

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
ADVANCED MICROBIOLOGY-II	MKBD1267850	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	Prof.Dr. Süleyman YILDIRIM				
Name of Lecturer(s)	Prof.Dr. Süleyman YILDIRIM, Prof.Dr. Ayşegül ÇOPUR ÇİÇEK				
Assistant(s)					
Aim	The aim of this course is to provide students with an in-depth conceptual basis for understanding the morphological, taxonomic and pathogenic characteristics of eukaryotic microorganisms and viruses in general, their modes of transmission and mechanisms of antimicrobial resistance.				
Course Content	This course contains; Anatomical and morphological structure, taxonomic and phylogenetic characteristics of fungi, Pathogenesis of fungi and mechanisms of interaction with the immune system ,Dermatophytosis and opportunistic fungi ,Cutaneous fungi,Subcutaneous fungi ,Mycotoxins and their importance ,General characteristics of parasites and mechanisms of interaction with the immune system ,Enteric and urogenital protozoa ,Blood and tissue parasites .				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Knows the general structure, morphological, taxonomic and phylogenetic characteristics of fungi2. Lists the cell structures of fungi and general characteristics of opportunistic fungi3. Counts the common dermatophytosis (tinea) agents in the clinic4. Lists the general characteristics of cutaneous and subcutaneous mycoses 5. Explains systemic mycoses with examples 6. Defines mycotoxins and explains their effects on human physiology 7. Explains the basic concepts related to parasitology8. Describes the basic components (evolution) of parasitology9. Lists medically important parasite groups (Protozoa, Helminths, etc.)10. Describes the relationships between parasite and host organisms11. Describes the method of naming parasites and parasitic diseases12. Explains the sources of parasites or parasitoses13. Gives examples of parasitism types14. Classifies parasite species according to their life forms 15. Gives examples about the ways of entry and exit of parasites into the human / living body16. Discusses the latest scientific articles on the selected topics					
Teaching Methods					
Assessment Methods					
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Anatomical and morphological structure, taxonomic and phylogenetic characteristics of fungi				
2	Pathogenesis of fungi and mechanisms of interaction with the immune system				
3	Dermatophytosis and opportunistic fungi				
4	Cutaneous fungi				
5	Subcutaneous fungi				
6	Mycotoxins and their importance				
7	General characteristics of parasites and mechanisms of interaction with the immune system				
8	Enteric and urogenital protozoa				
9	Blood and tissue parasites				
Evaluation Methods		Weight(%)			
Midterm Exam		50			
General Exam		50			

Resources	
1. Medical Microbiology (7th Edition), Patrick Murray et al.	
2. Jawetz Melnick & Adelbergs Medical Microbiology 28 E	
3. Selected articles	