COURSE SPECIFICATION

(Orthopeadic disease)

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) **Programme offering the course:**	Programme for Postgraduate MD degree of orthopedic surgery
(2) **Department offering the programme:**	Orthopedic surgery department
(3) **Department responsible for teaching the course:**	Orthopedic surgery department
(4) **Part of the programme:**	Orthopedic Surgery
(5) **Date of approval by the Department`s council**	11-5-2016
(6) **Date of last approval of programme specification by Faculty council**	**9/8/2016**
(7) **Course title:**	OrthopedicSurgery
(8) **Course code:**	OSURG 625
(9) **Total teaching hours:**	390

B- Professional Information

1 – Overall Aims of Course

By the end of the program the student should be able to manage orthopedic

Patients and perform all of the general surgicalprocedures and most of special surgical procedures. Also he shouldmaster thebasics of scientific research and apply the analytic methods for knowledge inthe orthopedic surgery field.

2 – Intended Learning Outcomes of Course (ILOs):

A- Knowledge and understanding:

By the end of the course, the student is should be able to:

A1. Mention the normal structure and function of the human musculoskeletal system and its relation to surgical procedures

A2. Explain the normal growth of the human musculoskeletal system.

A3. List the abnormal structure, function, growth and development of human musculoskeletal
system.

A4. Discuss the natural history of orthopedic problems.

A5. Discuss the causation of orthopedic problems .

A6. Discuss scientific developments in the field of orthopedic surgery .

A7. Mention Ethical and legal principles of professional practice in the field of orthopedic surgery

A8. Mention the principles and fundamentals of quality in professional practice in the field oforthopedics.

B-Intellectual Skills

By the end of the course, the student should be able to:

B1. Solve the problems in the area of orthopedic diseases.

B2. analyze researches and issues related to orthopedicdiseases.

B3. Assess risk in professional practices in the field of orthopedic diseases.

B4. professional decision Making in light of the available data.

C-Professional and Practical Skills:

By the end of the course, the student should be able to:

C1. Master the professional clinical and surgical skills in the area of orthopedic diseases.

C2. Write medical reports.

C3. Use imaging, electrophysiological and endoscopic data in diagnosis of orthopedic problems

D-Communication and Transferable Skills:

By the end of the course, the student should be able to:

D1. Present orthopedic cases in seminars effectively.

D2. Assess himself and identify his personallearning needs.

D3. Use of different sources for information and knowledge of orthopedic diseases.

D4. Work coherently and successfully as a part of a team and effectively manage time.

D5. lead a team in familiar professional contexts

D6. Obtain knowledge continuously and independently in orthopedicfield.

4-Curriculum structure and contents:

4.a- Duration of the programme: 36 months.

4.b- programme structure:

Candidates should fulfill a total of 12 credit hours + 7 credit hours practical

- 4.b.1: Number of credit hours

5– Teaching and Learning Methods

5.1 Lectures.
5.2 Practical / surgical /clinical lessons
5.3 Discussion sessions.
5.4 Information collection from different sources.
5.5 Attending and participating in scientific meeting and workshops

6- Student Assessment Methods:

6.1 **Written examination**: to assess **knowledge.**
6.2 **Clinical examination**: to assess **practical and intellectual skills**.
6.3 **Oral examination:** to assess **knowledge**.

- **Written exam: Orthopedics 82 Degrees.**
- **Commentary exam for disease: 30Degrees**
- **Clinical exam:**
  50 Degrees for disease
- **Oral exam:**
  50 Degrees for disease
- **Operative exam:.**
  50 Degrees for disease
- **Total degree 290**

7- List of References

7.1- Essential Books

(Text Books)

Campell's Operative Orthopedic

7.2- Recommended Books:

- Stanley's Surgical approaches

8- Periodicals and Web Sites:

Spine Journal
British bone and joint Journal
American bone and joint Journal
Journal of hand and microsurgery
Clinical Orthopedic Journal

9- Facilities Required for Teaching and Learning

-Adequate infrastructure including teaching rooms, comfortable desks.
-Teaching tools including screen, slide Projector, computer and data show.

10-Programme admission requirements:

According to the faculty postgraduate bylaws.

Orthopedic Surgery: 45 weeks

Course Title	Course Code	NO. of hours per week					Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)
		Theoretical		practical		Total Credits		
		Lectures	seminars					
Orthopedic surgery	OSUR G 625	180		210		19	390 Hours	

Course content:

Subjects	Lectures	Total Teaching Hours
An over view of osteoarthritis	**4 hours**	**4 hours**
Surgical treatment of knee O.A	**4 hours**	**4 hour**
An over view of osteoporosis	**4 hours**	**4 hours**
Articular cartilage repair	**4 hours**	**4 hours**
Principles of arthroplasty (primary - revision)	**6 hours**	**6hours**
Dupuytren's disease	**4hours**	**4 hours**
Principles of microsurgery and clinical applications	**6 hours**	**6 hours**
Musculoskeletal imaging	**4 hours**	**2 hour**
An over view of compartment syndrome	**4 hours**	**2 hours**
Principles of management of benign bone tumors	**4 hours**	**4 hours**
Principles of management of malignant bone tumors	**4 hours**	**4 hours**
Principles of management of soft tissue tumors	**4 hours**	**4 hours**
Principles of management of metastatic bone tumors	**4 hours**	**4 hours**
Principles of management of management of pathological fractures	**4 hours**	**4 hours**
An over view of osteochondrities	**4 hours**	**4 hours**
Lumbar disc prolapse	**4hours**	**4 hours**
Spinal canal stenosis	**4hours**	**4 hours**
An over view of osteonecrosis	**4 hours**	**4hours**
Chronic L.B.P	**6 hours**	**6hours**
Spondylolisthesis	**4 hours**	**4 hours**
Acute osteomyelitis	**4 hours**	**4hours**
Chronic osteomyelitis	**4 hours**	**4 hours**

Diagnosis of nonunion	**4 hours**	**4 hours**
Infected tibial nonunion	**4 hours**	**4 hours**
Septic arthritis	**4 hours**	**4 hours**
An overview of bone healing	**4 hours**	**4 hours**
Slipped capital femoral epiphysis	**4 hours**	**4 hours**
Perth's disease	**4 hours**	**4 hours**
Genu varum	**4 hours**	**4 hours**
Spinal anatomy and approaches	**4 hours**	**4hours**
Inflammatory diseases of the spine	**5hours**	**5 hours**
Thoracic spine injuries	**5 hours**	**5 hours**
Lumbar spine injuries	**6 hours**	**6 hours**
Cervical spine injuries	**4 hours**	**4 hours**
Spinal infection	**5 hours**	**5 hours**
Paralytic hand	**4 hours**	**4 hours**
Common extensor tendon syndrome	**4 hours**	**4 hours**
Common flexor tendon syndrome	**5hours**	**5 hours**
An introduction of bone tumours	**4 hours**	**4 hours**
Staging of bone tumours	**4hours**	**4 hours**

Practical training

Subject	Credit hours
History taking	1
Examination of muscloskeletal 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

- **Course Coordinator: DrAdhamElsharkawy**
- **Head Of Department: Dr Hani Elmowafi**