



## COURSE SPECIFICATION

### Faculty of Medicine- Mansoura University

#### (A) Administrative information

|   |  |
|---|--|
| (1) Programme offering the course.                                      | Clinical nephrology, dialysis and renal transplantation (MD)<br>NEPH 610 |
| (2) Department offering the programme.                                  | Internal medicine Department:<br>Nephrology unit                         |
| (3) Department responsible for teaching the course.                     | Internal medicine Department:<br>Nephrology unit                         |
| (4) Part of the programme.  | First part (Semester 1)  |
| (5) Date of approval by the Department's council                        | 5/11/2014  |
| (6) Date of last approval of programme specification by Faculty council | 9/8/2016   |
| (7) Course title.   | Scientific basis of clinical immunology (NEPH610CI)                      |
| (8) Course code.  | NEPH610  |
| (9) Total teaching hours.   | 15 (1 credit hour)   |

## **(B) Professional information**

### **(1) Course Aims:**

The broad aims of the course are as follows:

- Provide information about types of immune response and the basics autoimmunity and immunodeficiency disorders.
- Identification of basics of transplantation and rejection immunology .

### **(2) Intended Learning Outcomes (ILOs):**

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

#### **A- Knowledge and Understanding**

- A 1 Recall the basics of immune system
- A 2 Show sufficient knowledge of basics of immunology and its role in different renal diseases types and components of immune system(APCs, B&T cells, chemokines)
- A 3 Identify the principles of autoimmunity and immunodeficiency disorders
- A 4 Identify and recall principles of transplantation and rejection immunology

#### **B- Intellectual skills**

- B1 **Evaluate** strengths, deficiencies, and limits in one's knowledge and expertise and be able to be updated and face challenges.
- B 2 solve professional problems according to available data and set learning and improvement goals.

#### **C- Professional/practical skills**

D- Communication & Transferable skills

**(3) Course content: Compulsory**

Lectures: 1 hour/week(15 weeks)

| Course title   | Code      | Lectures Hours/ week | Seminars Hours/ week | Total | Total Teaching Hours | Credit Hours |
|--|-----------|----------------------|----------------------|-------|----------------------|--------------|
| <b>Scientific basis of clinical immunology:</b><br>An introduction: the immune system<br>Innate immune responses<br>Antigen presenting cells<br>Soluble mediators of immunity: antibodies<br>Soluble mediators of immunity: complement<br>Soluble mediators of immunity: cytokines<br>T -lymphocytes<br>B-lymphocytes<br>Autoimmunity<br>Immunodeficiency disorders<br>Tissue typing<br>Cross matching<br>Anti-HLA and non-HLA antibodies<br>Immunology of rejection | NEPH610CI | 1                    | 0                    | 1     | 15                   | 1            |

**(4) Teaching methods:**

- 4.1.lectures with power point presentations and discussions
- 4.2. Seminars
- 4.3. Problem solving case scenarios

**(5) Assessment methods:**

- 5.1.written exam
- 5.2. online MCQ exam(20% of written exam degrees)

| Course                                  | Assessment               | Marks |
|---|--------------------------|-------|
| Scientific basis of clinical immunology | Written exam (1.5 hours) | 40    |
|   | MCQ                      | 10    |

**Assessment schedule:**

First part examination, 6 months from admission to the program:

Assessment 1: Written exam

Assessment 2: Online MCQ exam

Other assessment without marks: logbook

**(6) References of the course:**

Textbooks

- Lupus nephritis: Frontiers and challenges
- Comprehensive clinical nephrology textbook
- Textbook of Basic and Clinical Immunology by Sudha Gangal (Author), Shubhangi Sontakke (Author)

Periodicals

- Journal of clinical immunology
- Journal of clinical immunology and immune-pathology research

**(7) Facilities and resources mandatory for course completion:**

Lecture halls

Intranet with a vast learning material

Program specification and handbooks

Candidates logbook

A very rich library and computer laboratories

**Course coordinator:**

Prof. Mohammed Sobh (General supervisor)

Prof. Hussein Sheashaa (Academic guide)

**Head of the department:**

Prof. Salah El Gamal

**Date: 5/11/2014**