COURSE SPECIFICATION

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Program offering the course	**M.Sc.**
(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	**Human Anatomy and Embryology**
(8) Course code	**ANA 501**
(9) Credit hours	**10 (lectures)** **5 (practical)**

(B) Professional information:

(1) Course Aims:

The main aims of this coarse are to prepare the candidate to

a. Acquire detailed insights into the human anatomy and embryology and related fields of medicine, and to be aware of the recent visions in anatomical sciences.
b. Work properly and develop skills as an anatomist and researcher to peruse a successful career in the university.

(2) Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding:

By the end of the course the candidates should be able to:

K 1 Describe the early embryological stages of the human body.

K 2 Recognize the development of body systems and body cavities and their various congenital anomalies.

K 3 Discuss the causes of maldevelopment.

K 4 Define the clinical correlations and explanations based on anatomical and embryological bases.

K 5 Identify the surface landmarks of different structures of the body.

K 6 Describe the relations between the different structures (arteries, veins, nerves and viscera).

K 7 Discuss of the different neuroanatomical syndromes.

K 8 Recognize the distribution of nerves and blood vessels and effect of different nerve lesions.

K 9 Demonestrate the muscle groups, features of different bones and the structure and movements of the different joints

K 10 Recognize the anatomy of different regions of the body.

B- Intellectual skills:

By the end of the course the candidates should achieve and demonstrate the following intellectual qualities:

I 1 Integrate anatomical facts with embryological origin.

I 2 Correlate his/her knowledge in embryology with the clinical findings based on maldevelopment.

I 3 Evaluate risk factors that can cause congenital malformations.

I 4 Integrate the anatomical facts with clinical problems.

I 5 Correlate the clinical aspects of the selected region based on anatomical and embryological knowledge

I 6 Correlate the anatomical knowledge with clinical signs seen in cases of nerve injuries and CNS lesions**.**

I 7 Integrate his/her knowledge of neuroanatomy with those of neurophysiology and neurohistology

C- Practical skills:

By the end of the course the candidates should demonstrate the following practical skills:

P 1 Dissect professionally selected regions of the human body.

P 2 Assemble the different internal structures in cadavers during teaching.

P 3 Plan for developing his performance in anatomical teaching.

D- Communication & Transferable skills:

By the end of the course the candidates should be able to:

T 1 Communicate efficiently to improve his/her performance in teaching and research.

T 2 Support the learning of others when involved in a team work.

T 3 Demonstrate self-awareness and motivation and ability to identify his own needs .

T 4 Be prepared for self-lifelong learning.

T 5 Manage time and process information effectively.

(3) Course content:

Subjects	Lectures teaching hours	Laboratory teaching hours
1. Special embryology	30	-
2. Osteology	10	10
3. Abdomen	20	20
4. Pelvis	10	10
5. Upper limb	10	20
6. Lower limb	10	20
7. Thorax	10	10
8. Head and neck	20	30
9. Neuroanatomy	30	30
Total	150	150

(4) Teaching methods:

4.1: Lectures

4.2: Practical sessions

4.3: Group discussion

4.4: Presentation by students

(5) Assessment methods:

5.1: **Written exam (one paper, 3 hours)** for assessment of K1-10, I1-7

5.2: **Oral Exam** for assessment of K1-10, I1-9, T1-5.

5.3: **Practical exam for** assessment of **P1-3.**

Assessment schedule:

Final Exam (400 marks): at the end of the course

Percentage of each Assessment to the total mark:

Written exam: 200 marks (50%) Essay: 160 marks, MCQ: 40 marks

Oral exam: 100 marks (25%)

Practical exam: 100 marks (25%)

(6) References of the course:

6.1: **Hand books:** Department Book

6.2: **Text books:**

Langman's Embryology.

Keith L. Moore Embryology.

Student's Grants Atlas.

Netter's Atlas.

Snell's Atlas.

Grey's Anatomy.

6.3: **Websites:**

http://www.indiana.edu/~anat550/

http://www.embryology.ch/indexen.html

6.4: Journals:

- **Advances in Anatomy Embryology and Cell Biology**

http://www.springer.com/west/home/life+sci?SGWID=4-10027-69-173622675-0

- Development

http://dev.biologists.org/

(7) Facilities and resources mandatory for course completion:

- Lecture room
- Computers, data show projector and internet connection

Course coordinator: Prof. Adel Al-Hawary

Head of the department: Prof. Adel Al-Hawary

Date: **18/5/2016**