Course SPECIFICATION

Traumatology

Faculty of Medicine-MansouraUniversity

(A) Administrative information

(1) Programme Title & Code	orthopedic Traumatology OSUR 525TR
(2) Final award/degree	Master Degree
(3) Department (s)	Orthopaedic Surgery Department
(4) Coordinator	Dr/ barakat el alfy
(5) External evaluator (s)	Prof. Dr/ EzzatKamel
(6) Date of approval by the Department`s council	11.5.2016
(7) Date of last approval of programme specification by Faculty council	9/8/2016
(8) Credit hours	16

(B) Professional information

(1) Program Aims:

The overall aim of the course is to:

1- Provide the principles and relevant theory of Trauma Surgery, in relation to resuscitation, critical care, immediate life saving surgery and reconstructive surgery, allied with the process of healing.

2- Prepare the candidates to acquire the skills to coordinate and, where appropriate, deliver or lead the management of the trauma patient from injury to recovery.

3- Provide with advanced training of the evolution of Trauma Surgery, and forecast possible perspectives on future development.

4- Teach our candidate how to design a clear and defendable 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)
A-knowledge and understanding:

A1- define the general signs of fractures and joints injuries.

A2-classify the patients according to severity of trauma using trauma scoring systems.

A3- describe the patient condition in scientific way.

A4- review the literature for updated management protocol.

A5- discuss and present the patient data with trauma team.

A6- identify the risk factors and complications of the treatment procedures.

B- Intellectual skills

B1-practice physical assessment to the diagnosis of musculoskeletal dysfunction.

B2- apply a complete medical history and physical examination.

B3- Analyse the clinical and investigational results.

B4- classify different types of fractures.

C- Professional/practical skills

C1- exmine the patients in emergency room.

C2- set up a management plan.

C3-develop skills in basic life support protocol.

C4- Be able to diagnose and deal with the life threatening conditions.

D- Communication & Transferable skills

D1- uses the computer and technology in medicine.

D2-present the patient's data in weekly trauma meeting.

D3- Communicate with the colleges in respected appropriate way.

D3- develops skills in communication with patients and how to deal with bad news.

(3) Curriculum structure and contents:

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

3.b- course structure:

Orthopedic traumatology OSUR525TR – 135 Lectures, presenting 9 credit hours + 7 practical training.

Course content:

Subjects	Lectures	Total Teaching Hours
Applied anatomy of the pelvis and acetabulum	**2 Lectures**	**2 hours**
Surgical approaches in orthopaedics	**4 Lectures**	**4 hours**
Applied anatomy of the spine	**3 Lectures**	**3 hours**
Metabolic and immunological response to trauma	**3 Lectures**	**2 hours**
General principles of paediatric trauma	**4 Lectures**	**2 hours**
Management of poly trauma patient	**3 Lectures**	**3 hours**
Principles of management of open fractures	**2 Lectures**	**2 hours**
Principles of internal fixation in orthopaedic trauma	**4 Lecture**	**4 hours**
Principles of external fixation in orthopaedic trauma	**4 Lectures**	**4 hours**
Complication of fractures	**2 Lectures**	**2 hours**
An overview of nonunion & delayed union	**2 Lectures**	**2 hours**
Applied anatomy of the neurovascular system in upper & lower limbs and pelvis	**4 Lectures**	**4 hours**

An introduction to pelvic fractures	**3Lectures**	**3 hours**
Consent and patient preparation for fracture fixation	**2 Lectures**	**2 hours**
An introduction to acetabular fractures	**2 Lectures**	**2 hours**
An introduction to treatment of dislocation of the hip joint	**2 Lectures**	**2 hours**
Femoral neck fractures	**2 Lectures**	**2 hours**
Trochanteric &subtroch. femoral Fractures	**2 Lectures**	**2 hours**
Femoral shaft fractures	**2 Lectures**	**2 hours**
Supracondylar femoral fractures	**2 Lectures**	**2 hours**
Tibial plateau fractures	**2 Lectures**	**2 hours**
Tibial shaft fractures	**2 Lectures**	**2 hours**
Pilon's fractures of the distal tibia	**2 Lectures**	**2 hours**
An over view of fracture talus	**2 Lectures**	**2 hours**
Extra articular calcaneal fractures	**2 Lectures**	**2 hours**
An over view fracture-dislocation of the shoulder griddle	**2 Lectures**	**2 hours**
Glenohumeral joint dislocation	**2 Lectures**	**2 hours**
Proximal humeral fractures	**2 Lectures**	**2 hours**
Humeral shaft fractures	**2 Lectures**	**2 hours**
Fractures around the elbow	**2 Lectures**	**2 hours**
Forearm fractures	**2 Lectures**	**2 hours**
Distal radial fractures	**2 Lectures**	**2 hours**
Scaphoid fractures	**2 Lectures**	**2 hours**
An overview of tendon injuries of the hand	**2 Lectures**	**2 hours**
An overview of spinal fractures	**2 Lectures**	**2 hours**
Biomechanics of fracture fixation	**2 Lectures**	**2 hours**

Prophylactic antibiotics in orthopaedics& Traumatology	**3 Lecture**	**3 hours**
DVT prophylaxis in orthopaedics& Traumatology	**2 Lectures**	**2 hours**
Traction in orthopaedics& Traumatology	**2 Lectures**	**2 hours**
Diagnosis of nonunion	**2 Lectures**	**2 hours**
Infected tibial nonunion	**2 Lectures**	**2 hours**
Knee dislocation and fracture dislocation	**2 Lectures**	**2 hours**
Knee extensor mechanism injuries	**2 Lectures**	**2 hours**
Meniscal knee injuries	**2 Lectures**	**2 hours**
Intraarticular calcaneal fractures	**2 Lectures**	**2 hours**
Peritalar fracture dislocation	**2 Lectures**	**2 hours**
Proximal femoral anatomy and recent concept of blood supply	**2 Lectures**	**2 hours**
Hip fracture dislocation	**2 Lectures**	**2 hours**
Femoral head fractures	**2 Lectures**	**2 hours**
Osteosynthesis in pelvic fractures	**3 Lectures**	**3 hours**
Osteosynthesis in acetabular fractures	**3 Lectures**	**3 hours**
Spinal anatomy and approaches	**2 Lectures**	**2 hours**
Thoracic spine injuries	**2 Lectures**	**2 hours**
Lumbar spine injuries	**3 Lectures**	**3 hours**
Cervical spine injuries	**3 Lectures**	**3 hours**
Paralytic hand	**2 Lectures**	**2 hours**
Achilles tendon injuries	**2 Lectures**	**2 hours**
Ligamentous ankle injuries	**2 Lectures**	**2 hours**

Practical training:

Subject	Credit hours
Splints and casts	1
Basic principles of external fixation	1
Basic principles of internal fixation	1
Examination of poly trauma Patients	1
Radiological evaluation in trauma	1
Post-operative care of poly trauma Patients	1
Open fractures	1

Second part: 45 weeks

Course Title	Course Code	NO. of hours per week					Total teaching hours	Programme ILOs covered (REFERRING TO MATRIX)
		Theoretical		Laboratory /practical		Total Credits		
		Lectures	seminars					
Traumatology	OSUR 525 TR	135		7		16	345 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; COMMUNICATION**.
6.3 **Oral examination:** to assess **knowledge**.

Assessment Schedule

Exam	Mark					Total
	Written	MCQ	Oral	Clinical	Practical	
Orthopaedic	112	28	50	50	50	290

Course coordinator:
Dr.KhalidNour
Head of the department:
Prof dr. Hani Elmowafi
Date: