



COURSE SPECIFICATION

(Advanced Medical Bacteriology)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course.	Programme for Postgraduate master degree of Medical Microbiology and Immunology
(2) Department offering the programme .	Medical Microbiology and Immunology
(3) Department responsible for teaching the course.	Medical Microbiology and Immunology dep.
(4) Part of the programme .	Second part
(5) Date of approval by the Department`s council	7/8/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title.	Advanced Medical Bacteriology
(8) Course code.	MIC507AB
(9) Credit hours	1 Credit hour
(10) Total teaching hours.	15 h lectures

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows. (either to be written in items or as a paragraph)

- 1- To give the candidate updated knowledge of the bacterial pathogenesis and virulence.
- 2- To develop the candidate's advanced knowledge of antibacterial agents.
- 3- To give the candidate updated knowledge of the bacterial infections.

(2) Intended Learning Outcomes (ILOs):

Intended learning outcomes (ILOs); Are four main categories: knowledge & understanding to be gained, intellectual qualities, professional/practical and transferable skills.

On successful completion of the course, the candidate will be able to.

A- Knowledge and Understanding

- A 1 Outline the nanoparticle as bactericidal agents
- A2 Recognize new emerging and reemerging pathogens.
- A3 Recognize quorum sensing as factor of bacteria
- A4 Recognize human microbiota and its role in disease.
- A5 Recognize bacteria as bioterrorism agents.

2- Intellectual activities (I)

The Postgraduate Degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities.

B- Intellectual skills

- B1 Explain the role of nanoparticiles in treatment of bacterial infections
- B2 evaluate antivirulent factor for the end of the era of antibiotics
- B3 Assess the role of quorum sensing in virulence and resistance of antibiotics
- B4 Interpret the value of probiotics as natural remedy to fight infection
- B5 Achieve a solution to bioterrorism agents

(3) Course content.

Subjects	Lectures	Laboratory	Field
nanoparticle as bactericidal agents	3hours		
emerging and reemerging pathogens	3hours		
quorum sensing	3hours		
human microbiota	3hours		
bioterrorism bacteria	3hours		

(4) Teaching methods.

4.1. Lectures

4.2. Seminars

4.3. Attending workshops and conferences

4.4 Observation of, assisting and discussion with senior medical staff

(5) Assessment methods.

5.1.Written exam for assessment of knowledge and intellectual ILOS

5.3. MCQ continuous assessment exam for assessment of knowledge and intellectual ILOS

Assessment schedule.

Percentage of each Assessment to the total mark. (assessment of the total microbiology course)

Written exam...., 40 marks

MCQ:....., 10 marks

Other types of assessment.....None..... %:.....

Other assessment without marks.

1-Candidate Logbook which should be fulfilled and signed by Head of the department.

1- Attendance Criteria: Minimum acceptance attendance is 75%

(6) References of the course.

6.1. Hand books. Hand out of lecturers

6.2: Text books...

1. Topley and Wilson's Microbiology and Microbial infections. 8 volume, 2005, 10th edition
2. Color Atlas and Textbook of Diagnostic Microbiology: Elmer W Koneman 2006, 6th edition
- 3- Jawetz, Melnick and Adelbergs Medical Microbiology, 2004, 23rd edition.

6.3: Journals:

1. Clinical Microbiology Reviews
2. Journal of Clinical Microbiology
3. Journal of Medical Microbiology
4. Journal of Microbiological Methods
5. Indian Journal of Medical Research.

6.1. Websites.

- 1-Center for Disease Control -www.cdc.gov
- 2-World Health Organization- www.who.int
- 3-National Library of medicine- www.pubmed.com
- 4-MD Consult- www.mdconsult.com

1. Facilities and resources mandatory for course completion.

1. Lecture halls.
2. Data shows and computer assistance.
3. Reagents for mycological diagnosis

Course coordinator: Dr. Rasha Hassan

Head of the department: Prof. Dr. Mohammad Abou El ela

Date: