COURSE SPECIFICATION

(MD Orthopeadic traumatology)

Faculty of Medicine– Mansoura University

(A) Administrative information

(1) Programme offering the course:	Programme for Postgraduate MD degree of orthopedic surgery,Traumatology
(2) Department offering the programme:	Orthopedic surgery department
(3) Department responsible for teaching the course:	Orthopedic surgery department
(4) Part of the programme:	traumatology
(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:	Traumatology
(8) Course code:	OSURG 625TR
(9) Total teaching hours:	180 hours

B- Professional Information

1 – Overall Aims of Course

By the end of the program the student should be able to manage orthopedicPatients, trauma cases, and perform all of the general surgicalprocedures and most of special surgicalprocedures. Also he should master thebasics of scientificresearch 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 traumatology problems.

A5. Discuss the causation of orthopedic traumatology problems .

A6. Enumerate methods of fixation of different fracture patterns.

A7. Define the trauma management

A8. Discuss scientific developments in the field of orthopedic surgery and traumatology

A9. Mention Ethical and legal principles of professional practice in the field of orthopedic Traumatology

A10. Mention the principles and fundamentals of quality in professional practice in the field of orthopedics traumatology.

B- Intellectual Skills

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

B1. Apply the standard guide lines in trauma management.

B2. Assess the traumatized patient in scientific chronological way.

B3. Plan the management according to available patient data.

B4. Manage the expected and unexpected complications

B5.Apple to work in trauma team.

C- Professional and Practical Skills:

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

C1. Perform the guide lines of basic life support.

C2. Apply the 1st aid plints and support for traumatized patients.

C3. Use the investigation tools in appropriate way in trauma.

D-Communication and Transferable Skills:

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

D1. Communicate and cooperate with trauma team members.

D2. .use the computer in administarion process and communication with team members.

D3. Develop presentation skills to present patient problem and the management plan.

D4.learn skills for applying management plans.

D5. Develop skills in working under stress situations

D6. Search the literatures and present the updated informations to the team work.

4-Curriculum structure and contents:

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

4.b- programme structure:

Candidates should fulfill a total of 12credit hours+ 8 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**.

Assessment Schedule

- Written exam: Orthopedics 82 Degrees. MCQ: 28
- Commentary exam for trauma: 30Degrees
- Clinical exam:

  50 Degrees for trauma
- Oral exam:

  50 Degrees for trauma
- Operative exam:.

  50 Degrees for trauma
- Total degree 290

7- List of References

7.1- Essential Books (Text Books)

Campell's Operative Orthopedic

7.2- Recommended Books:

- Manual of internal fixation
- 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.

(1) Course content:

Subjects	Lectures	Total Teaching Hours
Applied anatomy of the pelvis and acetabulum	4 hours	4 hours
Surgical approaches in orthopaedics	4 hours	4 hour
Applied anatomy of the spine	4 hours	4 hours
Metabolic and immunological response to trauma	4 hours	4 hours
General principles of paediatric trauma	6 hours	6hours
Management of poly trauma patient	4hours	4 hours
Principles of management of open fractures	6 hours	6 hours
Principles of internal fixation in orthopaedic trauma	4 hours	2 hour
Principles of external fixation in orthopaedic trauma	4 hours	2 hours
Complication of fractures	4 hours	4 hours
An overview of nonunion & delayed union	4 hours	4 hours
Applied anatomy of the neurovascular system in upper & lower limbs and pelvis	4 hours	4 hours
An introduction to pelvic fractures	4 hours	4 hours
Consent and patient preparation for fracture fixation	4 hours	4 hours
An introduction to acetabular fractures	4 hours	4 hours
An introduction to treatment of dislocation of the hip joint	4hours	4 hours
Femoral neck fractures	4hours	4 hours
Trochanteric &subtroch. femoral Fractures	4 hours	4hours
Femoral shaft fractures	6 hours	6hours

Supracondylar femoral fractures	4 hours	4 hours
Tibial plateau fractures	4 hours	4hours
Tibial shaft fractures	4 hours	4 hours
Pilon's fractures of the distal tibia	4 hours	4 hours
An over view of fracture talus	4 hours	4 hours
Extra articular calcaneal fractures	4 hours	4 hours
An over view fracture-dislocation of the shoulder griddle	4 hours	4 hours
Glenohumeral joint dislocation	4 hours	4 hours
Proximal humeral fractures	4 hours	4 hours
Humeral shaft fractures	4 hours	4 hours
Fractures around the elbow	4 hours	4hours
Forearm fractures	5hours	5 hours
Distal radial fractures	5 hours	5 hours
Scaphoid fractures	6 hours	6 hours
An overview of tendon injuries of the hand	4 hours	4 hours
An overview of spinal fractures	5 hours	5 hours
Biomechanics of fracture fixation	4 hours	4 hours
Prophylactic antibiotics in orthopaedics& Traumatology	4 hours	4 hours
DVT prophylaxis in orthopaedics& Traumatology	5hours	5 hours
Traction in orthopaedics& Traumatology	4 hours	4 hours
Diagnosis of nonunion	4hours	4 hours
Infected tibial nonunion	4 hours	4 hours
Knee dislocation and fracture dislocation	4 hours	4 hour
Knee extensor mechanism injuries	4 hours	4 hours

Meniscal knee injuries	4 hours	4 hours
Intraarticular calcaneal fractures	6 hours	6hours
Peritalar fracture dislocation	4hours	4 hours
Proximal femoral anatomy and recent concept of blood supply	6 hours	6 hours
Hip fracture dislocation	4 hours	2 hour
Femoral head fractures	4 hours	2 hours
Osteosynthesis in pelvic fractures	4 hours	4 hours
Osteosynthesis in acetabular fractures	4 hours	4 hours
Spinal anatomy and approaches	4 hours	4 hours
Thoracic spine injuries	4 hours	4 hours
Lumbar spine injuries	4 hours	4 hours
Cervical spine injuries	4 hours	4 hours
Paralytic hand	4hours	4 hours
Achilles tendon injuries	4hours	4 hours
Ligamentous ankle injuries	4 hours	4hours

Practical training

Subject	Credit hours
Management of pelvic fractures	1
Advancedprinciples of external fixation	1
advanced principles of internal fixation	1
Adanced trauma life support	1
Radiological evaluation in trauma (CT,MRI)	2
Post-operative care of poly trauma Patients	1
Spinal fractures	1

- **Course Coordinator: Dre AdhamElsharkawy**
- **Head Of Department: Dr Hani Elmowafi**