



Faculty :

Department :

Module Syllabus

Module Name: Microbiology for nursing

Module Number: ...240214.....

Level: 2...

Credit Hours: ... 3

Prerequisite / Co-Requisite: ... 240102.

Lecturer: Dr. Marwan Abu-Halaweh, Assistant Professor

Office Number: ... 1016.

Office Hours: ... Monday: 12:00-1:00

Tuesday: 12:00 - 2:00

Thursday: 8:00 – 9:00

Phone: +962-2-6300200

Ext: ... 489

E-mail:stdbio@philadelphia.edu.jo

Module Coordinator: ... Dr. Marwan Abu-Halaweh.....

Aims (Module Purpose):

An introductory course providing you with an understanding of the key microbiological concepts relevant to nursing and client care. Progresses from the discussion of nosocomial infections to various aspects of microbiological infections to various aspects of microbiology. Includes the basic characteristics of microorganisms as well as the relationship between microbes, humans and their environment. Emphasizes the application of these concepts in the identification, prevention and treatment of infectious diseases. Also includes selected topics on microbial agents with emerging significance, to keep you aware of the trends in microbiology.

Teaching Methods:

Lectures

Learning Outcomes:

At the end of this module, student will be able to:

- Become aware of the presence of microorganisms in the human body, workplace and home environments.
- Summarize the difference between prokaryotes and eukaryotes as well as the prokaryotes and eukaryotes cell structure.
- Summarize growth nutrition of microorganism



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- Apply basic microbiological principles to effective infection control.
- Introduction to Virology, Parasitology, and Mycology.
- Summarize the basic concepts of nosocomial infections and their prevention.
- Summarize the need for the practice of proper specimen collection and handling.
- Describe the basic characteristics of the major microbial classes (e.g., bacteria, viruses, protozoa and pathogenic fungi).
- Define epidemiology and its significance in the control of communicable diseases.
- Discuss the concept of communicability of microorganisms on the basis of the transmission modes.

Contribution to Program Learning Outcomes:

(Knowledge and Understanding, Intellectual Skills, Practical Skills, Transferable Skills, ...etc).

Module Outline:

Week	Date	Subject
(1)		Introduction to microbiology
(2)		Morphology and structure of Microorganism
(3)		Growth and nutrition of Microorganism, Antimicrobial chemotherapy
(4)		Antimicrobial chemotherapy, Disinfection and sterilization
(5)		Host Parasite relationship, normal flora
(6)		Immunity and vaccination
(7)		Microbial and viral diseases of skin and eye
(8)		Upper Respiratory tract infection
(9)		Lower Respiratory tract infection
(10)		Gastrointestinal tract infection
(11)		Gastrointestinal tract infection
(12)		Urinary and genital tract infection
(13)		Urinary and genital tract infection
(14)		Hospital Acquired infection
(15)		Hospital Acquired infection
(16)		Hospital Acquired infection

Modes of Assessment:

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Modes of Assessment:	Score	Date
First Exam	25	
Second Exam	25	
Assignment / Seminar / Project / Quizes / tutorial	0	
Final Exam (Comprehensive; written, verbal, hand-ins, Etc.)	50	

* *Make-up exams will be offered for valid reasons only with consent of the Dean. Make-up exams may be different from regular exams in content and format.*

Attendance Policy:

Lecture attendance is mandatory. Student is allowed maximally 15% absentia of the total module hours.

More than this percentage, student with an excuse will be drawn from the module. Otherwise, student will be deprived from the module with zero mark assigned.

Expected Workload

On average you should expect to spend at least (3) hours per week on this module.

Text Book(s) and Supporting Materials:

Text book(s):

Title: Microbiology for Nurses 2nd edition.

Author(s)/Editor(s): RL. Ichhpujani and Rajesh Bhatia

Publisher: JAYPEE Brothers, New Delhi

ISBN: **81-8061-146-9**

In addition to the above, the students will be provided with handouts by the lecturer.

References:

Students will be expected to give the same attention to these references as given to the Module textbook(s)

Talaro, K.P. 2005. *Foundations in Microbiology*. 5th ed. McGraw Hill

1. -----
2. -----

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Website(s):

