

COURSE SPECIFICATION

(Advanced Medical Immunology)

Faculty of Medicine - Mansoura University

(A) Administrative information

(1) Programme offering the course.	Programme for Postgraduate master degree of Medical Microbiology and Immunology Medical Microbiology and Immunology		
(2) Department offering the programme:			
(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	1 credits		
(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 provide the candidate with detailed exploration of elements of advanced medical immunology namely mucosal immune system, cancer vaccine
- **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 describe the apoptosis, its mechanisms and its role in health and disease.
- A 2 To describe NK cells as a guide control in cancer from biological function to its therapy
- A 3 To describe the potential development of cancer vaccine
- A 4 To recognize the mucosal immune system, its components and their vaccines.

B- Intellectual skills

- B1. Recognize the apoptosis.
- B 2 Predict the role of NK cells in cancer and its therapy.
- B 3 Analyze the mechanism and role of cancer vaccine

(3) Course content:

Subjects	Lectures	Laboratory	Field
NK celb	3		
Apoptosis in health and disease	5		
Bone marrow transplantation			
Cancer vaccines	2		
Mucosal immune system and mucosal vaccines	5		

- (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
 - 5.2MCQ exam for assessment of knowledge and intellectual ILOS

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. Ghada maghawry – Dr. doaa tawfik

Head of the department: Prof. Mohammad Abou EL ela

Date:

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