Course Title	Code	Semester	Theoretical (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
Bacterial Identification Methods	**MİK 520**	**1./2. Semester**	**2**	**2**	**0**	**5**
Prerequisites	To study bacteriology course					
Course Language	Turkish					
Course Type	Elective					
Teaching Methods	Lecture, question- answer, demonstration, practice-exercise					
Instructor(s)						
Course Objective	The aim of this course is to learn bacteriological laboratory methods theoretically and practically.					
Course Learning Outcomes	1- To be able to list the isolation and identification steps used in the diagnosis of bacteria 2- Applies basic laboratory techniques in bacteriology laboratory					
References	1- Medical Microbiology. Murray, Rosenthal, Pfaller. Elsevier Saunders, 2016. 2- Koneman's Color Atlas And Textbook of Diagnostic Microbiology (7th Edition). Ahmet Başustaoğlu, Dürdal Us, Hipokrat Kitabevi, 2017.					

WEEKLY COURSE TOPICS

Weeks	DISCUSSION TOPICS TO BE PROCESSED
1.	Bacteriology Laboratory Structure and Design
2.	Collection and Transportation of Bacteriological Sample
3.	Bacteriological Dyes and Dyeing Techniques
4.	Preparation and Examination of Samples
5.	Types of Culture Media
6.	Culture Methods
7.	Evaluation of Cultures
8.	**Midterm exam**
9.	Algorithms for Identification of Gram Positive Bacteria
10.	Algorithms for Identification of Gram Negative Bacteria
11.	Algorithms for Identification of Anaerobic Bacteria
12.	İdentification Methods of Mycobacteria
13.	İdentification Methods of Slowly Growing Microorganisms
14.	Molecular Diagnosis of Bacteria
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	2	28
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)	**125/25**		
ECTS	**5**		

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
1.	Gains scientific knowledge and skills at the level of expertise in the field of medical microbiology.	**5**	**4**
2.	Uses the research resources adequately to reach scientific knowledge.	**5**	**3**
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**	**3**
4.	Gains awareness about the ethics of scientific work and fulfills ethical responsibilities.	**3**	**4**
5.	Learns and applies the basic principles of research methods.	**3**	**5**
6.	Describes the morphological and physiological characteristics of microorganisms.	**5**	**5**
7.	Works in the laboratory in accordance with biosafety rules.	**3**	**5**
8.	Have knowledge about the devices and tools that are specific to the field and use them.	**4**	**5**
9.	Learns and applies laboratory techniques used in the field of medical microbiology.	**5**	**5**
10.	Knows and applies the basic methods for microbiological examination.	**5**	**5**
11.	Conducts studies related to the field individually or in a team. Performs the tasks given in scientific studies.	**4**	**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**
13.	Gains the ability to present the information obtained or information related to his / her studies orally and visually.	**5**	**4**
14.	Follows scientific developments and current studies.	**5**	**4**
15.	Gains the ability of lifelong learning.	**5**	**5**

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