



COURSE SPECIFICATION

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	Post graduate M D Neurosurgery
(2) Department offering the programme:	Neurosurgery
(3) Department responsible for teaching the course:	Neurosurgery Human Pathology
(4) Part of the programme:	First part
(5) Date of approval by the Department's council	4-5-2016
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Neuropathology
(8) Course code:	NSUR605 NSUR632 PA
(9) Total teaching hours:	30
(10) Credit hours:	2 hours

(B) Professional information

(1) Course Aims:

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

- 1- Provide the candidate with the pathologic changes concomitant to various neurosurgical problems.
- 2- Prepare the candidate to understand the aetiology and pathophysiologic mechanisms underlying the development of these changes.
- 3- Prepare the candidate to interpret the gross and microscopic picture of these changes.
- 4- Prepare the candidate to know the possible sequelae and prognosis of these diseases.

(2) 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

- A 1- Identify pathological changes that accompany infections of the brain and spine.
- A 2- Identify pathological changes that accompany CNS, skull, spine and peripheral nerve tumors.
- A 3- Review the molecular biology of brain tumors.
- A 4- Recognize pathological changes that accompany head and spinal trauma.
- A 5- Review the CNS and/or spinal changes that accompany degenerative, developmental, cerebrovascular and hereditary anomalies.

2- Intellectual activities (I)

The Postgraduate degree provides opportunities for candidates to achieve and demonstrate the following intellectual qualities:

B- Intellectual skills

- B 1 Estimate the etiology and pathophysiologic mechanisms underlying the development of neurosurgical diseases.
- B 2 Integrate the pathological features of these diseases with their diagnosis and prognosis

(3) Course content.

الفصل الدراسي الأول

Neuropathology

محاضرة كل منها ساعتين لمدة فصل دراسي (١٥ أسبوع)

(Credit hours = 2)

Lecture topics:

- 1- Infections of the brain.
- 2- Infections of the spine.
- 3- Brain tumors in adults.
- 4- Pediatric brain tumors.
- 5- Skull base tumors.
- 6- Molecular biology and brain tumors.
- 7- Skull and spine tumors.
- 8- Spinal cord tumors.
- 9- Peripheral nerve tumors.
- 10- Head injuries.
- 11- Intervertebral disc and spinal injuries.
- 12- Cerebrovascular diseases.
- 13- Developmental anomalies.
- 14- Movement disorders.
- 15- Neurocutaneous syndromes.

(4) Teaching methods.

4. 1: Power point presentations.
4. 2: Microteaching and self learning.

4. 3: Video presentations.

(5) Assessment methods:

5.1: Written exam. for assessment of A1, A2, A3, A4, A5, B1, B2

5. 2: MCQ exam. for assessment of A1, A2, A3, A4, A5, B1, B2

Assessment schedule:

Assessment 1: Written and MCQ exams at the end of first semester

Written exam: 80 marks

MCQ exam. 20 marks

(6) References of the course:

6.1: Text books: Rosai and Ackerman's surgical pathology, Clinical neuropathology, Wilkin's neurosurgery and Youman's neurosurgery.

6.2: Journals: journal of neurosurgery, Neurosurgery and Journal of Neuropathology.

6.3: Websites: Websites: [www.neurosurgery on line .com](http://www.neurosurgeryonline.com)

(7) Facilities and resources mandatory for course completion.

- Lectures
- Library
- Internet
- Pathology museum

Course coordinator: PROF. DR. Nabil Mansour Ali
Prof. Dr. Mohamed Ali Kassem

Head of the department: PROF. DR. Nabil Mansour Ali

Date: 4-5-2016