**Theoretical and practical courses**

Introduction to the course: General Microbiology the first semester of the academic year:

School: Health Department: Microbiology

Course and degree: Continuing Bachelor of Environmental Health time and place:

Number and type of unit (theoretical): 0.5 theoretical unit -0.5 practical unit

(course instructor): 0.5 theoretical unit -0.5 practical unit

Prerequisite courses: No

Office address: Department of Microbiology

Phone and call days:

**General Objective of the course**: Familiarity of students with the generalities of bacteria and virology and infectious diseases and the basic principles of laboratory diagnosis

**Course Description**: General Microbiology

**Specific or partial objectives of the course:**

At the end of this course, the student is expected to be able to:

Explain the types of bacteria and their classification.

Describe the anatomical structures of bacteria.

Describe sterilization methods.

Explain the types of culture media and methods of making and growing bacteria

Describe the antibiotic susceptibility test.

Describe the types of important bacteria and the diseases that result from them

Describe the generalities of virology and viral diseases.

**Student duties (student homework during the semester):**

1- Attending all class sessions

2- Learning the content presented in class

3- Student readiness to answer oral and written questions in class

4- Holding class conferences

5- Obtaining a passing score in the midterm and final exam

**The main sources of the lesson:**

Murray Medical Microbiology latest edition

**Teaching methods + teaching aids used:**

Lectures, use of PowerPoint, participatory and student-centered education

Virtually held if needed

Methods and time of assessment and evaluation of the student and the bar related to each evaluation:

Class exams

Final test in the form of a four-choice test

How to calculate the total score

Class Quiz 2 points

Midterm exam 6 points

Final test 12 points

Lesson rules and expectations from students:

**Schedule and predicted contents of each theory session**

|  |  |  |
| --- | --- | --- |
| session | topic | Necessary preparation of students before the start of the class |
| 1 | History, classification, structure, and bacterial practices | Timely class attendance |
| 2 | Growth, metabolism and genetics of bacteria | Timely class attendance - Review of the previous session |
| 3 | Antimicrobials (disinfectants and antibiotics) | Timely class attendance - Review of the previous session |
| 4 | Gram-positive purulent cocci | Timely class attendance - Review of the previous session |
| 5 | Gram-negative purulent bacteria | Timely class attendance - Review of the previous session |
| 6 | Enterobacteriaceae and related bacteria | Timely class attendance - Review of the previous session |
| 7 | Pseudomonas, fungal-like bacteria and zoonotic bacteria | Timely class attendance - Review of the previous session |
| 8 | Uncommon bacteria (Mycoplasma, Rickettsia, Chlamydia, etc.) Legionella and spirochetes | Timely class attendance - Review of the previous session |