



COURSE SPECIFICATION

Physiology

Orthopediac and traumatology master degree –First part Faculty of Medicine– Mansoura University

(A) Administrative information

44.77		
(1) Programme offering the course.	Orthopediac and traumatology	
	master degree	
(2) Department offering the programme.	Orthopediac department	
(3) Department responsible for teaching the	Physiology	
course:	3 * * * &	
(4) Part of the programme:	First part	
(5) Date of approval by the Department's	11.5.2016	
council		
(6) Date of last approval of programme	9/8/2016	
specification by Faculty council	, ,	
(7) Course title.	Physiology	
(8) Course code:	Osur503	
(9) Total teaching hours.	7.5 hrs	
(b) roun buching nours:	1.5 III's	

(B) Professional information

(1) Course Aims.

The broad aim of the course is to provide basic knowledge and understanding the physiology of muscloskletel system and background of orthopaedic disorders.

(2) Intended Learning Outcomes (ILOs):

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

A- Knowledge and Understanding

- A1. Describe Physiological function of skeletal muscle.
- A 2. Discuss Excitation of skeletal muscle:
 - a. Neuro-muscular junction.
 - b. Muscle action potential.
- A 3. Identify Hemostasis and blood cougulation:
 - c. Mechanisms of blood hemostasis and blood coagulation.
 - d. Excessive bleeding conditions.
 - e. Anticoagulats for clinical use.
 - f. Blood coagulation tests.
- A 4. Describe Motor functions of the spinal cord and cord reflexes.
- A 5. Discuss Orthopaedic endocrinlogy (growth, thyroid and adeno-cortical homones).
- A 6. Identify regulation, mechanism of action and physiologic effects of hormones and hormonal control of growth.
- A7. Identify the regulatory mechanisms of body fluid, body temperature and metabolism.

B- Intellectual skills

B1. Integrate the basic science knowledge into clinical practice to explain the various orthopedic disorders.

(3) Course content:

Subjects	Lectures	Total Teaching Hours
Homeostasis (in short)	1	1
Contraction of skeletal muscle.	1	1
2. Excitation of skeletal muscle.	1	1
3. Immunity (innative and acquired immunity).	1	1
4. Hemostasis and blood cougulation	1	1
5. Motor functions of the spinal cord and cord reflexes.	1	1
6. Orthopaedic endocrinlogy (growth, thyroid and adeno-cortical homones).7. Parathyroid harmone, calcitonin, calcium and phosphate metabolism and vit D.	1	1.5

(4) Teaching methods.

Lectures

(5) assessment methods.

: 5.1: Written Exam to assess knowledge and intellectual skills.

5.2: Oral Exam to assess knowledge

5.3: MCQ exam: to assess knowledge and intellectual skills.

Assessment schedule:

Assessment 1. Written Exams Short essay after 6 months from the date of registration to the degree

Assessment2: Oral Exams after 6 months from the date of registration to the degree

Assessment 3: MCQ continuous assessment exam at the end of the semester

Percentage of each Assessment to the total mark:

Written exam: 60 %

Oral exam: 40 %

Assessment 3: MCQ 20% of the written exam

Written	MCQ	Oral	Total
48	12	40	100

Other assessment without marks:

Assessment of attendance & absenteeism throughout the course

Research assignment to assess general transferable skills, intellectual skills

- (6) References of the course.
 - 6.1. Hand books. Book notes of Physiology department.
 - 6.2. Text books. Ganong Text book of physiology.

- (5) Facilities and resources mandatory for course completion.
- Lecture hall and data show

Course coordinator: **Dr.Khalid Nour**

Head of the department.

Prof dr. Hani Elmowafi

Date: