



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
(4) Part of the programme:	Elective course
(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:	Innovative spinal surgery
(8) Course code:	NSUR 632 ISS
(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 innovative spinal approaches to tackle complex spinal lesions.

(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

A1- Identify the pathological features of spinal diseases.

A2- Recognize the recent advances in management of spinal problems either surgical or non surgical.

A3- Recognize the clinical presentation and diagnosis of complex spinal problems

A4- Discuss spinal stabilization

A5-Recognize cranio-spinal junction diseases

A6- explain indications and techniques of vertebral body augmentation

2- Intellectual activities (I)

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

B- Intellectual skills

B1- Predict different types of spinal fusion

B2-Assess spinal dynamic stabilization

B3-Assess minimally spinal approaches

(3) Course content.

المقررات الإختيارية

مقرر إختياري واحد يشمل ١٥ محاضرة كل منها ساعتين

Credit hours = 2

Innovative Spinal Surgery

Lectures:

- 1- Spinal arthroplasty.
- 2- Future direction of management of spinal cord injury.
- 3- Innovative approaches to spinal deformities.
- 4- Ossification of the posterior longitudinal ligament.
- 5- Posterior dynamic stabilization systems.
- 6- Interbody fusion techniques.
- 7- Management of fractures at the craniocervical junction.
- 8- Approaches to the cervicothoracic junction.
- 9- Surgery of sacral lesions.
- 10- Intradiscal electrothermy.
- 11- Spondylectomy for spinal tumors.
- 12- Thoracoscopic surgery of the dorsal spine.
- 13- Rheumatoid arthritis and ankylosing spondylitis.

(4) Teaching methods.

- 4.1: Power point presentation.
- 4.2: Microteaching and self learning.

- (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, B1, B2,B3,B4,B5

Assessment schedule.

Written exam. 32 marks

MCQ exam. 8 marks.

(6) **References of the course.**

6.1: Journals: Journal of Neurosurgery, Neurosurgery and Spine, recent advances in spinal diseases, surgical approaches for spinal diseases.

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

(7) **Facilities and resources mandatory for course completion.**

- Lectures
- Library
- Internet
- Journal Club

Course coordinator: PROF. DR. Nabil Mansour Ali

Prof., Dr. Mohamed Kassem

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

Date: 13-5-2013