

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
EXPERIMENTAL ANIMAL MODELS	HSED1269390	Spring Semester	2+4	4	8
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Third Cycle (Doctorate Degree)				
Course Type	Elective				
Course Coordinator	Assist.Prof. Olgu Enis TOK				
Name of Lecturer(s)	Assoc.Prof. Mehmet Şerif AYDIN, Assist.Prof. Olgu Enis TOK				
Assistant(s)					
Aim	The aim of the course is to teach how to induce various disease models in mice and rats, to construct experimental disease models in animals and to apply treatment methods in line with the acquired knowledge.				
Course Content	This course contains; Creating a DM model with streptozocin, Establishing a liver failure model with CCl4, Creation of ischemia-reperfusion models, Establishment of experimental sepsis or adhesion models, Creation of intraabdominal sepsis models, Establishment of experimental shock models, Midterm, Resection – anastomosis – creation of burst pressure models, Creation of transplantation models, Establishment of experimental models of obstructive jaundice, Creation of experimental pancreatitis models, Establishment of experimental cholangitis models, Creation of peritoneal adhesion models, Final exam.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Explain the design of the experimental model of liver failure with CCl4.			14, 9	A, E	
Explains how to create an experimental model with streptozocin.			14, 9	A, E	
Explains ischemia-reperfusion model creation.			14, 9	A, E	
Explains how to create an experimental sepsis or adhesion model.			14, 9	A, E	
Explains how to create intraabdominal sepsis models.			14, 9	A, E	
Explain experimental shock models.			14, 9	A, E	
Explains resection – anastomosis – burst pressure models.			14, 9	A, E	
Explains the transplantation models.			14, 9	A, E	
Explain experimental models of obstructive jaundice.			14, 9	A, E	
Explains experimental models of pancreatitis.			14, 9	A, E	
Explains how to create experimental cholangitis models.			14, 9	A, E	
Explains creating peritoneal adhesion models.			14, 9	A, E	
Teaching Methods	14: Self Study Method, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam, E: Homework				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Creating a DM model with streptozocin	Reading the relevant course presentation			
2	Establishing a liver failure model with CCl4	Reading the relevant course presentation			
3	Creation of ischemia-reperfusion models	Reading the relevant course presentation			
4	Establishment of experimental sepsis or adhesion models	Reading the relevant course presentation			
5	Creation of intraabdominal sepsis models	Reading the relevant course presentation			
6	Establishment of experimental shock models	Reading the relevant course presentation			
7	Midterm				
8	Resection – anastomosis – creation of burst pressure models	Reading the relevant course presentation			
9	Creation of transplantation models	Reading the relevant course presentation			
10	Establishment of experimental models of obstructive jaundice	Reading the relevant course presentation			
11	Creation of experimental pancreatitis models	Reading the relevant course presentation			
12	Establishment of experimental cholangitis models	Reading the relevant course presentation			
13	Creation of peritoneal adhesion models	Reading the relevant course presentation			
14	Final exam				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources

PROF.DR.HASAN BESIM, DENEYSSEL HAYVAN MODELLERI,
Current literature,
Lecture notes