

Number	COMPETENCY The student should be able to	Domain K/S/A/C	Level K/KH/ SH/P
OR1.1	Describe and discuss the Principles of pre-hospital care and Casualty management of a trauma victim including principles of triage	K/S/A/C	K/KH
OR1.2	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of shock	K/S	K/KH
OR1.3	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of soft tissue injuries	K	KH/SH
OR1.4	Describe and discuss the Principles of management of soft tissue injuries	K	K/KH
OR1.5	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of dislocation of major joints, shoulder, knee, hip	K	K/KH
OR1.6	Participate as a member in the team for closed reduction of shoulder dislocation / hip dislocation / knee dislocation	K/S/A/C	SH
OR2.1	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fracture of clavicle	K/S	KH/SH
OR2.2	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fractures of proximal humerus	K	K/KH/ SH
OR2.3	Select, prescribe and communicate appropriate medications for relief of joint pain	K	KH/SH
OR2.4	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of fracture of shaft of humerus and intercondylar fracture humerus with emphasis on neurovascular deficit	K/S	K/KH
OR2.5	Describe and discuss the aetiopathogenesis, clinical features, mechanism of injury, investigation & principles of management of fractures of both bones forearm and Galeazzi and Monteggia injury	K	K/KH
OR2.6	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of distal radius	K	KH
OR2.7	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of pelvic injuries with emphasis on hemodynamic	K	K/KH/ SH

OR2.8	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of spine injuries with emphasis on mobilisation of the patient		K	K/KH
OR2.9	Describe and discuss the mechanism of injury, Clinical features, investigations and principle of management of acetabular fracture		K	K/KH
OR2.12	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Fracture shaft of femur in all age groups and the recognition and management of fat embolism as a complication		K	K/KH
OR2.13	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of: (a) Fracture both bones leg (b) Calcaneus (c) Small bones of foot		K	K/KH
OR2.14	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of ankle fractures		K/S/C	K/KH
OR2.15	Plan and interpret the investigations to diagnose complications of fractures like malunion, non-union, infection, compartmental syndrome		K/S	SH
OR2.16	Describe and discuss the mechanism of injury, clinical features, investigations and principles of management of open fractures with focus on secondary infection prevention and		K	K/KH
OR3.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of Bone and Joint infections a) Acute Osteomyelitis b) Subacute osteomyelitis c) Acute Suppurative arthritis d) Septic arthritis & HIV infection e) Spirochaetal infection f) Skeletal Tuberculosis		K/S	K/KH/ SH
OR3.3	Participate as a member in team for procedures like drainage of abscess, sequestrectomy/ saucerisation and arthrotomy		K/S/A/C	SH
OR4.1	Describe and discuss the clinical features, Investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abscess and caries spine		K	K/KH
OR5.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of various inflammatory disorder of joints		K	K/KH

OR6.1	Describe and discuss the clinical features, investigations and principles of management of degenerative condition of spine (Cervical Spondylosis, Lumbar Spondylosis, PID)		K	K/KH
OR7.1	Describe and discuss the aetiopathogenesis, clinical features, investigation and principles of management of metabolic bone disorders in particular osteoporosis, osteomalacia, rickets, Paget's disease		K	K/KH
OR8.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management a patient with Post Polio Residual Paralysis		K	K/KH
OR9.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management of Cerebral palsy patient		K	K/KH
OR10.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of benign and malignant bone tumours and pathological fractures		K	K/KH
OR11.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of peripheral nerve injuries in diseases like foot drop, wrist drop, claw hand, palsies of Radial, Ulnar, Median, Lateral Popliteal and Sciatic Nerves		K	K/H
OR12.1	Describe and discuss the clinical features, investigations and principles of management of Congenital and acquired malformations and deformities of: a. limbs and spine - Scoliosis and spinal bifida b. Congenital dislocation of Hip, Torticollis, c. congenital talipes equino varus		K	KH
OR13.1	Participate in a team for procedures in patients and demonstrating the ability to perform on mannequins / simulated patients in the following: i. Above elbow plaster ii. Below knee plaster iii. Above knee plaster iv. Thomas splint v. splinting for long bone fractures vi. Strapping for shoulder and clavicle trauma		S/A	KH / SH
OR13.2	Participate as a member in team for Resuscitation of Polytrauma victim by doing all of the following : (a) I.V. access central - peripheral (b) Bladder catheterization (c) Endotracheal intubation (d) Splintage		S/A	KH / SH

OR14.1	Demonstrate the ability to counsel patients regarding prognosis in patients with various orthopedic illnesses like a. fractures with disabilities b. fractures that require prolonged bed stay c. bone tumours d. congenital disabilities		K/S/A/C	KH / SH
OR14.2	Demonstrate the ability to counsel patients to obtain consent for various orthopedic procedures like limb amputation, permanent fixations etc..		K/S/A/C	KH / SH
OR14.3	Demonstrate the ability to convince the patient for referral to a higher centre in various orthopedic illnesses, based on the detection of warning signals and need for sophisticated management		K/S/A/C	KH / SH

**Column C: K- Knowledge, S – Skill, A - Attitude / professionalism, C- Communication. Column D: K – Know
session – Demonstrate, Observe, As
Column H: If entry is P: indicate how many procedures must be do**

Core (Y/N)	Suggested Teaching Learning method	Suggested Assessment method	Vertical integration	Horizontal integration	
Y	Lecture with video, Small group discussion	Written/ Viva voce/ OSCE/ Simulation		General Surgery, Anaesthesiology	
Y	Lecture	Written/ Viva voce/ OSCE/ Simulation		General Surgery	
Y	Lecture, Small group discussion	Written/ OSCE		General Surgery	
Y	Lecture, Small group discussion	Written/ Assesment/ Viva voce		General Surgery	
Y	Lecture, Small group discussion, Bed side clinic	Written/ Viva voce/ OSCE/ Simulation			
Y	Simulation, DOAP session	OSCE/ Simulation			
Y	Lecture, Small group discussion, Bed side clinic	Written/ Viva voce/ OSCE	Human Anatomy		
Y	Lecture, Small group discussion, Bed side clinic	Written/ Viva voce/ OSCE	Human Anatomy		
Y	Lecture, Small group discussion, Bed side clinic	Written/ Viva voce/ OSCE	Human Anatomy		
Y	Lecture, Small group discussion, Bed side clinic	Written/ Viva voce/ OSCE	Human Anatomy		
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE	Human Anatomy		
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE	Human Anatomy		
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE	Human Anatomy		

Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE	Human Anatomy		
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE	Human Anatomy		
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, Video assisted lecture	Written/ Viva voce/ OSCE			
Y	DOAP session, Video demonstration	Viva voce/ OSCE/ Skills assessment			
Y	Lecture, Small group discussion, Case discussion	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, Bedside clinic	Written/ Viva voce/ OSCE			

Y	Lecture, Small group discussion, Case discussion	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, Case discussion	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, Case discussion	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, Video assisted interactive lecture	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion, case discussion	Written/ Viva voce/ OSCE			
Y	Lecture, Small group discussion	Written/ Viva voce/ OSCE			
Y	Case discussion, Video assisted Lecture, Small group discussion, Teaching, Skill lab sessions	OSCE with Simulation based assessment			
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vs, KH - Knows How, SH - Shows how, P- performs independently, Column F: DOAP sess, Perform. ne independently for certification/ graduation					