



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



University: **Beni-Suef**

Faculty: **Dentistry**

Course Title: **Microbiology 1**

Course code: **MMB 211**

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: **one**

Date of specification approval: **September 2023**

### **A-Basic Information**

Academic Year:	2023-2024
Course Code:	MMB 211
Lecture hours:	1hr*14w
Practical hours:	2hr *14 w
Total Hours:	3 hours

### **B-Professional Information**

#### **1-Overall aims of course**

By the end of the course, the student should be able to emphasize the general characteristics of eukaryotes and prokaryotes, structure and function of bacterial cell wall, the internal and external structures of bacteria and their different functions. In addition to important information about pathogens that cause human diseases. Also, the importance of normal bacterial flora in different body sites including the oral cavity.

#### **a- Knowledge & understanding:**

a1- Define different types of microorganisms and infectious agents, including bacteria, fungi (Candida sp.), and viruses.

a2- Describe the different internal and external bacterial structures.

a3- Identify bacterial genetics: Structure and function of the genetic material. Genotype and phenotype. Acquisition of new genes, antibiotic resistance and PCR.

a4- Define the different diseases caused by Streptococci, Staphylococci, Neisseria and Mycobacterium tuberculosis.

**b-Intellectual skills:**

b1- Analyze the different disciplines of microbiology in the medical and dental fields.

b2- Compare between the different microorganisms.

**c- Professional and practical skills:**

c1- Use different staining techniques to identify different 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:**

<b>Topic</b>	<b>Lectures (1hr)</b>	<b>Practical (2hrs)</b>	<b>weighting</b>
Introduction to microbiology	3	3	23%
Morphology of bacteria and different species	10	1	77%

**4- Teaching and learning methods**

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

**5- Student assessment methods**

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

## **6- Assessment schedule**

Assigment	Time
Midterm exam	November 2023
Practical exam	December 2023
Oral exam	January 2024
Final exam	January 2024

## **Weighting of assessments**

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

## **- List of reference;**

1- Course notes

2- Essential books: Microbiology: An introduction, 13<sup>th</sup> 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**