

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
VIROLOGY	MKBD1212763	Spring Semester	2+0	2	10
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Third Cycle (Doctorate Degree)				
Course Type	Required				
Course Coordinator	Assist.Prof. Özlem GÜVEN				
Name of Lecturer(s)	Assist.Prof. Özlem GÜVEN				
Assistant(s)					
Aim	Having advanced knowledge about viruses, following and interpreting studies in the field of virology				
Course Content	This course contains; General structures, genetic features and virus-host relationships of viruses, Characteristics of DNA viruses, DNA viruses that cause infection in humans, viral pathogenesis, Characteristics of RNA viruses, RNA viruses that infect humans, viral pathogenesis, Immune response mechanisms against viruses, Vaccines and passive immunization methods used against viruses, Antiviral drugs and their mechanisms of action, Genetic characteristics, modes of transmission, human behavior, and environmental factors may pose for virus infections, Laboratory methods used in the identification of viruses.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Explains the structural and genetic features of viruses and virus-host relationships.			10, 16, 9	A	
Explains the characteristics of DNA viruses, DNA viruses that cause infection in humans, and the pathogenesis of viral infection.			10, 16, 9	A	
Explains the characteristics of RNA viruses, RNA viruses that cause infection in humans, and the pathogenesis of viral infection.			10, 16, 9	A	
Explains immune response mechanisms against viruses.			10, 16, 9	A	
Explains vaccines and passive immunization methods used against viruses.			10, 16, 9	A	
Explains antiviral drugs and their mechanisms of action.			10, 16, 9	A	
Interprets the risks of virus infections based on host types, transmission routes, human behavior and environmental factors.			16, 9	A	
Lists the laboratory methods used in the identification of viruses.			10, 16, 9	A	
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	General structures, genetic features and virus-host relationships of viruses				
2	Characteristics of DNA viruses, DNA viruses that cause infection in humans, viral pathogenesis				
3	Characteristics of RNA viruses, RNA viruses that infect humans, viral pathogenesis				
4	Immune response mechanisms against viruses				
5	Vaccines and passive immunization methods used against viruses				
6	Antiviral drugs and their mechanisms of action				
7	Genetic characteristics, modes of transmission, human behavior, and environmental factors may pose for virus infections				
8	Laboratory methods used in the identification of viruses				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources

1. Fields Virology, Lippincott Williams & Wilkins, 2013
2. Reviews in Medical Virology