



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(B) Administrative information

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| (11) Programme offering the course: | MSC of Neurology & psychological medicine |
| (12) Department offering the programme: | Psychiatry – Neurology |
| (13) Department responsible for teaching the course: | physiology department |
| (14) Part of the programme: | First part |
| (15) Date of approval by the Department's council | 21-9-2014 |
| (16) Date of last approval of programme specification by Faculty council | |
| (17) Course title: | physiology |
| (18) Course code: | NPSYC 503 |
| (19) Credit hours | 1/2 hour |
| (20) Total teaching hours: | 7 & half hours lectures |

Professional information

Course Aims:

The broad aims of the course are as follows: (either to be written in items or as a paragraph)



1-To ensure that graduates are able to have sufficient knowledge about normal psychological functions in human beings.

2- The graduates will possess sound clinical judgment, requisite skills and a high order of knowledge about the diagnoses, treatment and prevention of all psychiatric disorders based on physiological background .

3- Graduates must have a keen awareness of their own strengths and limitations, and recognize the necessity for continuing their own professional development.

(1)Intended Learning Outcomes (ILOs) of physiology:

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 Recognize the definition, importance and normal mechanisms of Hemostasis and Fibrin-lytic system

A2 Understand the role of Synapses in the CNS and the neurotransmitters, Recognize Sensory receptors and neural coding of sensory information

A3 Recognize Types of Somatic sensations and their pathways: (pain and pain-control system, tactile, proprioceptive, and thermal).

A4 Discuss Motor functions of spinal cord ,The descending motor pathways, Upper & lower motor neuron lesions and lesions of the spinal cord.

A5 Explain the physiological functions of The basal ganglia,The cerebellum, The hypothalamus and the limbic system



A6 Recognize Functional areas of the cerebral cortex of language. Role of the cerebral cortex in learning, memory and Sleep in addition to Neurophysiological basis of language

A7 Explain mechanisms Neuromuscular transmission and mechanisms of skeletal muscle contraction.

B- Intellectual skills

B1 Interpret the most important physiological basis of normal psychological functions and their role in human life.

B2 Analyze data, investigations to reach the diagnosis of disorders of psychological functions considering physiological background .

B3 Formulation of the case of the patient in concern to his psychological functions and put appropriate management plans.

D- Communication & Transferable skills

D1 Communicate effectively with people, families and the public as appropriate across a broad range of socioeconomic and cultural backgrounds.

D2 Communicate effectively as a member of a team.

D3 Develop a non judgmental attitude towards mental patients with proper understanding of the sources and causes of stigma towards such patients

Course content

Physiology

| Subjects: | Lectures |
|--|------------|
| Hemostasis and Fibrin-lytic system | 1/2 |
| Synapses in the CNS and the neurotran | 1 |



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|--|----------|
| Sensory receptors and neural coding of sensory information | 1 |
| Somatic sensations and their pathways: (pain and pain control system, tactile, proprioceptive, and thermal). | 1 |
| The basal ganglia, The cerebellum, The hypothalamus and the limbic system | 1 |
| Motor functions of spinal cord ,The descending motor pathways, Upper & lower motor neuron lesions and lesions of the spinal cord. | 1 |
| Functional areas of the cerebral cortex of language. Role of the cerebral cortex in learning, memory and Sleep in addition to | 1 |
| Neurophysiological basis of language | |
| Neuromuscular transmission and mechanisms of skeletal muscle contraction. | 1 |



(4) Teaching methods (physiology):

- 4.1 :Lectures.....
- 4.2: Seminars
- 4.3: Journal clubs & workshops.
- 4.4: clinical rounds for discussion of clinical cases.

(4) Assessment methods:

Assessment schedule: Final Exam total: 150

Percentage of each Assessment to the total mark:

Written exam: ...72... ..marks,

OSCE Clinical exam marks

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Structured Oral exam:..... 60...marks

MCQ:..... 18 marks

Other types of assessment:..... %:.....

Other assessment without marks: No

(4) References of the course:

6.1: Hand books: Lecture notes in physiology

6.2: Text books:.

Facilities and resources mandatory for course completion:

- i. Lecture hall and data show
- ii. Clinical round halls



library is located on the 4th floor of the Faculty of Medicine,
Mansoura University.

iv. International databases are available through the website of
the university

Course coordinator: Youmna Sabri

Head of the department: prof. Wafaa Al-Bahei

Date:

iii. The