COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Program offering the course:	**PhD**
(2) Department offering the program:	**Anatomy and Embryology**
(3) Department responsible for teaching the course:	**Anatomy and Embryology**
(4) Part of the program:	**Second part**
(5) Date of approval by the Department`s council	**18/5/2016**
(6) Date of last approval of program specification by Faculty council	**9-8-2016**
(7) Course title:	**Applied Anatomy of Neurology**
(8) Course code:	**ANA 601 AAN**
(9) Total teaching hours:	**10 (Theoretical)** **5 (practical)**

(B) Professional information

(1) Course Aim:

The main aims of this course are that the candidate develops him/her self academically and professionally by a**cquiring** detailed knowledge and required skills to be capable of anatomical teaching for postgraduate students in the field of neurology.

(2) Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding:

On successful completion of the course, the candidate should**:**

K 1 Recognize the embryological bases related to neural maldevelopment

K 2 Discuss the anatomy of skull and vertebral column.

K 3 Describe the anatomy of cranial nerves, nerve plexuses and peripheral nerves.

K 4 Recognize the tractology of the spinal cord in depth.

K 5 Identify the anatomical aspects related to neurosurgical disorders.

K 6 State the detailed anatomy of the ventricular system and brain coverings

K 7 Recognize the detailed anatomy of cerebrum, cerebellum and brain stem.

K 8 List the clinical aspects based on anatomical and embryological knowledge related to these specific parts of the body.

B- Intellectual skills:

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

I 1 Correlate the clinical aspects of the selected region with anatomical knowledge

I 2 Integrate the anatomical facts of these regions with neurological clinical problems.

C- Practical skills:

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

P 1 Assemble the different internal structures in cadavers during teaching.

P 2 Dissect professionally selected regions of the human body.

P 3 Plan for developing his/her performance in anatomical teaching.

D- Communication & Transferable skills:

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

T 1 **Communicate** efficiently to improve teaching and research skills.

T 2 **Be prepared** for lifelong learning through self and continuous learning and setup self needs for learning.

T 3 Efficiently **manage time** and manipulate information and by all means.

T 4 **Work efficiently** within a team and be prepared to be a team leader.

T 5 **Setup** rules and parameters for self evaluation and evaluating others performance

(3) Course content:

Subjects	Lectures	Laboratory
1. Embryology related to neural maldevelopment	5	-
2. Skull, orbit	5	20
3. Spine, joints of vertebral column, sacrum	5	10
4. Peripheral nerves, plexuses, sympathetic chain	5	10
5. Cranial nerves	5	10
6. Cerebrum	5	20
7. Cerebellum	5	10
8. Blood supply of brain and spinal cord	5	10
9. Arachnoid cysterns	5	-
10. Dura	5	10
11. Ventricular system	5	10
12. Brain stem	5	20
13.Tractology of the spinal cord	5	10
14.Cut sectional anatomy of brain and spinal cord	5	10
15. Applied anatomy	5	-
Total	75	150

(4) Teaching methods:

4.1: Lectures
4.2: Practical sessions
4.3: Group discussion
4.4: Presentation by students

(5) Assessment methods: Final exam

5.1: **Written exam: 100 marks** for assessment of K1-8, I1,2
5.2: **Practical exam: 50 marks** for assessment of P1-3
5.2: **Oral Exam: 50 marks** for assessment of K1-8, I1,2, T1-5

Assessment schedule:

Final Exam (200 marks): at the end of the course

Percentage of each assessment to the total mark:

Written exam: 100 marks (50%): essay 80 marks (80%), MCQ 20marks (20%)
Practical exam: 50 marks (25%)
Oral exam: 50 marks (25%)

(6) References of the course:

6.1: **Hand books:** Department Book
6.2: **Text books:**

Grey's Anatomy.
Karpenter Neuroanatomy.
Cunningham Practical of Anatomy
Langman's Medical Embryology.
Keith L. Moore Embryology.
Netter's Atlas.
Snell's Neuroanatomy.
Neuroscience

6.1: Websites:

http://anatomy.med.umich.edu/courseinfo/mich_quiz_index.html

http://freevideolectures.com/

http://www.med.umich.edu/lrc/coursepages/M1/anatomy/html/

(7) Facilities and resources mandatory for course completion:

- Lecture room
- Anatomy dissection lab, cadavers, plastinated specimens and models
- Computers, data show projector and internet connection

Course coordinator: **Prof. Adel Bondok**

Head of the department: Prof. Adel El Hawary

Date: 18/5/2016