



COURSE SPECIFICATION

Immunology

Faculty of Medicine Mansoura University

(A) Administrative information

(1) Programme offering the course.	MD Degree of Histology &	
	Cytology	
(2) Department offering the programme.	His <mark>tolo</mark> gy and Cell Biology	
J. / /	Department	
(3) Department responsible for teaching the	Medical Microbiology and	
course:	Immunology Department	
(4) Part of the programme.	Second part	
(5) Date of approval by the Department's	3/5/2016	
council	549	
The state of the s	STATE.	
(6) Date of last approval of programme	9-8-2016	
specification by Faculty council		
(7) Course title:	Immunology	
(8) Course code:	HIST 602 IM	
(9) Credit hours:	2	
(10) Total teaching hours.	30	

(B) Professional information

(1) Course Aims.

The broad aims of the course are as follows.

- 1. To provide the candidate with elements of basic immunology namely lymphocyte biology, antigen presentation, humoral, cellular, mucosal immune responses, inflammation, complement and cytokines.
- 2. To promote the candidate's understanding of diseases related to the immune system emphasizing the hypersensitivity reactions, autoimmunity and immunodeficiency diseases.

(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- Recognize the normal immune system.
- A 2- Describe the mechanisms of innate immunity.
- A 3– Explain the Complement and kinin systems
- A 4– Recognize antigens, Immunoglobulins and understand antigen antibody reactions, antigen presentation and the major histocompatibility complex.
- A 5 Discuss inflammation and the inflammatory response.
- A 6- Recognize the humoral and cell mediated immune response
- A 7– Explain the mucosal immune system and the hypersensitivity reactions.
- A 8– Explain Immune tolerance and principles of autoimmunity.
- A 9– Explain the basics of the immunodeficiency diseases, transplantation immunity, and tumour immunity

B- Intellectual skills

B 1– Interpret the warning signs of immune disorders.

B 2- Achieve a specific or differential diagnosis

B 3- Analyze and explain the type of graft rejection.

B 4- Recognize the mechanism of autoimmune diseases.

Course content:

Subjects	Lectures	Seminars
1-Normal immune system	2	
2- Innate immunity	2	
3- Complement and kinin systems	2	
4- Antigens	1	
5- Immunoglobulins and immunoglobulin genes	2	
6- Antigen - antibody reactions	2	
7- Major histocompatibility complex	2	
8- Inflammation	2	
9- Humoral mmune response 2	2	
10- Cell mediated immune response	2	
11- Cytokines and chemokines	2	
12- Mucosal immune system	1	
13-Hypersensitivity reactions	1	
14-Immunodeficiency diseases	2	
15- Immune tolerance and autoimmunity	2	
16- Transplantation immunity	1	
17- Tumour immunity	2	
Total	30	

(3) Teaching methods.

4.1. Lectures

4.2. Self learning (internet search for specific topics)

(4) Assessment methods.

- 5.1. Written exam for assessment of A1-9, B 1-4.
- 5.2. MCQ Exam for assessment of A1-9, B 1-4

Percentage of each assessment to the total mark.

Written exam. 80%= 40 degrees

MCQ exam: 20% = 10 degrees

References of the course.

- 6.1. Hand books. Department theoretical books
- 6.2. Text books:
- 1. Immunology: Janis Kuby- 2003.
- 2- Basic Clinical Immunology. Fudenburg, Stites, Caldwell, Weils-1997 **6.3**. **Journals**. Immunology
- (5) Facilities and resources mandatory for course completion.

Data show for power point presentations

Library

Computers

Course coordinator. Dr. Shireen Mazroa

Head of the department: Prof Dr. Salwa Gawish

Date: 1/5/2016