



COURSE SPECIFICATION

(Advanced Medical Immunology)

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	Programme for Postgraduate MD 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 Immunology
(8) Course code:	MIC607AI
(9) Credit hours	2 credits
(10) Total teaching hours:	30 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 provide the candidate with detailed exploration of elements of advanced medical immunology namely mucosal immune system, cancer immunoediting, apoptosis and rheumatoid arthritis.
- 2- To promote the candidate to understand the relation between the previous immunological diseases and the role of the immune modulation in their therapy.

(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 To recognize what is the cancer immunoediting and their mechanisms.
- A 2 To describe the apoptosis, its mechanisms and its role in health and disease.
- A 3 To recognize the role of immune system in rheumatoid arthritis and how it can be modified for therapy.
- A 4 To describe NK cells as a guide control in cancer from biological function to its therapy.
- A 5 To recognize the mucosal immune system, its components and their vaccines.

- B1 Interpret the cancer immunoediting mechanisms.
- B 2 Recognize the apoptosis.
- B 3 Achieve a specific or differential diagnosis in rheumatoid arthritis and its therapy.
- B4 Recognize the mechanisms and role of NK cells in cancer and its therapy.
- B5 Recognize the mechanism of mucosal immunity and its vaccines.

(3) Course content:

Subjects	Lectures	Laboratory	Field
Cancer immunoediting	5		
Apoptosis in health and disease	5		
Rheumatoid arthritis therapy, an update	5		
Bone marrow transplantation	5		
Cancer vaccines	5		
Mucosal immune system and mucosal vaccines	5		

(4) Teaching methods:

- 4.1. Lectures
- 4.2. Seminars
- 4.3. Laboratory classes.
- 4.4. Attending workshops and conferences
- 4.5 Observation of, assisting and discussion with senior medical staff

(5) Assessment methods:

- 5.1. Written exam for assessment of ILOs number; A 1-5, B 1-5
- 5.2 MCQ exam for assessment of ILOs number; A 1-5, B 1-5

Assessment schedule:

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

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: Department theoretical books & handouts given by lecturers

6.2. Text books:...

1. Immunology: Janis Kuby- 2003.
2. Basic Clinical Immunology. Fudenburg, Stites, Caldwell, Weils-1997

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- Immunology

6.1. Websites:

Nature Reviews: <http://www.nature.com/nrg/focus/microgen/index.html>

National Library of medicine- www.pubmed.com

MD Consult- www.mdconsult.com

1. Facilities and resources mandatory for course completion.

1. Lecture halls.
2. Data shows and computer assistance.
3. Immunology laboratory.
4. Chemicals for immunological techniques.

Course coordinator: Dr Enas Hammad

Head of the department: Prof. Mohammad Abou EL-ela

Date:

P.S. This specification must be done for each course.