**Practical pathology microbiology lesson plan**

Ilam University of Medical Sciences

Introduction to the course: Practical pathobiology in the field of biology and control of disease carriers

School: Health

Field and degree: Biology and control of disease carriers - Bachelor

Number and type of units (theoretical): 0.5 practical units

Prerequisite courses: None

Phone and call days:

The first semester of the academic year 1400-1399

Department: Department of Microbiology, School of Medicine

Day, time and place: Sunday 4-2, Tuesday 10-8, Wednesday 12-10

Name of the person in charge of the course (course instructor):

Office Address: Department of Microbiology, School of Medicine

**General Objective of the course**: Familiarity of students with the general laboratory diagnosis of bacteria and virology, knowledge of different types of bacteria and viruses

Course description: Practical pathobiology in the field of biology and disease vector control

**Specific or in detail objectives of the course:**

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

1- The student should get acquainted with different types of microscopes and methods of use.

2- The student should get acquainted with different types of microbial culture media and culture methods.

3- The student should get acquainted with different types of bacterial staining.

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

1- Attending all class sessions 2- Learning the material presented in class

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

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

The main sources of the course: Mahon Microbiology - Murray Medical Microbiology, latest edition Murray Medical Microbiology, latest edited

Teaching methods + teaching aids used:

Lectures in addition to the use of whiteboards and practical work in the laboratory

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

 Laboratory end-of-semester theory exam with four options and short answer of 8 points

Practical exam at the end of the semester 12 points.

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

|  |  |  |  |
| --- | --- | --- | --- |
| row | session | title | Necessary preparation of students before the start of the class |
| 1 | first | Introduction to Bacteriology Laboratory Safety tips and how to work with a microscope |  |
| 2 | second | Familiarity with sterilization methods |  |
| 3 | third | Identify the types of culture media and manufacturing methods |  |
| 4 | fourth | Identify different methods of culturing bacteria |  |
| 5 | fifth | Bacterial staining (done hot) |  |
| 6 | sixth | MIC, MBC and E-test antibiograms |  |
| 7 | seventh | Identification of gram-positive and gram-negative bacteria |  |