

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	General Microbiology
Course number	MEDI3402
Faculty	
Department	
Course type	College Needs
Course level	3
Credit hours (theoretical)	3
Credit hours (practical)	1
Course Prerequisites	

#### Course Objectives

- 1 - To recognize the structural components of microbes (viruses and parasites) and medical insects and how these impact the pathogenesis of disease
- 2 - To know the common microorganisms associated with specific clinical diseases and what factors are involved in pathogenesis
- 3 - To appreciate the role of vaccines in disease prevention
- 4 - To appreciate the role of the clinical laboratory in diagnosis and management of infectious diseases
- 5 - To develop the ability to correlate the clinical picture with laboratory information to establish a diagnosis

#### Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none"> <li>* Students know the structural components of microbes (bacteria and fungi)</li> <li>* Students know the pathogenesis of disease caused by bacteria and fungi</li> <li>* Students understand the clinical findings caused by bacteria and fungi</li> <li>* Students understand the laboratory diagnosis of diseases caused by bacteria and fungi</li> </ul>
Intellectual Skills	<ul style="list-style-type: none"> <li>* Students' clinical sense is developed</li> <li>* Students could make a differential diagnosis for patients presented with infectious diseases</li> </ul>
Professional Skills	<ul style="list-style-type: none"> <li>* Students are able to analyze the process of different laboratory of bacterial and fungal infections</li> <li>* Students are able to do cultures, culture and sensitivity for diagnosis of certain parasites</li> </ul>

## Course Contents

- 1 - Basic Virology
- 2 - DNA enveloped Viruses
- 3 - DNA non-enveloped Viruses
- 4 - RNA enveloped Viruses
- 5 - RNA non-enveloped Viruses
- 6 - Hepatitis Viruses
- 7 - Arbo viruses, HIV
- 8 - Tumor Viruses, Slow Virus & Prions
- 9 - Intestinal and Urogenital Parasites
- 10 - Blood and Tissue Parasites
- 11 - Minor Protozoan Pathogens
- 12 - Cestodes and Trematodes
- 13 - Nematodes
- 14 - Ectoparasites

## Teaching and Learning Methods

- 1 - The course will utilize different teaching and learning methods to achieve the course objectives. For each session the instructor will give an overview of the session and then discussion, group work, presentations and assignments will be carried out with an active participation of students. The students will also be asked to reflect on the readings and handouts from each session

## Teaching and Learning Methods for the Disabled Students

- 1 - No disabled

## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Midterm		20%
Laboratory		20%
Final		60%

## Books and References

Course note	Warren Levinson (2010). Review of Medical Microbiology and Immunology. Department of Microbiology and Immunology. University of California, San Francisco. San Francisco, California Handouts and other references and materials will be assigned for each session. The students are also required to obtain different articles and course materials as part of the course work and assignments.
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