

Course Name	Code	Term	Theory (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
<b>Microbiology and Parasitology</b>	HEM111	1.Semester/Fall	3	-	-	4
Prerequisites	None					
Language of Instruction	Turkish					
Course Type	Compulsory					
Learning and teaching techniques of the course	Lecture, Discussion, Question and Answer, Brainstorming, Other.					
Instructor(s) of the course						
Aim of the lesson	Comprehending the structural features of microorganisms, the relationship between microorganisms and diseases and the ways of protection from diseases.					
Course Name	<ol style="list-style-type: none"> <li>Can define the structure, metabolism and genetic properties of microorganisms, and the diseases they cause.</li> <li>Can classify antimicrobials</li> <li>Can grasp the Normal Microbial Flora</li> <li>Define sterilization, disinfection methods and hand hygiene</li> <li>Define antigen, antibody structure, immune response and immune response mechanisms</li> <li>Classify and define hospital-acquired and community-acquired infections.</li> </ol>					
Course content	<ol style="list-style-type: none"> <li>Gazel D, Özbek E, Aydoğdu SK (eds). Sağlık Bilimlerinde Klinik Mikrobiyoloji. Akademisyen Kitapevi, Ankara, 2020.</li> <li>Levinson W (eds). Review of Medical Microbiology and Immunology. Şener B, Esen B (çeviri editörleri). Lange Tıp Kitapları Tıbbi Mikrobiyoloji ve İmmunoloji. Ayrıntı Basım ve Yayın Matbaacılık Hiz. San. Tic. Ltd. Şti, Ankara.,2018.</li> <li>Harvey RA (eds) Lippincott's Illustrated Reviews Microbiology, Third Edition. Lippincott'un Şekillerle Açıklamalı Derleme Ders Kitapları: Mikrobiyoloji. Ang Ö (çeviri editörü) Nobel Tıp Kitabevleri Tic. Ltd. Şti, İstanbul, 2017.</li> <li>Murray PR, Rosenthal KS, and Pfaller MA. Medical Microbiology, Eighth Edition, Elsevier, Philadelphia, 2016.</li> <li>Us D. Temel İmmunoloji ve Seroloji. Hipokrat Kitabevi, 2016, Ankara.</li> <li>Mandell GI, Douglas RG, Bennett JE (eds). Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, Eighth Edition, Philadelphia, Elsevier,2015.</li> </ol>					

#### Haftalık Ders Konuları:

WEEKS	TOPICS
1. Week	Introduction to Microbiology: History, Classification of Microorganisms, General Characteristics of Bacteria
2. Week	General Characteristics of Viruses, General Characteristics of Fungi, General Characteristics of Parasites
3. Week	Normal Microbial Flora, Microbiota, Microbiological Sampling, Transport and Storage
4. Week	Sterilization, Disinfection, and Antisepsis
5. Week	Microbiological Diagnostic Methods
6. Week	Antimicrobial Drugs
7. Week	Reproduction and Metabolism in Bacteria, Bacterial Genetics, Host Microorganism Relationship
8. Week	<b>MIDTERM</b>
9. Week	Basic Immunology, Natural and Acquired Immunity
10. Week	Humoral, Cellular Immunity, Hypersensitivity Reactions
11. Week	immunization
12. Week	Respiratory System Infections and Factors, Sexually Transmitted Diseases and Factors, Wound Infections and Factors
13. Week	Food Poisoning, Infections Transmitted by Transfusion of Blood and Blood Components
14. Week	Hospital Infections, Hand Hygiene, Isolation Precautions, Waste Management in Hospitals
15. Week	<b>AN OVERVIEW</b>

**ECTS (Student Work-load Table)**

Activities	Number	Duration	Total Work Load
Length of course	14	3	42
Laboratory			
Practice			
Field Study			
Study time outside of classroom (Free-study/Group work/Pre-study)	14	3	42
Presentation (Video recording/Poster preparation/Focus Group Interview/Questionnaire/Observation and Writing reports)			
Seminar Preparation	1	10	10
Project			
Case Study			
Role-play			
Writing articles-Make criticals			
Time to prepare for midterm exams	1	9	9
Time to prepare for final exam	1	9	9
<b>Total Work Load (hour) / 25(h)</b>	112 / 25=4,48		
<b>Course ECTS</b>	<b>4</b>		

**Evaluation System**

Workload within semester	Number	Contribution
Midterm Exam	1	%40
Quiz		
Laboratory		
Practice		
Field Study		
Course Internship (If there is)		
Assignments		
Presentations and Seminars		
Projects		
Other		
<b>Total Semester Work Load</b>	1	%40
<b>End-of-year Work Load</b>		
Final Exam	1	%60
Assignments		
Practice		
Laboratory		
<b>Total End-of-year Work Load</b>	1	%60
<b>TOTAL</b>	2	%100

**The relationship between learning outcomes and the program qualifications of the courses**

Program Qualifications		Learning Outcomes					
		LO1	LO2	LO3	LO4	LO5	LO6
1.	Have the knowledge and skills to fulfill their professional roles and functions.	5	5	5	4	3	5
2.	Performs, evaluates and records nursing practices toward professional principles and standards.	1	3	2	5	1	4
3.	Practice the health care needs of the individual, family and society with a holistic approach, toward the nursing process.	1	1	1	2	1	2
4.	Communicates effectively with the individual, family, community and health team members.	1	1	2	3	1	3
5.	Performs professional practices toward current scientific data by using information and maintenance technologies.	5	5	5	5	5	5
6.	Have a foreign language proficiency to reach scientific information and communicate effectively.	1	1	1	1	1	1
7.	Behaves in accordance with professional, cultural and ethical values in nursing practices.	3	4	2	5	1	2
8.	Considers the relevant laws, regulations and legislation in nursing practices.	1	1	1	2	1	1
9.	Uses the learning-teaching and management process in nursing practices.	2	1	2	4	1	1
10.	Uses lifelong learning, problem solving, critical thinking and career planning skills to contribute to professional development.	5	3	3	5	3	5
11.	With the awareness of social responsibility, takes part in research, projects and activities in cooperation with the health team and other disciplines.	3	3	3	3	3	3
12.	Contributes to the provision and development of safe and quality health care.	5	5	5	5	3	5

**Level of providing proficiency: 1: Low, 2: Low/Medium, 3: Medium, 4: High, 5: Excellent**