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) Departments responsible for teaching the course:	**Department of Anatomy and Embryology**
(4) Part of the program:	**First part**
(5) Date of approval by the Department`s council	**18/5/2016**
(6) Date of last approval of programme specification by Faculty council	**9-8-2016**
(7) Course title:	**Radiological Anatomy**
(8) Course code:	**ANA 601 RA** **ANA 629**
(9) Credit hours:	**1 (Theoretical)**

(B) Professional information

(1) Course Aims:

The main aims of this coarse are to understand the basics of the radiology and the use of its various tools and to recognize the anatomical events in radiological films.
This includes imaging of different parts of the body using CT and MRI techniques

(2) Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding:

K 1 **Recognize** the basic knowledge of the radiological sciences

K 2 **Identify** the clinical application of various radiological tools in the related fields medicine.

K 3 Define the anatomical structures of the different regions in radiological films.

K 4 Identify anatomical variations in radiological films.

K5 Recognize ethics in the life sciences and the integrity and misconduct in life scienc research, including issues of data collection, publication, authorship and peer review

B- Intellectual skills:

I 1 **Analyze** and **integrate** radiological anatomy with other medical fields.

I 2 **Integrate** basic knowledge in anatomy and radiology to solve medical problems.

I 3 **Evaluate** risk factors in practicing radiology such as exposure to radiation.

(3) Course contents:

Subjects	Lectures
1. Basics of CT and MRI techniques	2
2. Normal CT and MRI of the brain and head	2
3. Normal CT and MRI of the upper and lower limbs	2
4. Normal CT and MRI of the thorax and abdomen	2
5. Normal CT and MRI of the spine	2
6. Normal CT and MRI of the chest	2
7. Normal CT and MRI of the abdomen and pelvis	2
8. ETHICS	1
Total	15

(4) Teaching methods:

4.1: Lectures

4.2: Group discussion

4.3: Presentation by students

(5) Assessment methods:

- **Assessment methods: Written exam** (one paper, 3 hours) for assessment of all ILOs.
- **Assessment schedule: Final Exam (100 marks): at the end of the course**
- **Percentage of Assessment to the total mark: Written exam: 100 marks (100% of the degree). Essay: 80 marks (80%), MCQ: 20 marks (20%).**

(6) References of the course:

6.1: Text books::

- **Basics of Radiology.** David Sutton.

- **Applied Radiological Anatomy** by Paul Butler et al
- **Practical Radiological Anatomy by Sarah McWilliams**

6.2: Websites:

- https://www.imaios.com/en/e-Anatomy
- http://www.med.wayne.edu/diagRadiology/Anatomy_Modules/Page1.html
- https://www.dartmouth.edu/~humananatomy/part_1/chapter_5.html
- https://sectional-anatomy.org/

6. 3: Journals:

- Surgical and Radiologic Anatomy
  http://www.springer.com/medicine/radiology/journal/276
- American *Journal* of Roentgenology
  http://www.ajronline.org/doi/full/10.2214/ajr.175.1.1750016
- Applied Radiology Online
  http://appliedradiology.com/journal

(7) Facilities and resources mandatory for course completion:

- Lecture room

- Computers, data show, projectors and internet connection

Course coordinator: Prof. Adel El-Hawary

Head of the department: **Prof.** Adel El-Hawary

Date: 18/5/2016