

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
ADVANCED CELL BIOLOGY	HSED1265950	Spring Semester	2+2	3	8
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Third Cycle (Doctorate Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Prof.Dr. İlknur KESKİN				
<b>Name of Lecturer(s)</b>	Prof.Dr. İlknur KESKİN				
<b>Assistant(s)</b>					
<b>Aim</b>	In this lesson; It is aimed to provide students with knowledge about basic cell biology, organelles, their functions and molecular mechanisms.				
<b>Course Content</b>	This course contains; Basic Tissues and integrated cell biology,Introduction to cell organelles and their functions,Introduction to cell signaling mechanisms,Nucleus-nucleolus molecular mechanisms,Mitochondria-golgi molecular mechanisms,ER-gER molecular mechanisms,Midterm exam,Other organelles in the cell molecular mechanisms,Survival and death molecular pathways,Intercellular connections,Immune defense mechanisms,Molecular mechanisms of wound healing,Stem cell,Final exam.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
Explains the molecular mechanism of wound healing.			14, 9	A, E	
Explains immune defense mechanisms.			14, 9	A, E	
Explains cell survival mechanisms.			14, 9	A	
Explains cell death mechanisms.			14, 9	A, E	
Defines the functions of cell organelles.			14, 9	A	
Explains cell signaling mechanisms.			14, 9	A	
Explains the basic information about stem cells.			14, 9	A	
Explains the connections between cells.			14, 9	A, E	
Explains basic information about cell organelles.			14, 9	A	
<b>Teaching Methods</b>	14: Self Study Method, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam, E: Homework				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Basic Tissues and integrated cell biology	Reading the relevant course presentation			
2	Introduction to cell organelles and their functions	Reading the relevant course presentation			
3	Introduction to cell signaling mechanisms	Reading the relevant course presentation			
4	Nucleus-nucleolus molecular mechanisms	Reading the relevant course presentation			
5	Mitochondria-golgi molecular mechanisms	Reading the relevant course presentation			
6	ER-gER molecular mechanisms	Reading the relevant course presentation			
7	Midterm exam	-			
8	Other organelles in the cell molecular mechanisms	Reading the relevant course presentation			
9	Survival and death molecular pathways	Reading the relevant course presentation			
10	Intercellular connections	Reading the relevant course presentation			
11	Immune defense mechanisms	Reading the relevant course presentation			
12	Molecular mechanisms of wound healing	Reading the relevant course presentation			
13	Stem cell	Reading the relevant course presentation			
14	Final exam	-			
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		50			
General Exam		50			

<b>Resources</b>
Lecture notes, literature