



## COURSE SPECIFICATION

### (Elective course: Immunologic basis of diseases)

Faculty of Medicine– Mansoura University

#### (A) Administrative information

(1) Programme offering the course:	Postgraduate Master degree of Pathology
(2) Department offering the programme:	Pathology department
(3) Department responsible for teaching the course:	Pathology department
(4) Part of the programme:	First part
(5) Date of approval by the Department's council	26/7/2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Elective course
(8) Course code:	PATH 505 ID
(9) Total hours:	2 credit hours lectures 1 credit practical
(10) Total teaching hours:	30 hours (lectures) 30 hours (practical)

## **(B): Professional informations**

### **Course Aims**

- 1- To provide detailed informations about components of immune system and type of immune response
- 2-To help identification of hypersensitivity reactions as pathogenic mechanisms underlying different disease processes
- 3-To clarify principles of autoimmunity and its relation to diseases
- 4-To build basic knowledge about transplant rejection
- 5- To support identification of immunologic deficiency syndromes

### **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**

- A1: List the limbs of innate and adaptive immunity
- A2: Recognize the Cells and tissues of immune system
- A3: Recognize Cytokine properties and functions
- A4: Describe -Structure ,function and disease association of histocompatibility molecules
- A5: Discuss Types and mechanisms of hypersensitivity reactions
- A6: Describe Immunologic tolerance, Mechanisms of autoimmunity and Immunologic deficiency syndromes
- A7: Discuss Basics of transplant rejection

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

- B1: Integration of pathogenesis to morphology in immunologic diseases
- B2: Detecting the basis of different diseases based on immunologic mechanisms

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

- C1: Interpretation of microscopic data in different immunologic diseases

C2: Approaching the diagnosis of immunologic diseases

C3: construct pathology report

#### D- Communication & Transferable skills

D1: Present adequately themselves by improving descriptive capabilities and communication skills and respond positively to feedback.

D2: Respect ethical relationship with staff and ethics in research.

D3: Present attitudes that will maximize their educational experiences via continuous search in data base and life long learning.

D4: Work in inter-professional teams to enhance patient safety and improve patient care quality.

#### Course content

Content	Lectures
1-Concepts of innate and adaptive immunity 2-Cells and tissues of immune system 3-Cytokines properties and functions	6
4-Structure ,function and disease association of histocompatibility molecules 5- Types and mechanisms of hypersensitivity reactions	8
6-Immunologic tolerance 7-Mechanisms of autoimmunity	8
8-Immunologic deficiency syndromes(primary and secondary) 9-Basics of transplant rejection	8

### Practical skills (30 teaching hours-1 credit hour)

Content	Lectures
Interpretation of microscopic data in different immunologic diseases	15
Approaching the diagnosis of immunologic diseases	10
construct pathology report	5
<b>TOTAL</b>	<b>30</b>

### Teaching methods:

- 4.1: Lectures & Seminars
- 4.2: Conferences
- 4.3: Training on examination of pathologic slides
- 4.4: Essay preparation & discussion.
- 4.5: Teaching of the students on pathology lab. In Mansoura university medical centers.

### Assessment Schedule.

- Written exam: 8 4marks
- MCQ: 12 marks
- OSPE exam: 20 marks
- Structured Oral exam: 20 marks

### Other assessment without marks:

- 1-Attendance Criteria: Minimum acceptance attendance in each course is 75%
- 2- Log book should be fulfilled and signed by Head of the department

### References of the course:

- 6.1: Hand books: Course notes: Book authorized by department
- 6.2: Text books: Rubbin's text book of pathology & Ackerman's surgical pathology

### 6.3. Websites:

- <http://www.pathmax.com>
- United States and Canadian Academy of Pathology (USCAP): <http://www.uscap.org/>
- The Royal Collage of pathologists: <http://www.rcpath.org/>

### Facilities and resources mandatory for course completion.

- ☐ Lecture halls and data show
- ☐ Pathology labs. in various Mansoura university medical centers
- ☐ Pathology Archives of slides and tissue for problematic cases
- ☐ Extensive library and other learning resources
- ☐ Computer laboratories with a wide range of software
- ☐ Internet with a wide range of learning support material

Course coordinator: **Dr. Reham Nagib**

Head of the department: **Prof. Dr. Khaled Zalata**