# COURSE SPECIFICATION

## Faculty of Medicine– Mansoura University

## (A) Administrative information

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|---|---|
| (1) Programme offering the course: | Postgraduate **MD** Programme of Neurology |
| (2) Department offering the programme: | Neurology department |
| (3) Department responsible for teaching the course: | Neurology department |
| (4) Part of the programme: | Second part |
| (5) Date of approval by the Department`s council | **27/4/2016** |
| (6) Date of last approval of programme specification by Faculty council | **9/8/2016** |
| (7) Course title: | Advances in neuroimmunology |
| (8) Course code: | NRL 612 ANI |
| (9) Total credit hours: | 1 |
| (10) Teaching hours | 15 hours |

## (B) Professional information

### (1) Course Aims:

The broad aims of the course are as follows:

1- Provide the candidate with the ability to understand interactions between the immune and the nervous systems with more understanding of the physiological disease processes.

**2-** Provide the candidate with the ability to understand interaction between the immune and nervous systems at molecular, cellular and systems levels.

**3-** Educate the candidate how to be competent in applying the principles, methodology and various tools of scientific research in neurology.

4- Teach the candidate how to make continuous self-development and how to transfer knowledge and skills to others.

5- Integrity, honesty and respecting medical ethics.

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

### A- Knowledge and Understanding

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

**A1** Recognize the basis of cellular and molecular immubnology.

**A2** Recognize the major components of myelin in the mammalian central and peripheral nervous systems

**A3** Identify Inflammatory demyelinating diseases of the central nervous system.

**A4** Describe different autoimmune diseases of the peripheral nervous system.

### B- Intellectual skills:

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

**B1** Analyze efficiently and construct the mechanisms of neuroimmunology of many neurological diseases.

**B2** Interpret accurately the results of commonly used immunological tests and the advanced diagnostic procedures as well as obscure findings to solve clinical problems.

**B3** Demonstrate the talent for differential diagnosis from non neurologic mimickers

**B4** Achieve information technology to optimize education of students, patients, families.

## Course content:

| Subjects | Lectures | Clinical | Laboratory/ Practical | Total Teaching Hours |
|---|---|---|---|---|
| The basics of cellular and molecular immunology | 3 | | | 3 |
| Major components of myelin in the mammalian central and peripheral nervous systems | 3 | | | 3 |
| Inflammatory demyelination in the central nervous system | 3 | | | 3 |
| Autoimmune diseases of the peripheral nervous system and the muscle | 3 | | | 3 |
| Disorders of the central and peripheral nervous systems related to known or assumed system-immune abnormalities | 3 | | | 3 |
| **Total Teaching Hours** | 15 | | | |

## (4) Teaching methods:

4.1: Lectures & Seminars, power point aided.

4.2: Conferences

4.3: Interactive bedside teaching with clinical case presentations of difficult and interesting cases and group discussion.

4.4: Training on examination of neurologic patients in grand rounds

4.5: Training in neurophysiology Unit

4.6: Attendance of department activities (Thesis Discussion, invasive procedures with senior staffs, outpatient clinic, workshops and training courses…)

4.7: problem solving case scenario (Commentary)

## 5) Assessment method:

Final written exam after 6 semesters from admission to MD degree with total of 25 marks

MCq continuous assessment at the end of each semester

## 6)Assessment marks

Written exam: 20 Marks

MCQ: 5 MArks

## Other assessment without marks:

**1-** Presentation and open discussion seminars.

**2-** Presentation and open discussion of MD thesis

**3-** Log book for assessment of the attendance and activities throughout the course (Minimum acceptance attendance is 75 %), it should be fulfilled and signed by Head of the department.

## (6) References of the course:

### 6.1: Hand books: Book authorized by department of Neurology.

### 6.2: Text books:

- Immunoneurology (Michel Chofflon (Editor), Lawrence Steinman (Editor)), 2012
- Clinical Neuroimmunology (Jack Antel (Editor), Gary Birnbaum (Editor), Hans-Peter Hartung (Editor), Angela Vincent (Editor)) ,2005.
- Neuroimmunology in Clinical Practice (Bernadette Kalman (Editor), Thomas H. Brannagan (Editor)), 2007.
- Neuroimmunology Research Perpectives (Lilian M. Johansson (Editor)), 2006

### 6.3: Journals:

http://www.jni-journal.com/

http://www.journals.elsevier.com/journal-of-neuroimmunology/

http://www.neuroimmunology.jp/eng/journal/index.html

### 6.4: Websites:

http://www.isniweb.org/

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

Candidates and their learning are supported in a number of ways:

- □ Candidates logbook
- □ Programme Specification and Handbooks
- □ Lecture hall, 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. Ahmed Hamdy

Head of the department: Prof. Dr. Ahmed Gamal Azab.

Date: