

Beni-Suef University Faculty of Dentistry Quality Assurance Unit Course Specification



University: **Beni-Suef** Faculty: **Dentistry**

Course Title: **Microbiology** 1 Course code: **MMB 222**

Program on which the course is given: Bachelor's degree of Dental Science, Graduate

program

Department offering the course: **Microbiology Department, Faculty of Medicine**Academic year: **2023/2024** Academic level: **second year** Semester: **2**nd

Date of specification approval: September 2023

A-Basic Information

Academic Year:	2023-2024
Course Code:	MMB 222
Course Theoretical (contact hours)	1hr*16w
Practical (contact hours)	2hr *16 w
Total Hours: -	3 hours

B-Professional Information

1-Overall aims of course

The course will introduce the students to the field of immunology, innate and acquired. They are also introduced to immune response and certain immunologically associated phenomena such as hypersensitivity reactions and autoimmunity. Also by the end of the course, the students should be able to viral structure and types and be able to differentiate between different ones and knowledge about antiviral drugs.

2-Intended learning outcomes of course (ILOs)

a- Knowledge & understanding:

- a1- Describe the general properties of viruses, viral disease pathogenesis, viral replication, and antiviral drugs.
- a2- Define the different types of viruses.

- a3- State the characteristics of innate and adaptive immunity, antigen, antibody, and complement system.
- a4-Describe the immune response, hypersensitivity reaction, and autoimmunity.

b-Intellectual skills:

- b1- Analyze the different disciplines of microbiology in the medical and dental fields.
- b2- Compare between the different microorganisms.
- b3- Assess the general properties of viruses, blood-borne viruses, HIV, and Herpes Viruses.
- b4- Contrast between innate and acquired immunity.
- b5- Evaluate immunological disorders, hypersensitivity reactions, and autoimmunity.

c- Professional and practical skills:

- c1- Distinguish different types of microorganisms.
- c2- Apply the methods of sterilization and disinfection.

d-General and transferable skills:

- d1- Work effectively as part of a team to produce reports.
- d2- Study independently.

3-Contents:

Topic	Lectures (1hrs)	Practical (2hrs)	weighting
Structure and classification of viruses	10	10	65%
Immunity and hypersensitivity reaction	5	5	35%

4- Teaching and learning methods

a-Small group discussion / Brain storming.	Yes
b- Interactive lecture	<u>ves</u>
c- Demonstrations.	<u>yes</u>

5- Student assessment methods

a. Written and short answer questions	Yes
b. Written and long essay.	yes
c. Multiple choice questions (MCQ)	yes
d. True or false question with justifying answer.	yes
e. Practical / OSPE.	yes

6- Assessment schedule

Assigment	Time
Midterm exam	March 2024
Practical exam	May 2023
Oral exam	June 2024
Final exam	June 2024

Weighting of assessments

	Written	Practical	Oral Exam	Midterm	Total
				course work	
Final Exam	40	20	20	20	100

List of reference;

1- Course notes

2- Essential books:

Microbiology: An introduction, $13^{\rm th}$ edition. GerardJ.Tortora.

Brock Biology of Microorganisms (14th ed.). Madigan, M. and Martinko, J.

Course coordinator: Dr MostafaElsheemy

Head of Department:Dr Mostafa Elsheemy

Date: September 2023