

ORTHOPAEDICS (CODE : 0

Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
ORTHOPAEDICS							
Topic: Skeletal Trauma, Poly trauma		Number of competencies : (06)				Number of proced	
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	Y	a) Describe prehospital care of a trauma victim including splinting techniques b) Discuss casualty management of a trauma victim including principles of triage	02.10.2021	08.30 to 09.30am
OR1.2	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of shock	K/S	K/KH	Y	a) Describe the etiopathogenesis & clinical features of shock. b) Classify shock and enumerate the management of shock	09.10.2021	08.30 to 09.30am
OR1.3	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of soft tissue injuries	K	KH/SH	Y	a) Describe the etiopathogenesis, clinical features in soft tissue injuries b) Describe principles of management of soft tissue injuries.	16.10.2021	08.30 to 09.30am
OR1.4	Describe and discuss the Principles of management of soft tissue injuries	K	K/KH	Y	a) Describe principles of management of soft tissue injuries.	23.10.2021	08.30 to 09.30am
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	Y	a) Classify joint dislocations of major joints like shoulder, knee & hip. b) Describe the techniques of reduction and post reduction case.	06.11.2021 & 13.11.2021	08.30 to 09.30am
OR1.6	Participate as a member in the team for closed reduction of shoulder dislocation / hip dislocation / knee dislocation	K/S/A/C	SH	Y	a) Assist in shoulder reduction / hip reduction / knee reduction b) Assist in application of post reduction splint / slabs.	20.11.2021	08.30 to 09.30am
Topic : Fractures		Number of competencies : (16)				Number of procedures that require certificati	
OR2.1	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fracture of clavicle	K/S	KH/SH	Y	a) Discuss the mechanism of injury, clinical features and clinical evaluation of patient with clavicle fractures. b) List the diagnostic modalities and management of clavicle fracture.	27.11.2021	08.30 to 09.30am
Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time

OR2.2	Describe and discuss the mechanism of Injury, clinical features, investigations and plan management of fractures of proximal humerus	K	K/KH/ SH	Y	a) Discuss the MOI, CF & clinical evaluation of patient with proximal humerus fractures. b) Classify proximal humerus fractures c) Describe diagnosis & treatment of proximal humerus fracture.	04.12.2021	08.30 to 09.30am
OR2.3	Select, prescribe and communicate appropriate medications for relief of joint pain	K	KH/SH	Y	a) Classify a) List of various NSAIDS, opioid related analgesics use in pain management b) Prescribe NSAIDS Opioids using accurate dosage, route of administration, dilutions. c) Communicate side effects and during interactions of NSAIDS / Opioid analgesics.	11.12.2021	08.30 to 09.30am
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	Y	a) Describe mechanism of injury CF / INV / management of shaft of humerus fractures. b) Describe clinical fractures, causes of nerve injuries in shaft of humerus fracture & its management c) Describe MOI / CF / INV / management of supracondylar humerus of intercondylar humerus fracture and its complications like neurovascular deficits.	18.12.2021	08.30 to 09.30am
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	Y	a) Describe the etiopathogenesis / CF / INV / management of BB FA / Galeazzi & Monteggia fracture.	08.01.2022	08.30 to 09.30am
OR2.6	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of distal radius	K	KH	Y	a) Discuss etiopathogenesis / CF / INV used in diagnosis of distal radius fracture b) Discuss management of distal radius fracture.	22.01.2022	08.30 to 09.30am

OR2.7	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of pelvic injuries with emphasis on hemodynamic instability	K	K/KH/ SH	Y	a) Discuss etiopathogenesis / MOI /CF & clinical evaluation of a patient with pelvic fracture b) List signs & symptoms indicating shock in cases of pelvic fractures. c) List radiological modalities in diagnosing pelvic fracture d) Describe management of pelvic fracture & its complications.	29.01.2022	08.30 to 09.30am
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	Y	At the end of the lecture students should be able to describe management of spine injuries. At the end of the lecture students should be able to enumerate aetiopathogenesis of spine injuries.	05.02.2022	08.30 to 09.30am
OR2.9	Describe and discuss the mechanism of injury, Clinical features, investigations and principle of management of acetabular fracture	K	K/KH	Y	At the end of the lecture students should be able to describe Clinical features of acetabular fracture. At the end of the lecture students should be able to describe management of acetabular fracture.	12.02.2022	08.30 to 09.30am
Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
OR2.10	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of proximal femur	K/S/A/C	KH	Y	At the end of the lecture students should be able to describe mechanism of injury of fractures of proximal femur. At the end of the lecture students should be able to describe principles of management of fractures of proximal femur.	19.02.2022	08.30 to 09.30am
OR2.11	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of	K	K/KH	Y	At the end of the lecture students should be able to discuss aetiopathogenesis of Fracture distal femur.		

	(a) Fracture patella (b) Fracture distal femur (c) Fracture proximal tibia with special focus on neurovascular injury and compartment syndrome				At the end of the lecture students should be able to discuss mechanism of injury of Fracture patella. At the end of the lecture students should be able to describe clinical features of fracture of proximal tibia.	26.02.2022 & 05.03.2022	08.30 to 09.30am
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	Y	At the end of the small group discussion students should be able to describe aetiopathogenesis of fracture shaft of femur in all age groups. At the end of the small group discussion students should be able to recognize fat embolism in fracture shaft of femur.	12.03.2022	08.30 to 09.30am
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	Y	At the end of the lecture students should be able to discuss aetiopathogenesis of Fracture calcaneus. At the end of the lecture students should be able to describe clinical features of tibial shaft fracture. At the end of the lecture students should be able to describe investigation of small bones of foot fracture.	19.03.2022 & 26.03.2022	08.30 to 09.30am
OR2.14	Describe and discuss the aetiopathogenesis, clinical features, Investigation and principles of management of ankle fractures	K/S/C	K/KH	Y	At the end of the lecture students should be able to describe aetiopathogenesis of ankle fractures. At the end of the lecture students should be able to discuss principles of management of ankle fractures.	07.04.2022	08.30 to 09.30am
OR2.15	Plan and interpret the investigations to diagnose complications of fractures like malunion, non-union, infection, compartmental syndrome	K/S	SH	Y	At the end of the lecture students should be able to interpret non union in xray . At the end of the lecture students should be able to interpret the investigations to infections.	21.04.2022 & 28.04.2022	08.30 to 09.30am

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 management	K	K/KH	Y	At the end of the lecture students should be able to describe the mechanism of injury open fractures. At the end of the lecture students should be able to discuss the management of secondary infection in open fractures . At the end of the lecture students should be able to describe clinical features of open fractures.	05.05.2022	08.30 to 09.30am
Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
Topic : Musculoskeletal infection		No of Competencies : (03)			Number of Procedures that require certification : (03)		
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	Y	At the end of the lecture students should be able to describe clinical feature of acute osteomyelitis. At the end of the lecture students should be able to describe management of septic arthritis. At the end of the lecture students should be able to discuss investigations of skeletal tuberculosis.	12.05.2022 & 19.05.2022	08.30 to 09.30am
OR3.2	Participate as a member in team for aspiration of joints under supervision	K/S/A/C	SH	Y	At the end of the small group discussion students should be able to describe procedure for joint aspiration. At the end of the small group discussion students should be able to demonstrate joint aspiration in mannequin.	26.05.2022	08.30 to 09.30am
OR3.3	Participate as a member in team for procedures like drainage of abscess, sequestrectomy/ saucerisation and arthrotomy	K/S/A/C	SH	Y	At the end of the small group discussion students should be able to describe procedure for abscess drainage. At the end of the small group discussion students should be able to demonstrate arthrotomy in mannequin.	02.06.2022	08.30 to 09.30am

Topic : Skeletal Tuberculosis

Number of competencies : (01)

Number of procedures that require certification: (NIL)

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	Y	At the end of case discussion students should be able to describe clinical features of caries spine. At the end of case discussion students should be able to discuss management Tuberculosis in hip joint. At the end of case discussion students should be able to discuss Investigations of Tuberculosis in knee joint.	09.06.2022 & 16.06.2022	08.30 to 09.30am
-------	---	---	------	---	--	----------------------------	------------------

Topic : Rheumatoid arthritis and associated inflammatory disorders **Number of competencies : (01)** **Number of procedures that require certification : (Nil)**

Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
OR5.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of various inflammatory disorder of joints	K	K/KH	Y	1. At the end of the theory class the final year MBBS student should be able to enumerate the clinical features of rheumatoid arthritis 2. At the end of the theory class the final year MBBS student should be able to describe the criteria for diagnosing rheumatoid arthritis 3. At the end of the theory class the final year MBBS student should be able to differentiate between various types of inflammatory arthritis with 80% accuracy	23.06.2022	08.30 to 09.30am

Topic : Degenerative disorders **Number of competencies : (01)** **Number of procedures that require certification : (Nil)**

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	Y	1. At the end of the theory class the final year MBBS student should be able to list the clinical features of cervical spondylosis 2. At the end of the theory class the final year MBBS student should be able to diagnose a case of prolapsed intervertebral disc with 80% accuracy 3. At the end of the theory class the final year MBBS student should be able to enumerate the various causes of PID	30.06.2022	08.30 to 09.30am
-------	--	---	------	---	---	------------	------------------

Topic : Metabolic bone disorders **Number of competencies : (01)** **Number of procedures that require certification : (Nil)**

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	Y	1. At the end of the theory class the final year MBBS student should be able to diagnose a case of rickets with 80% accuracy 2. At the end of the theory class the final year MBBS student should be able to list the clinical features of rickets 3. At the end of the theory class the final year MBBS student should be able to describe the causes of osteoporosis	07.07.2022	08.30 to 09.30am
-------	--	---	------	---	--	------------	------------------

Topic : Poliomyelitis **Number of competencies : (01)** **Number of procedures that require certification : (Nil)**

OR8.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management a patient with Post Polio Residual Paralysis	K	K/KH	Y	1. At the end of the theory class the final year MBBS student should be able to describe the aetiopathogenesis of Post Polio Residual Paralysis 2. At the end of the theory class the final year MBBS student should be able to assess the degree of post polio residual paralysis with 80% accuracy 3. At the end of the theory class the final year MBBS student should be able to list the various management modalities of post polio residual paralysis	14.07.2022	08.30 to 09.30am
-------	---	---	------	---	--	------------	------------------

Topic : Cerebral Palsy **Number of competencies : (01)** **Number of procedures that require certification : (Nil)**

Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
OR9.1	Describe and discuss the aetiopathogenesis, clinical features, assessment and principles of management of Cerebral palsy patient	K	K/KH	Y	1. At the end of the theory class the final year MBBS student should be able to list the clinical features of cerebral palsy 2. At the end of the theory class the final year MBBS student should be able to assess the disability due to cerebral palsy with 80% accuracy 3. At the end of the theory class the final year MBBS student should be able to describe the management options of cerebral palsy	14.07.2022	08.30 to 09.30am

Topic : Bone Tumors **Number of competencies : (01)** **Number of procedures that require certification : (Nil)**

OR13.1	Participate in a team for procedures in patients and demonstrating the ability to perform on mannequins / simulated patients in the following:	S/A	KH / SH	Y	<p>1. At the end of the clinical class the final year MBBS student should be able to apply a below elbow slab for distal radius fractures</p> <p>2. At the end of the clinical class the final year MBBS student should be able to apply below knee slab for ankle and foot fractures</p> <p>3. At the end of the clinical class the final year MBBS student should be able to demonstrate application of Thomas splint for femur fractures</p>	25.08.2022	08.30 to 09.30am
	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							
OR13.2	Participate as a member in team for Resuscitation of Polytrauma victim by doing all of the following :	S/A	KH / SH	Y	<p>1. At the end of the ortho posting the CRRI student should be able to secure a i.v line in a haemodynamically unstable patient with 90% accuracy</p> <p>2. At the end of the ortho posting the CRRI student should be able to demonstrate bladder catheterization with 100% accuracy</p> <p>3. At the end of the ortho posting the CRRI student should be able to assist in endotracheal intubation of a polytrauma patient</p>	07.01.2023	08.30 to 09.30am
	(a) I.V. access central - peripheral						
	(b) Bladder catheterization						
	(c) Endotracheal intubation						
	(d) Splintage						
Topic : Counselling Skills		Number of competencies : (03)			Number of proce		
OR14.1	Demonstrate the ability to counsel patients regarding prognosis in patients with various orthopedic illnesses like	K/S/A/C	KH / SH	Y	1. At the end of the ortho posting the CRRI student should be able to counsel fracture patients with disabilities, regarding prognosis		

	<p>a. fractures with disabilities</p> <p>b. fractures that require prolonged bed stay</p> <p>c. bone tumours</p> <p>d. congenital disabilities</p>				<p>2. At the end of the ortho posting the CRRI student should be able to counsel patients with osteosarcoma of femur regarding the prognosis of limb salvage surgery</p> <p>3. At the end of the ortho posting the CRRI student should be able to counsel patients with neglected CTEV regarding the prognosis of dwyer's osteotomy surgery</p>	04.02.2023	08.30 to 09.30am
OR14.2	Demonstrate the ability to counsel patients to obtain consent for various orthopedic procedures like limp amputation, permanent fixations etc..	K/S/A/C	KH / SH	Y	<p>1. At the end of the ortho posting the CRRI student should be able to obtain consent from a patient for ORIF with plating of both bone fracture of forearm</p> <p>2. At the end of the ortho posting the CRRI student should be able to counsel a patient with crush injury of a limb regarding amputation surgery</p> <p>3. At the end of the ortho posting the CRRI student should be able to obtain consent for total knee replacement in patient with osteoarthritis of knee joint</p>	18.02.2023	08.30 to 09.30am
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	Y	<p>1. At the end of the ortho posting the CRRI student should be able to convince a patient, with high grade osteosarcoma with metastasis, for referral to a higher center</p> <p>2. At the end of the ortho posting the CRRI student should be able to convince a terminally ill patient for referral to a higher centre</p>	04.03.2023	08.30 to 09.30am

	<p>Column C: K- Knowledge, S – Skill, A - Attitude / professionalism, C- Communication. Column D: K – Knows, KH - Knows How, SH - Shows how, P- performs independently, Column F: DOAP session – Demonstrate, Observe, Assess, Perform. Column H: If entry is P: indicate how many procedures must be done independently for certification/ graduation</p>					
--	--	--	--	--	--	--

Integration

Human Anatomy

Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
AN2.4	Describe various types of cartilage with its structure & distribution in body	K	KH	Y	1. At the end of the theory class the first year MBBS student should be able to list the various types of cartilages in our body 2. At the end of the theory class the first year MBBS student should be able to describe the structure of articular cartilage	18.03.2023	08.30 to 09.30am
AN2.5	Describe various joints with subtypes and examples	K	KH	Y	1. At the end of the theory class the first year MBBS student should be able to list the various types of joints in our body 2. At the end of the theory class the first year MBBS student should be able to describe a hinge joint with an example	01.04.2023	08.30 to 09.30am
AN8.4	Demonstrate important muscle attachment on the given bone	K/S	SH	Y	1. At the end of the theory class the first year MBBS student should be able to draw a diagram of femur depicting all muscle attachments 2. At the end of the theory class the first year MBBS student should be able to list the muscle insertions in the proximal humerus	15.04.2023	08.30 to 09.30am

AN8.6	Describe scaphoid fracture and explain the anatomical basis of avascular necrosis	K		N	1. At the end of the theory class the first year MBBS student should be able to draw a diagram of scaphoid depicting its blood supply 2. At the end of the theory class the first year MBBS student should be able to classify scaphoid fractures based on anatomical location of fracture line	29.04.2023	08.30 to 09.30am
AN10.12	Describe and demonstrate Shoulder joint for– type, articular surfaces, capsule, synovial membrane, ligaments, relations, movements, muscles involved, blood supply, nerve supply and applied anatomy	K/S	SH	Y		06.05.2023	08.30 to 09.30am
AN11.4	Describe the anatomical basis of Saturday night paralysis	K	KH	Y		20.05.2023	08.30 to 09.30am
AN17.2	Describe anatomical basis of complications of fracture neck of femur.	K	KH	N		03.06.2023	08.30 to 09.30am
AN17.3	Describe dislocation of hip joint and surgical hip replacement	K	KH	N		17.06.2023	08.30 to 09.30am
AN18.6	Describe knee joint injuries with its applied anatomy	K	KH	N		06.07.2023	08.30 to 09.30am
AN18.7	Explain anatomical basis of Osteoarthritis	K	KH	N		13.07.2023	08.30 to 09.30am
AN19.4	Explain the anatomical basis of rupture of calcaneal tendon	K	KH	N		20.07.2023	08.30 to 09.30am
AN19.6	Explain the anatomical basis of Flat foot & Club foot	K	KH	N		27.07.2023	08.30 to 09.30am
AN19.7	Explain the anatomical basis of Metatarsalgia & Plantar fasciitis	K	KH	N		03.08.2023	08.30 to 09.30am
AN50.4	Explain the anatomical basis of Scoliosis, Lordosis, Prolapsed disc, Spondylolisthesis & Spina bifida	K	KH	N		10.08.2023	08.30 to 09.30am

Pathology

Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
PA33.1	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications of osteomyelitis	K	KH	Y		17.08.2023	02.30 to 04.30pm
PA33.2	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications and metastases of bone tumors	K	KH	Y		24.08.2023	02.30 to 04.30pm
PA33.3	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications and metastases of soft tissue tumors	K	KH	Y		30.08.2023	02.30 to 04.30pm
PA33.4	Classify and describe the etiology, pathogenesis, manifestations, radiologic and morphologic features and complications of Paget's disease of the bone	K	KH	N		07.09.2023	02.30 to 04.30pm

Microbiology

MI4.2	Describe the etiopathogenesis, clinical course and discuss the laboratory diagnosis of bone & joint infections.	K	KH	Y		14.09.2023	02.30 to 04.30pm
-------	---	---	----	---	--	------------	------------------

Forensic Medicine & Toxicology

Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
FM3.7	Describe factors influencing infliction of injuries and healing, examination and certification of wounds and wound as a cause of death: Primary and Secondary.	K	K/KH	Y		21.09.2023	02.30 to 04.30pm
FM3.8	Mechanical injuries and wounds:	K	K/KH	Y		28.09.2023	02.30 to 04.30pm
	Describe and discuss different types of weapons including dangerous weapons and their examination.						
FM3.9	Firearm injuries:	K	K/KH	Y		05.10.2023	02.30 to 04.30pm
	Describe different types of firearms including structure and components. Along with description of ammunition propellant charge and mechanism of fire-arms, different types of cartridges and bullets and various terminology in relation of firearm – caliber, range, choking.						
FM3.10	Firearm injuries:	K	K/KH	Y		12.10.2023	02.30 to 04.30pm
	Describe and discuss wound ballistics-different types of firearm injuries, blast injuries and their interpretation, preservation and dispatch of trace evidences in cases of firearm and blast injuries, various tests related to confirmation of use of firearms						
FM3.11	Regional Injuries:	K	K/KH	Y		19.10.2023	02.30 to 04.30pm
	Describe and discuss regional injuries to head (Scalp wounds, fracture skull, intracranial haemorrhages, coup and contrecoup injuries), neck, chest, abdomen, limbs, genital organs, spinal cord and skeleton						
FM3.12	Regional Injuries	K	K/KH	Y		26.10.2023	02.30 to 04.30pm
	Describe and discuss injuries related to fall from height and vehicular injuries – Primary and Secondary impact, Secondary injuries, crush syndrome, railway spine.						

General Medicine

Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
IM7.5	Develop a systematic clinical approach to joint pain based on the pathophysiology	K	KH	Y		02.11.2023	02.30 to 04.30pm
IM7.6	Describe and discriminate acute, subacute and chronic causes of joint pain	K	KH	Y		09.11.2023	02.30 to 04.30pm

IM7.7	Discriminate, describe and discuss arthralgia from arthritis and mechanical from inflammatory causes of joint pain	K	KH	Y		16.11.2023	02.30 to 04.30pm
IM7.8	Discriminate, describe and discuss distinguishing articular from periarticular complaints	K	KH	Y		23.11.2023	02.30 to 04.30pm
IM7.9	Determine the potential causes of joint pain based on the presenting features of joint involvement	K	KH	Y		30.11.2023	02.30 to 04.30pm
IM7.10	Describe the common signs and symptoms of articular and periarticular diseases	K	KH	Y			02.30 to 04.30pm
IM7.13	Perform a systematic examination of all joints, muscle and skin that will establish the diagnosis and severity of disease	S	SH	Y			02.30 to 04.30pm
IM7.17	Enumerate the indications for arthrocentesis	K	K	Y			02.30 to 04.30pm
IM7.18	Enumerate the indications and interpret plain radiographs of joints	K	SH	Y			02.30 to 04.30pm
IM7.21	Select, prescribe and communicate appropriate medications for relief of joint pain	K/C	SH	Y			02.30 to 04.30pm
IM24.12	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of degenerative joint disease	K	KH	Y			02.30 to 04.30pm
IM24.13	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of falls in the elderly	K	KH	Y			
IM24.14	Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of common fractures in the elderly	K	KH	Y			
IM24.16	Describe and discuss the principles of physical and social rehabilitation, functional assessment, role of physiotherapy and occupational therapy in the management of disability in the elderly	K	KH	Y			

Physical Medicine & Rehabilitation

Number	COMPETENCY The student should be able to:	Domain K/S/A/C	Level K/KH/ SH/P	Core (Y/N)	Objectives	Date	Time
PM1.2	Define and describe disability, its cause, and magnitude, identification and prevention of disability	K	KH	Y			
PM1.3	Define and describe the methods to identify and prevent disability	K	KH	Y			
PM1.4	Enumerate the rights and entitlements of differently abled persons	K	K	Y			
PM4.1	Describe the common patterns, clinical features, investigations, diagnosis and treatment of common causes of arthritis	K	KH	Y			
PM4.3	Observe in a mannequin or equivalent the administration of an intra- articular injection	S	KH	N			
PM4.5	Demonstrate correct assessment of muscle strength and range of movements	S	SH	Y			
PM5.1	Enumerate the indications and describe the principles of amputation	K	KH	Y			

PM5.2	Describe the principles of early mobilization, evaluation of the residual limb, contralateral limb and the influence of co-morbidities	K	KH	Y			
PM5.3	Demonstrate the correct use of crutches in ambulation and postures to correct contractures and deformities	S	SH	Y			
PM5.4	Identify the correct prosthesis for common amputations	S	SH	Y			
PM6.3	Describe the principles of skin traction, serial casts and surgical treatment including contracture release, tendon transfer, osteotomies and arthrodesis.	K	KH	Y			
PM6.4	Describe the principles of orthosis for ambulation in PPRP	K	KH	Y			
PM7.1	Describe and discuss the clinical features, diagnostic work up, work up diagnosis and management of spinal cord injury	K	KH	Y			
PM7.2	Describe and demonstrate process of transfer, applications of collar restraints while maintaining airway and prevention of secondary injury in a mannequin/model	S	SH	Y			
PM7.3	Perform and demonstrate a correct neurological examination in a patient with spinal injury and determine the neurologic level of injury	S	SH	Y			
PM7.4	Assess bowel and bladder function and identify common patterns of bladder dysfunction	S	KH	Y			
PM7.5	Enumerate the indications and identify the common mobility aids and appliances, wheel chairs	S	S	Y			
PM7.7	Enumerate and describe common life threatening complications following SCI like Deep vein Thrombosis, Aspiration Pneumonia, Autonomic dysreflexia	K	KH	Y			
PM8.1	Describe the clinical features, evaluation, diagnosis and management of disability following traumatic brain injury	K	KH	Y			

R)

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
Modules that require certification: (NIL)				
Lecture with video, Small group discussion	Written/ Viva voce/ OSCE/ Simulation			General Surgery, Anaesthesiology
Lecture	Written/ Viva voce/ OSCE/ Simulation			General Surgery
Lecture	Written/ OSCE			General Surgery
Lecture	Written/ Assesment/ Viva voce			General Surgery
Lecture	Written/ Viva voce/ OSCE/ Simulation			
Simulation, DOAP session	OSCE/ Simulation			
Module : (Nil)				
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration

Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture, Small group discussion, Bed side clinic	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	

Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	

Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
Lecture	Written/ Viva voce/ OSCE		Human Anatomy	

Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
---------	--------------------------	--	---------------	--

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
------------------------------------	-----------------------------	----------------------------	----------------------	------------------------

fication : (Nil)

Lecture	Written/ Viva voce/ OSCE		Pathology, Microbiology	General surgery
---------	--------------------------	--	----------------------------	-----------------

Small group Discussion. DOAP session	Viva voce/ OSCE/ Skills assessment		-	
--------------------------------------	------------------------------------	--	---	--

DOAP session, Video demonstration	Viva voce/ OSCE/ Skills assessment			General Surgery
-----------------------------------	------------------------------------	--	--	-----------------

Lecture	Written/ Viva voce/ OSCE		Pathology	General surgery
---------	--------------------------	--	-----------	-----------------

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
Lecture	Written/ Viva voce/ OSCE			General Medicine

Lecture	Written/ Viva voce/ OSCE			
---------	--------------------------	--	--	--

Lecture	Written/ Viva voce/ OSCE			
---------	--------------------------	--	--	--

Lecture	Written/ Viva voce/ OSCE			
---------	--------------------------	--	--	--

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
Lecture	Written/ Viva voce/ OSCE			

Lecture	Written/ Viva voce/ OSCE		Pathology	General surgery, Radiotherapy
---------	--------------------------	--	-----------	----------------------------------

Lecture	Written/ Viva voce/ OSCE		Human Anatomy	General Medicine, General surgery
---------	--------------------------	--	---------------	--------------------------------------

ification : (Nil)

Lecture	Written/ Viva voce/ OSCE		Human Anatomy	
---------	--------------------------	--	---------------	--

ification : (Nil)

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
------------------------------------	-----------------------------	----------------------------	----------------------	------------------------

<p>Case discussion, Video assisted Lecture, Small group discussion, Teaching, Skill lab sessions</p>	<p>OSCE with Simulation based assessment</p>			
<p>Case discussion, Video assisted Lecture, Small group discussion, Teaching, Skill lab sessions</p>	<p>OSCE with Simulation based assessment</p>			<p>Anaesthesiology</p>
<p>Subjects that require certification : (Nil)</p>				
	<p>OSCE with Simulation based assessment</p>			<p>AETCOM</p>

Small group discussion				
Small group discussion	OSCE with Simulation based assessment			AETCOM
Small group discussion	OSCE with Simulation based assessment			AETCOM

--	--	--	--	--

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
Lecture	Written/ Viva voce		Orthopedics	
Lecture	Written/ Viva voce		Orthopedics	
Practical, DOAP session, Small group teaching	Viva voce/ Practicals		Orthopedics	

DOAP session	Viva voce		Orthopedics	
Practical, Lecture, Small group discussion, DOAP session	Written/ Viva voce/ Skills assessment		Orthopedics	
Practical, Lecture	Written/ Viva voce		Orthopedics	
Lecture	Written/ Viva voce		Orthopedics	
Lecture	Written/ Viva voce		Orthopedics	
Lecture	Written/ Viva voce		Orthopedics	
Lecture	Written/ Viva voce		Orthopedics	
Lecture	Written/ Viva voce		Orthopedics	
Lecture	Written/ Viva voce		Orthopedics	
Lecture	Written		Orthopedics	

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
Lecture, Small group discussion	Written/ Viva voce		Human Anatomy, Orthopedics	Microbiology
Lecture, Small group discussion	Written/ Viva voce		Orthopedics	
Lecture, Small group discussion	Written/ Viva voce		Orthopedics	
Lecture, Small group discussion	Written/ Viva voce		Orthopedics	

Lecture	Written/ Viva voce		Orthopedics	
---------	--------------------	--	-------------	--

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
Lecture, Small group discussion	Written/ Viva voce		Forensic medicine, Orthopaedics	
Lecture, Small group discussion	Written/ Viva voce		General Surgery, Orthopaedics	
Lecture, Small group discussion	Written/ Viva voce		General Surgery, Orthopaedics	
Lecture, Small group discussion, Bed side clinic DOAP session	Written/ Viva voce / OSCE		General Surgery, Orthopaedics	
Lecture, Small group discussion, Bed side clinic or autopsy, DOAP session	Written/ Viva voce / OSCE/ OSPE		General Surgery, Orthopaedics	
Lecture, Small group discussion, Bed side clinic or autopsy, DOAP session	Written/ Viva voce / OSCE/ OSPE		General Surgery, Orthopaedics	

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Lecture, Small group discussion	Written/ Viva voce			Orthopedics

Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Bed side clinic, DOAP session	Skill assessment			Orthopedics
small group discussion, Lecture	Written/ Viva voce			Orthopedics
Bed side clinic, small group discussion	Skill assessment/ Written		Radiodiagnosis	Orthopedics
DOAP session	Skill assessment/ Written		Pharmacology	Orthopedics
Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Lecture, Small group discussion	Written/ Viva voce			Orthopedics, Physical Medicine & Rehabilitation
Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Lecture, Small group discussion	Written/ Viva voce			Orthopedics, Physical Medicine & Rehabilitation

Suggested Teaching Learning method	Suggested Assessment method	Number required to certify	Vertical Integration	Horizontal Integration
Lecture, Small group discussion	Written/ Viva voce			General Medicine Orthopedics
Lecture, Small group discussion	Written/ Viva voce			General Medicine Orthopedics
Lecture, Small group discussion	Written/ Viva voce			General Medicine Orthopedics
Lecture	Written/ Viva voce			General Medicine Orthopedics
DOAP session	Skill assessment			Orthopedics
DOAP session, Bedside clinic	Skill assessment			General Medicine Orthopedics
Lecture	Written/ Viva voce			Orthopedics General Surgery

Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Lecture	Skill assessment			Orthopedics
DOAP session	Skill assessment / written			Orthopedics
Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Lecture, Small group discussion	Written/ Viva voce			Orthopedics
Lecture	Written/ Viva voce			Orthopedics
DOAP session, Small group discussion	Skill assessment			Orthopedics
Bed side clinic	Skill assessment			Orthopedics
Small group discussion	Written/ Viva voce			General Medicine, Orthopedics
DOAP session	Skill assessment/ Viva voce			Orthopedics
Lecture, Small group discussion	Written/ Viva voce			General Medicine, Orthopedics
Lecture, Small group discussion	Written / Viva voce			General Medicine, Orthopedics, General Surgery