



COURSE SPECIFICATION

Immunology

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate MD degree of Internal Medicine
(2) Final award / degree	MD degree
(3) Department offering the programme:	Rheumatology and Immunology Unit Department
(4) Department responsible for teaching the course:	Rheumatology and Immunology Unit, Internal Medicine Department
(5) Part of the programme:	Second part
(6) Course title:	Immunology
(7) Course code:	MED 510RD
(8) Credit hours	2hours
(9) Total teaching hours:	30 lecture

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

- Give an in-depth medical and technical knowledge on immunology.
- Enable the candidates to apply principles of care of patients on immunology.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

A1	Discuss principles of Innate Immunity, Adaptive Immunity & Cytokines.
A2	Identify different types of Complement, B lymphocytes, T lymphocytes & Antigen presenting cells.
A3	Identify Antigens, Apoptosis, T cell receptors, & MHC complex.
A4	Discuss Immunosuppression & Immunopotiation.

B- Intellectual skills

B1	Assess problems and complications of Immunosuppression & Immunopotiation.
B2	interpret different blood tests in Innate Immunity, Adaptive Immunity.
B3	Differentiate between B lymphocytes, T lymphocytes.

(3) Course content:

Subjects	Lectures
Innate Immunity	3
Adaptive Immunity	3
Cytokines	3
Complement	3
B lymphocytes	2
T lymphocytes	2
Antigen presenting cells	2
Antigens	2
Apoptosis	2
T cell receptors TCR	2
MHC complex	2
Immunosuppression	2
Immunopotiation	2
Total teaching hours	30

(4) Teaching methods:

4.1: Lectures

4.2: Small group discussion with case study and problem solving

(5) Assessment methods:

5.1: Written exam (20 marks), MCQ (5marks).

5.2: Oral examination (25 marks).

5.3: **Total mark: 50**

(6) References of the course.

6.1: Immunology; Allergic Disorders, in: Merck Manual

(7) Facilities and resources mandatory for course completion.

Lecture halls and data show.

Course coordinator: Prof.Dr. Ehab Eltoraby

Head of the department: Prof.Dr. Salah El gamal