Ministry of Higher Education and Scientific Research

Academic Program and Course Description Guide

2024

Course Description Form

1. Course Name:Microbiology-mmunology

2. Course Code: : 2

3. Semester / Year: Semester

4. Description Preparation Date:2024

5. Available Attendance Forms: Attendance

6. Number of Credit Hours (Total) / Number of Units (Total):15 hours/ 4.5 crediv

7. Course administrator's name (mention all, if more than one name)

Unit 2 Coordinator:Dr Nisreen Jawad Kadhim
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8. Course Objectives

Program Objectives: To introduce and familiarize with the general terminology in Immunology. To understand how immunology plays an important role in host defense. To understand how the body defense mechanisms works in combating different pathogens To learn about immunological diseases, pathophysiology and treatment modalities. To provide students with the laboratory techniques related Immunology.	Theoretical Objectives: 1. Gain a fundamental understanding of Immunology and provide a broad foundation of Immunology knowledge 2. Develop the ability to independently seek/obtain knowledge and information 3. Enable and train students on how to handle scientific information 4. Enable students to evaluate and interpret results, and how to present and discuss them •

9.

Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
	2 h		Immunology		

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 Human Biology, by Sylvia Mader
Main references (sources)	Medical microbiology -Jawetz Medical Microbiology Editor: Samuel Baron Human Biology, by Sylvia Mader
Recommended books and references (scientific journals, reports...)	Medical Microbiology, 9th Edition Authors :Patrick R. Murray & Ken S. Rosenth & Michael A. Pfaller **Robbins & Cotran Pathologic Basis of Disea** **(Robbins Pathology)** **Basic Immunology: Functions and Disorders** **the Immune System 7th Edition** by Abul K. Abbas MBBS **Medical Microbiology 10th Edition** by Patrick R. Murray PhD F
Electronic References, Websites	**Clinical Microbiology and Infectious Disease**

Practical Objectives:

1. Practicing laboratory techniques and skills in the field of Immunology, Serology and diagnosis of common pathogens.
2. Learning to handle laboratory material and certain immunological techniques.
3. 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.
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 Immunology, 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			
2 hrs/week	15 – 1 hrs/week	Immunology		1

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