



## COURSE SPECIFICATION

### Faculty of Medicine– Mansoura University

#### (A) Administrative information

(1) Programme offering the course.	Clinical nephrology, dialysis and renal transplantation (MD) NEPH 610
(2) Department offering the programme.	Internal medicine Department: Nephrology unit
(3) Department responsible for teaching the course.	Internal medicine Department: 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><u>Scientific basis of clinical immunology:</u></b> An introduction: the immune system Innate immune responses Antigen presenting cells Soluble mediators of immunity: antibodies Soluble mediators of immunity: complement Soluble mediators of immunity: cytokines T -lymphocytes B-lymphocytes Autoimmunity Immunodeficiency disorders Tissue typing Cross matching Anti-HLA and non-HLA antibodies Immunology of rejection	<b>NEPH610CI</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>15</b>	<b>1</b>

### (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