Cellular adaptation	Reading the relevant course presentation			
7	Midterm	-			
8	Cell death- necrosis	Reading the relevant course presentation			
9	Cell death- apoptosis	Reading the relevant course presentation			
10	Molecular and genetic approach to cell injury, cellular adaptation and cell death	Reading the relevant course presentation			
11	Cell death- autophagy	Reading the relevant course presentation			
12	Pathologic and physiologic process of cellular injury, cellular adaptation and cell death	Reading the relevant course presentation			
13	Morphologic criteria of cellular injury, cellular adaptation and cell death	Reading the relevant course presentation			
14	Final exam				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources
Lecture notes