

**Ministry of Higher Education and Scientific Research**



# **Academic Program and Course Description Guide**

**2024**

## Course Description Form

1. Course Name: MICROBIOLOGY-BACTERIOLOGY	
2. Course Code: 6 3 01 5	
3. Semester / Year: YEAR	
4. Description Preparation Date: 2024	
5. Available Attendance Forms: Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)=9	
7. Course administrator's name (mention all, if more than one name)	
Name: Dr Nisreen Jawad Kadhim Email: Nisreen.ja@uowa.edu.iq	
8. Course Objectives	
<b>Course Objectives:</b> This academic program description summarises the principal outcomes of the program, and provides a list of learning objectives that the student is expected to achieve. The student will be expected to demonstrate a reasonable understanding of these learning objectives, and the extent to which they have met the most of the opportunities available to them. It is accompanied by a description of each course within the program.	<b>Program Objectives:</b> To introduce and familiarize with the general terminology in <b>bacteria and Mycology</b> . To understand how different pathogen bacteria, affect their hosts, such as <i>E. coli</i> , <i>Staphylococcus</i> , <i>Streptococcus</i> , <i>Clostridium</i> and Mycology (Fungi causing subcutaneous and systemic infections & Course assessment and discussion. To understand how pathogen bacteria, pathogenesis, symptoms, medical diagnosis and treatment. To learn about epidemiological pathogen bacteria, how they spread and how to control epidemics. <ul style="list-style-type: none"> <li>• To provide students with laboratory techniques related Pathogen bacteria and Mycology..</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> <li>• .....</li> </ul>
9. Teaching and Learning Strategies	
<b>Strategy</b>	<b>Theoretical Objectives:</b>

	<ol style="list-style-type: none"> <li>1. Gain a fundamental understanding of Pathogen bacteria and Mycology and provide a broad foundation of Parasitology knowledge</li> <li>2. Develop the ability to independently seek/obtain knowledge and information</li> <li>3. Enable and train students on how to handle scientific information</li> <li>4. Enable students to evaluate and interpret results, and how to present and discuss them</li> </ol>
--	--

#### 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	3h		Bacteriology		

#### 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

#### 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Medical microbiology -Jawetz
Main references (sources)	Medical microbiology -Jawetz Medical Microbiology Editor: Samuel Baron
Recommended books and references (scientific journals, reports...)	<p>Medical Microbiology, 9th Edition Authors :Patrick R. Murray &amp; Ken S. Rosenthal &amp; Michael A. Pfaller</p> <p><b>Robbins &amp; Cotran Pathologic Basis of Disease (Robbins Pathology)</b></p> <p><b>Basic Immunology: Functions and Disorders of the Immune System</b> Edition by <a href="#">Abul K. Abbas MBBS</a></p> <p><b>Medical Microbiology 10th Edition</b> by <a href="#">Patrick R. Murray PhD F</a></p>
Electronic References, Websites	<b>Clinical Microbiology and Infectious Diseases</b>

**Practical Objectives:**

1. Practicing laboratory techniques and skills in the field of Pathogen bacteria and Mycology, culture and diagnosis of common and pathogenic bacteria and Mycology.
2. Learning to handle laboratory material, sterilization methods, and controlling the spread of bacteria and Mycology diseases
3. Learn how to determine the treatment, antibiotics and pathogenicity of bacteria and Mycology
4. Understand the immunological changes and those associated with infection, and knowledge of diagnostic methods and analysis of their results

**Teaching and Learning Methods**

Lectures on the theory, using projectors and smart screens.

Discussions in small groups.

Group research projects, where students research topics, discuss and present them.

The practical learning material is explained in the laboratory.

Laboratory experiments and examination of pathological parasites

**Assessment Methods**

1. Daily and monthly exams
2. Oral exams
3. Exams to assess knowledge of the practical learning material
4. Reports and presentations, where the students are evaluated on their ability to present, discuss, and answer questions on the research/report/presentation topic
5. Seminars

**Ethical Objectives**

1. Patient confidentiality and information protection
2. Humane treatment of patients, especially terminally ill patients, and breaking bad news to a patient and/or their loved ones
3. Understanding the responsibility of the profession, and not prioritizing material gains over the ethical responsibilities

**Assessment Methods**

- Oral exams
- Daily / Semester written exams
- Seminars on ethics and morals related to the profession/specialty

General and Transferrable Skills (Other skills related to employability and personal development)

- 1- Learning how to deal/behave with colleagues and patients in the workplace
- 2- Develop presentation skills and how to manage a class
- 3- Report writing and evaluating results

### Teaching and Learning Methods

Laboratory training and applying a variety of lab techniques related to bacteria and Mycology, sample preparation methods, and writing reports for each experiment. Lectures that provide general guidance on laboratory management and communication techniques required at work.

### Assessment Methods

1. Daily and monthly exams
2. Oral exams
3. Exams to assess knowledge of the practical learning material
4. Reports and presentations, where the students are evaluated on their ability to present, discuss, and answer questions on the research/report/presentation topic
5. Seminars

### Program Structure

Hours per week		Course Name	Course Code	Year
Practical	Theory			
60 – 2 hrs/week	45 – 2 hrs/week	Bacteriology	50101317	3

### Personal Development Objectives

- Develop independent-learning skills
- Learn how to leverage technology to obtain information – Internet Technology

- Develop teamwork and group-learning
- Develop leadership and mentoring skills

### **Admission Criteria (requirements to join the College/Institute)**

Central admission, students with very high GPA (>97%) at Baccalaureate level.

### **Primary Course Material**

- Lectures
- Textbook
- Laboratory instructions
- Websites