



**Course Specification**  
**orthopaedic**  
**Faculty of Medicine-Mansoura University**

**(A) Administrative information**

<b>(1) Course Title &amp; Code</b>	<b>orthopedic disease OSUR 525</b>
<b>(2) Final award/degree</b>	<b>Master Degree</b>
<b>(3) Department (s)</b>	<b>Orthopaedic Surgery Department</b>
<b>(4) Coordinator</b>	<b>Dr/ Khalid Nour</b>
<b>(5) External evaluator (s)</b>	<b>Prof. Dr/ Gamal Hosny</b>
<b>(6) Date of approval by the Department's council</b>	<b>11.5.2016</b>
<b>(7) Date of last approval of programme specification by Faculty council</b>	<b>9/8/2016</b>
<b>(8) Credit hours</b>	<b>8</b>

## **(B) Professional information**

### **(1) Program Aims:**

The overall aim of the course is to:

- 1-** Provide the basic principles and relevant theory of orthopedic Surgery.
- 2-** Prepare the candidates to acquire the skills to coordinate and lead the management of the orthopedic patient.
- 3-** Provide advanced training of the evolution of orthopedic Surgery, and forecast possible perspectives on future development.
- 4-** Teach our candidate how to design a clear and defensible method of addressing the question.
- 5-** Encourage our candidates to collect and analyze data and information through primary or secondary data collection and/or systematic use of library resources.
- 6-** Establish the ability to work effectively within a team.

**(2) Intended Learning Outcomes (ILOs):**

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

**A- Knowledge and Understanding**

A1- Identify the general signs and symptoms of each disease.

A2- Select the appropriate diagnostic tools and therapeutic lines for the most important musculoskeletal system dysfunction including applicable recent modalities.

A3- Defines the possible early and late complications for regional musculoskeletal system diseases, infections and tumours.

A4- List the appropriate lines of treatment modalities for selected common musculoskeletal system diseases.

A5- Recognize the common descriptive pharmacological terms and how to correctly use the drug pre and post-operative, clinical instruction and follow-up of side effects and toxicity of different drugs.

## **B- Intellectual skills**

- B1- practice complete history taking and physical examination in appropriate way.
- B2- correlate the finding in patient assessment with different disorders.
- B3- Analyse the clinical and investigational results, with the knowledge and the skill in clinical problem solving.
- B4- Use the investigations tools probably.
- B5- Present the patient problem in scientific organized way.
- B6- Plan the management according to the standard guide lines.
- B7- Manage the complications related to the patient problem or the management procedures.
- B8- Evaluate the efficacy of the treatment prescribed to the patients by identifying clinical and investigative parameters that can be used in assessing the patient's response to treatment.

## **C- Professional/practical skills**

- C1- Perform routine history taking.
- C2- be able to do general and local orthopaedic examination.
- C3- interpret the different investigation tools commonly required for orthopaedic patients.
- C4- Develop communication skills with patients and team work .
- C5- Assess awareness and analysis of differing learning styles, requirements and processes.
- C5- Giving and receiving feedback.

## **D- Communication & Transferable skills**

D1: Conduct sincere and effective patient interviews, properly explain their condition and plan of management, obtain consents and convey bad news in a professional way.

D2: Personal drive, initiative and effectiveness in planning and implementing projects and accomplishing objectives together with the ability to manage time and work to deadlines.

D3: Self-awareness, learning autonomy and appreciation of need for Continuing Professional Development.

D4: Participate constructively in teams and assess the relevance and importance of the ideas of others.

D5 : Communicate, consult and respect the role of other health-care providers

### **(3) Curriculum structure and contents:**

**3.a- Duration of the programme (in years or months): up to 36 months.**

**3.b- programme structure:**

**Orthopedic diseases OSUR525 – 120 Lectures, presenting 8 credit hour +7 credit hours practical.**

#### **Course content:**

<b>Subjects</b>	<b>Lectures</b>	<b>Total Teaching Hours</b>
An over view of osteoarthritis	<b>3 Lecture</b>	<b>3 hours</b>
Surgical treatment of knee O.A	<b>3 Lecture</b>	<b>3 hours</b>
An over view of osteoporosis	<b>3 Lecture</b>	<b>3 hours</b>
Articular cartilage repair	<b>3 Lecture</b>	<b>3 hours</b>

Principles of arthroplasty (primary - revision)	<b>3 Lecture</b>	<b>3 hours</b>
Dupuytren's disease	<b>3 Lecture</b>	<b>3 hours</b>
Principles of microsurgery and clinical applications	<b>3 Lecture</b>	<b>3 hours</b>
Musculoskeletal imaging	<b>3 Lecture</b>	<b>3 hours</b>
An over view of compartment syndrome	<b>3 Lecture</b>	<b>3 hours</b>
Principles of management of benign bone tumors	<b>3 Lecture</b>	<b>3 hours</b>
Principles of management of malignant bone tumors	<b>3 Lecture</b>	<b>3 hours</b>
Principles of management of soft tissue tumors	<b>3 Lecture</b>	<b>3 hours</b>
Principles of management of metastatic bone tumors	<b>3 Lecture</b>	<b>3 hours</b>
Principles of management of management of pathological fractures	<b>3 Lecture</b>	<b>3 hours</b>
An over view of osteochondrities	<b>3 Lecture</b>	<b>3 hours</b>
Lumbar disc prolapse	<b>3 Lecture</b>	<b>3 hours</b>
Spinal canal stenosis	<b>3 Lecture</b>	<b>3 hours</b>
An over view of osteonecrosis	<b>3 Lecture</b>	<b>3 hours</b>
Chronic L.B.P	<b>3 Lecture</b>	<b>3 hours</b>
Spondylolisthesis	<b>3 Lecture</b>	<b>3 hours</b>
Acute osteomyelitis	<b>3 Lecture</b>	<b>3 hours</b>
Chronic osteomyelitis	<b>3 Lecture</b>	<b>3 hours</b>
Diagnosis of nonunion	<b>3 Lecture</b>	<b>3 hours</b>
Infected tibial nonunion	<b>3 Lecture</b>	<b>3 hours</b>
Septic arthritis	<b>3 Lecture</b>	<b>3 hours</b>
An overview of bone healing	<b>3 Lecture</b>	<b>3 hours</b>
Slipped capital femoral epiphysis	<b>3 Lecture</b>	<b>3 hours</b>
Perth's disease	<b>3 Lecture</b>	<b>3 hours</b>
Genu varum	<b>3 Lecture</b>	<b>3 hours</b>

Spinal anatomy and approaches	<b>3 Lecture</b>	<b>3 hours</b>
Inflammatory diseases of the spine	<b>3 Lecture</b>	<b>3 hours</b>
Thoracic spine injuries	<b>3 Lecture</b>	<b>3 hours</b>
Lumbar spine injuries	<b>3 Lecture</b>	<b>3 hours</b>
Cervical spine injuries	<b>3 Lecture</b>	<b>3 hours</b>
Spinal infection	<b>3 Lecture</b>	<b>3 hours</b>
Paralytic hand	<b>3 Lecture</b>	<b>3 hours</b>
Common extensor tendon syndrome	<b>3 Lecture</b>	<b>3 hours</b>
Common flexor tendon syndrome	<b>3 Lecture</b>	<b>3 hours</b>
An introduction of bone tumours	<b>3 Lecture</b>	<b>3 hours</b>
Staging of bone tumours	<b>3 Lecture</b>	<b>3 hours</b>

### Practical training

Subject	Credit hours
History taking	1
Examination of musculoskeletal system	1
How to request and interpret radiology	1
Basic surgical instruments	1
Basic orthopaedic instruments	1
Preoperative planning	1
How to use the software for patients medical records	1

### Second part: 45 weeks

Course Title	Course Code	CREDIT HOURS				Total teaching hours
		Theoretical		Laboratory /practical	Total Credits	
		Lectures	seminars			
orthopaedic	OSUR 525	8		7	15	--- Hours

#### **4. Teaching and learning methods**

4.1. lecturers.

4.2. practical.

4.3. discussion sessions

4.4. Information collection from different sources.

4.5. Attending and participating in scientific meeting and workshops.

#### **5- Student Assessment Methods**

5.1 **Written examination:** to assess **knowledge and intellectual skills**

5.2 **Clinical examination:** to assess **practical and intellectual skills.**

5.3 **Oral examination:** to assess **knowledge.**

#### **Assessment Schedule**

<b>Exam</b>	<b>Mark</b>					<b>Total</b>
	<b>Written</b>	<b>MCQ</b>	<b>Oral</b>	<b>Clinical</b>	<b>Practical</b>	
<b>Orthopaedic</b>	<b>112</b>	<b>28</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>290</b>

Course coordinator:

**Dr.KhalidNour**

Head of the department:

**Prof dr. Hani Elmowafi**

Date: