Course Title	Code	Semester	Theoretical (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
Immunology	MİK 506	2. Semester	2	2	0	6

Prerequisites	None
Course Language	Turkish
Course Type	Compulsory
Teaching Methods	Lecture, question- answer, demonstration, practice-exercise
Instructor(s)	
Course Objective	The aim of this course is to acquire basic immunology knowledge.
Course Learning Outcomes	1- Learns the basic structure and functions of the immune system and understands its importance. 2- To have knowledge about the formation of immune response. 3- Learns immunology based tests.
References	1- Temel İmmünoloji: İmmün Sistemin İşlevi ve Bozuklukları (4. Baskı). Abul K. Abbas. 2015. 2- Review of Medical Microbiology&Immunology (10thEdition). Warren Lewinson, 2008.

WEEKLY COURSE TOPICS

Weeks	DISCUSSION TOPICS TO BE PROCESSED
1.	General Defense Mechanisms
2.	Antigen
3.	Structure and Functions of Antibodies
4.	Cells of the Immune System
5.	Organs of the Immune System
6.	Cellular Immune Response
7.	Humoral Immune Response
8.	**Midterm exam**
9.	Complement System
10.	Hypersensitivity Reactions
11.	Immune Tolerance and Autoimmunity
12.	Transplantation Immunology
13.	The Role of Immune System in Tumor Formation and Development
14.	Clinical-Laboratory Tests Used in Immunology
15.	**Final Exam**

ECTS / WORK LOAD TABLE

Activities	Number	Duration	Total Work Load
Course	14	2	28
Laboratory			
Practice	14	2	28
Field Study			
Outclass course work hours (Self working / Teamwork / Preliminary work)	14	4	56
Presentations (Video preparation / Poster preparation / Oral presentation / Focus group discussion / Applying questionnaire/ Observation and report writing)	4	6	24
Seminars			
Project			
Case study			
Role playing, dramatization			
Preparing and criticizing article			
Semester midterm exams	1	7	7
Semester final exams	1	10	10
Total Work Load (hour) / 25(s)	**153/25**		
ECTS	**6**		

EVALUATION SYSTEM

Midterm Studies	Number	Contribution
Midterm exam	1	%30
Quiz		
Laboratory		
Practice		
Field Study		
Specific practical training (If exists)		
Homework assignment		
Presentation and seminar	4	%20
Projects		
Other evaluation methods		
Total of Midterm Studies		%50
Final Studies		
Final	1	%50
Homework assignment		
Practice		
Laboratory		
Total of Final Studies		%50
Contribution of midterm studies to course grade		%50
Contribution of final studies to course grade		%50
Total Grade		100

RELATIONSHIPS BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

Program Qualifications		Learning Outcomes		
		LO1	LO2	LO3
1.	Gains scientific knowledge and skills at the level of expertise in the field of medical microbiology.	**5**	**5**	**5**
2.	Uses the research resources adequately to reach scientific knowledge.	**5**	**5**	**5**
3.	Reaches new information in the field of medical microbiology and synthesizes the information obtained from different sources and evaluates it from a scientific point of view.	**5**	**5**	**5**
4.	Gains awareness about the ethics of scientific work and fulfills ethical responsibilities.	**3**	**3**	**4**
5.	Learns and applies the basic principles of research methods.	**3**	**3**	**5**
6.	Describes the morphological and physiological characteristics of microorganisms.	**2**	**2**	**3**
7.	Works in the laboratory in accordance with biosafety rules.	**2**	**2**	**5**
8.	Have knowledge about the devices and tools that are specific to the field and use them.	**2**	**2**	**4**
9.	Learns and applies laboratory techniques used in the field of medical microbiology.	**2**	**2**	**5**
10.	Knows and applies the basic methods for microbiological examination.	**2**	**2**	**5**
11.	Conducts studies related to the field individually or in a team. Performs the tasks given in scientific studies.	**5**	**5**	**5**
12.	Plans and conducts scientific research by using the knowledge learned in the field of medical microbiology, analyzes and evaluates the results.	**5**	**5**	**5**
13.	Gains the ability to present the information obtained or information related to his / her studies orally and visually.	**5**	**5**	**5**
14.	Follows scientific developments and current studies.	**5**	**5**	**5**
15.	Gains the ability of lifelong learning.	**5**	**5**	**5**

Contribution to the level of proficiency: 1: Low **2:** Low/Moderate **3:** Moderate **4:** High **5:** Excellent