**Ilam University of Medical Sciences**

**Public Health Microbiology Lesson Plan**

Theoretical and practical courses

Introduction to the course: Pathobiology (bacteria and viruses) - Biology and control of disease carriers

School of Health

Field and degree: Biology and control of disease carriers

Number and type of unit (theoretical): A theoretical unit

Prerequisite courses: None

The first semester of the academic year 1400-1399

Department: Microbiology Department

Day, time and place: Saturday 12-10

Number and type of unit (theoretical): A theoretical unit

Prerequisite courses: None

 Name of lecturer :

Office Address: Department of Microbiology

Phone and call days:

General purpose of the course: Familiarity of students with the generalities of bacteria and virology, knowledge of different types of bacteria and viruses

Course description: Pathobiology (bacteria and virus)

**Specific or partial objectives of the course: The student is expected to be able to:**

1. The student learns the structure, classification, methods of reproduction, ways of entering bacteria and viruses.
2. The student should learn important bacterial and viral diseases in humans and be able to prevent them

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

1- Attending all class sessions

 2- Learning the materials presented in the 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:**

1- Jawtz Medical Microbiology, latest edition Medical Microbiology Jawetz, latest edited

Murray Microbiology, latest edition Medical Microbiology Murray, latest distending a passing score in the midterm and final exam

2- Murray Microbiology, latest edition Medical Microbiology Murray, latest edited

**Teaching methods + teaching aids used:**

Lecture in addition to using whiteboards and teaching aids such as video projectors (power point software)

Virtual training if necessary

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

Oral questions and answers

- Weekly quiz in four options or descriptive

- Midterm exam in four options, descriptive and short answer

- The final exam is in four options

**How to evaluate:**

-Oral questions and answers. Score

- Weekly quiz in four options or descriptive 2 points

- Midterm exam in four options, descriptive and short answer 5.5 points

- The final exam of the semester in four options of 12 points

Lesson rules and expectations from students:

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

|  |  |  |  |
| --- | --- | --- | --- |
| row | session | Title | Necessary preparation of students before the start of the class |
| 1 | first | History, classification, structure and functions of bacteria | Attend class on time |
| 2 | second | Growth, metabolism and genetics of bacteria | Attend time in class - review the lesson of the previous session |
| 3 | third | Antimicrobials (disinfectants and antibiotics) | Attend time in class - review the lesson of the previous session |
| 4 | fourth | Gram-positive purulent cocci and gram-negative purulent bacteria | Attend time in class - review the lesson of the previous session |
| 5 | fifth | Enterobacteriaceae and related bacteria | Attend time in class - review the lesson of the previous session |
| 6 | sixth | Pseudomonas, fungal-like bacteria and zoonotic bacteria | Attend time in class - review the lesson of the previous session |
| 7 | seventh | Uncommon bacteria (Mycoplasma, Rickettsia, Chlamydia legionella and spirochetes, etc.) | Attend time in class - review the lesson of the previous session |
| 8 | eighth | Toxin-producing bacteria and anaerobic bacteria without spores | Attend time in class - review the lesson of the previous session |
| 9 | ninth | General virology and antiviral drugs | Attend time in class - review the lesson of the previous session |
| 10 | tenth | DNA viruses | Attend time in class - review the lesson of the previous  |
| 11 | eleventh | RNA viruses | Attend time in class - review the lesson of the previous session |
| 12 | twelfth | Viral diseases | Attend time in class - review the lesson of the previous session |