

Subject Title:	ORTHOPADICS (TRAUMATIC)
Subject Code:	1PT1010205
Year:	Second Year
Pre-requisite Subject	-NONE-

Objectives of course:

At the end of the course, the student will be able to

1. Discuss the patho-physiology, clinical manifestations and conservative/surgical management of various traumatic and cold cases of the musculo-skeletal conditions
2. Traumatic and cold cases both operative and non operative
3. Gain the skill of clinical examination and interpretation of the preoperative cold cases and all the post operative cases
4. Read and interpret a) salient features of the x-ray of the spine and extremities, b) pathological/ biochemical studies pertaining to orthopedic conditions
5. Correlate the radiological findings with the clinical findings.

Teaching Scheme (Hours)			Evaluation Scheme (Marks)					
Lecture	Practical	Total	Theory(T)		Practical(P)		Total Marks	
			University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	Theory	Practical
60	-	60	40	10	-	-	50	-

Subject Contents			
Sr. No.	Topic	Total Hours	Weight (%)
1	Introduction: Fracture, dislocation and injuries of the upper limb. Briefly mention general principles of Orthopedic surgery, definition and scope, brief history		
2	Fracture & dislocations: Causes, types, mechanisms, displacement, general symptoms, healing, principles of treatment, complications, malunion, delayed union, non-union, myositis ossificans, Volkman's ischemic contracture, Fat embolism, Sudeck's osteodystrophy		
3	Injuries to the hand: Types (open, closed), principles of treatment, injuries to the phalanges, sprains, dislocations of MP & IP joints, fractures of the phalanges, metacarpals, Bennet's fracture, mallet finger, tendon injuries (flexor & extensor)		
4	Wrist & Forearm injuries: Wrist dislocation, Colle's fracture, displaced epiphysis, Smith's fracture, Barton's fracture, injuries to carpal, scaphoid and sprains, fractures of forearm bones – greenstick fracture. Infracoracoid injury, both bone fracture, Galeazzi, Monteggia fracture dislocation		
5	Injuries to the elbow: Traumatic synovitis, sprain, dislocation of elbow joint		
6	Fractures involving elbow joint: Supracondylar fracture, intercondylar fracture, fracture medial epicondyle, fracture of lateral condyle, myositis		

	ossificans, Volkman's ischaemic contracture, fracture of the head of the radius, fracture of olecranon		
7	Injuries of shoulder and arm: Fractures of the proximal end, neck and shaft of humerus, fractures of clavicle, acromioclavicular and sternoclavicular dislocations, fractures of the scapula		
8	Injuries of the spine: Injuries to the cervical spine (Both upper and lower), atlanto-axial injuries Dorso Lumbar spine: classification, mechanism and types of injuries, stable fracture without paraplegia, fracture dislocation with paraplegia, management of fracture, management of paraplegia, bedsores and bladder care .		
9	Injuries of the pelvis: Fractures, its mechanism, classification, management, Fractures of acetabulum, sacrum and coccyx		
10	Injuries of the lower limb: Dislocations of the hip joint, intracapsular and trochanteric fractures of femur, fractures of the neck of femur, fracture of the shaft of femur, fracture femur in children Fracture of femoral condyles, tibial condyles and patella. Injuries to extensor mechanism, contusion, haemarthrosis, knee joint dislocation and traumatic dislocation of patella Fracture and fracture dislocation of ankle, epiphyseal injury lower end of tibia Foot- fracture of talus, calcaneum, metatarsals and phalanges		
11	Soft tissue injuries: Ligamentous injuries of ankle, knee and injury to Muscles. Orthopaedic splints and appliances for injuries to muscles and tendons		
12	Tendon transfer: Principles, indications, common tendon transfer surgeries		
13	Amputation : Types, site, ideal stump, complications, general principles of treatment Upper extremity and lower extremity amputations – prosthesis and prosthetic service Principles of operative management, indications and contraindications for arthroplasty, osteotomy, arthrodesis, spinal stabilization, arthroscopy		
14	Limb reattachment		
Total Hours		60	