COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Postgraduate **Msc** Programme of Neurology
(2) Department offering the programme:	**Neurology department–Psychiatric department**
(3) Department responsible for teaching the course:	Neurology department
(4) Part of the programme:	2nd part
(5) Date of approval by the Department`s council	**17-5-2016**
(6) Date of last approval of programme specification by Faculty council	**8-9-2016**
(7) Course title:	Basics of Clinical Neurophysiology
(8) Course code:	NPSYC 512 CNP
(9) Total credit hours:	1
(10) Teaching hours	15 hours lectures

(B) Professional information

(1) Course Aims:

The broad aims of the course are as follows:

1- Provide the candidate with knowledge about the principles of Clinical neurophysiology measures like electroencephalogram (EEG), Electromyography (EMG), Nerve Conduction velocity (NCV) and Evoked potentials.

2- Teach the candidate how to explore in detail the physical principles of different clinical neurophysiology measures.

3- Educate the candidate how to integrate the pattern of different clinical neurophysiology measures and the clinical data in order to reach proper diagnosis

(2) Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding

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

A1- Discuss the methods for application of the different clinical neurophysiology measures.

A2- Discuss the pattern of different waves and artifacts.

A3- Define the background activity, focal and paroxysmal epileptiform discharges in EEG.

A4- Recognize the value of EEG in the management of different neurological disorders.

A5- Recognize the different methods of evoked potentials and their normal and abnormal data.

B- Intellectual skills:

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

B1- Differentiate the normal waves, artifacts, epileptiform discharge, and sleep pattern in EEG.

B2- Write the clinical neurophysiology measures report efficiently.

B3- Identify the need of each of the different types of EEG according to the clinical data of each patient.

(3) Course content:

Subjects	Lectures	Clinical	Laboratory/ Practical	Total Teaching Hours
Electroencephalography (EEG)	3			3
Electromyography (EMG)	2			2
Nerve Conduction Velocity (NCV)	2			2
Visual Evoked potentials (VEPs)	2			2
Brainstem Auditory Evoked potentials (BAEPs)	2			2
Somatosensory Evoked Potentials (SSEPs)	2			2
Motor Evoked Potentials (MEPs)	2			2
Total Teaching Hours	15 hours			

(4) Teaching methods:

4.1. Lectures.

4.2. Practical training in Neuroelectrophysiology room under supervision from neurology staff members.

(5) Assessment methods:

Assessment method	Marks
Oral exam	50
MCQ	10

Written exam	40

Assessment schedule:

Final exam after 30 months from admission to Msc degree or 36 months from the date of receipt of the work for residents with total of 100 marks

Other assessment without marks:

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 physiology.

6.2: Text books:

Neurology in clinical practice, Textbook of clinical neurology,

Atlas of EEG Patterns, Stern JM and Engel J.

6.3: Journals:

Clinical Neurophysiology

Journal of Clinical Neurophysiology

Nature Reviews Neuroscience

6.4: Websites:

http://emedicine.medscape.com/

http://neuromuscular.wustl.edu/

http://www.neuroland.com/

http://www.neurophys.com/

(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: / / 2016