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 Orthopedics**
(8) Course code:	**ANA 601 AAOR**
(9) Total teaching hours:	**10 (Theoretical)** **5 (practical)**

(B) Professional information

(1) Course Aim:

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

(2) Intended Learning Outcomes (ILOs):

A- Knowledge and Understanding:

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

K 1 Recognize the development of the limbs.

K 2 Describe the anatomy of joints of upper and lower limbs.

K 3 Recognize the anatomy, distribution and lesion of nerves of upper and lower limbs.

K 4 Recognize the detailed anatomy of blood vessels and lymphatics of upper and lower limbs.

K 5 Record 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 Integrate the anatomical facts and embryological basis with orthopaedic 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 **Manage the time** efficiently and process information 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. Development of the limbs	10	-
2. Shoulder joint	4	10
3. Elbow joint	6	10
4. Wrist joint	4	10
5. Joints of the hand	6	10
6. Muscles of the upper limb	10	10
7. Brachial plexus, nerves of the upper limb	10	10
8. Nerve injury of upper limb	10	-
9. Blood vessels of the upper limb	10	10
10. Hand	10	10
11. Hip joint	4	10
12. Knee joint	6	10
13. Ankle joint	4	10
14. Joints of the foot	6	-
15. Muscles of the lower limb	10	10

16. Nerves of the lower limb	10	10
17. Blood vessels of the lower limb	10	10
18. foot	10	10
19.Nerve injury of the lower limb	4	-
20. Applied anatomy	6	-
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: Final exam

5.1: **Written exam: 100 marks** for assessment of K1-5; I1

5.2: **Practical exam: 50 marks** for assessment of P1-3

5.2: **Oral Exam: 50 marks** for assessment of all K1-5; I1, 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 20 marks(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.

Last's Anatomy.

Cunningham Practical of Anatomy
Langman's Medical Embryology.
Keith L. Moore Embryology .
Student's Grants Atlas.
Netter's Atlas.
Snell's Atlas.

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. Omar Gabr**
Head of the department: Prof. Adel El Hawary
Date: 18/5/2016