

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
DIAGNOSTIC METHODS in MEDICAL MICROBIOLOGY	MKBD2231420	Spring Semester	2+8	6	15
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Third Cycle (Doctorate Degree)				
Course Type	Elective				
Course Coordinator	Assist.Prof. Özlem GÜVEN				
Name of Lecturer(s)	Assist.Prof. Özlem GÜVEN				
Assistant(s)					
Aim	Explaining the role of the microbiology laboratory and the tests applied in the diagnosis of infectious diseases, following current technologies, applying basic tests				
Course Content	This course contains; Methods used in the identification of respiratory tract infection agents - microscopy and culture,Methods used in the identification of respiratory tract infection agents - immunology and molecular biology methods,Methods used in the identification of agents of gastrointestinal tract infections - microscopy and culture,Methods used in the identification of agents of gastrointestinal tract infections - immunology and molecular biology methods,Methods used in the identification of urinary system infection agents - microscopy and culture,Methods used in the identification of urinary system infection agents - immunology and molecular biology methods,Methods used in the identification of circulatory system infection agents - microscopy and culture,Methods used in the identification of circulatory system infection agents - immunology and molecular biology methods,Methods used in the identification of nervous system infectious agents - microscopy and culture,Methods used in the identification of nervous system infection agents - immunology and molecular biology methods,Methods used in the identification of skin, soft tissue, bone and joint infectious agents - microscopy and culture,Methods used in the identification of skin, soft tissue, bone and joint infectious agents - immunology and molecular biology methods,Methods used to detect antimicrobial resistance.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Decides and explains the methods to be chosen for the detection of possible microbial agents in clinical samples and applies the basic methods.			10, 16, 17, 9	A	
Evaluates the parameters used and the results obtained in microbiological tests (microscopy-culture, antigen and antibody reactions in immunological tests, evaluation of targets and results in molecular biology tests, antimicrobial resistance tests).			10, 16, 17, 9	A	
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 17: Experimental Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Methods used in the identification of respiratory tract infection agents - microscopy and culture				
2	Methods used in the identification of respiratory tract infection agents - immunology and molecular biology methods				
3	Methods used in the identification of agents of gastrointestinal tract infections - microscopy and culture				
4	Methods used in the identification of agents of gastrointestinal tract infections - immunology and molecular biology methods				
5	Methods used in the identification of urinary system infection agents - microscopy and culture				
6	Methods used in the identification of urinary system infection agents - immunology and molecular methods				
7	Methods used in the identification of circulatory system infection agents - microscopy and culture				
8	Methods used in the identification of circulatory system infection agents - immunology and molecular biology methods				
9	Methods used in the identification of nervous system infectious agents - microscopy and culture				
10	Methods used in the identification of nervous system infection agents - immunology and molecular biology methods				
12	Methods used in the identification of skin, soft tissue, bone and joint infectious agents - microscopy and culture				
13	Methods used in the identification of skin, soft tissue, bone and joint infectious agents - immunology and molecular biology methods				
14	Methods used to detect antimicrobial resistance				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			
Resources					
Koneman's Color Atlas And Textbook of Diagnostic Microbiology. 7th edt. Jones & Bartlett Learning; 2016.					