

**Topic: Metabolic response to injury:-**

Number	Competency	Specific Learning Objective (K/S/A-c)	Domain K/S/A/C	Level (K/KH/SH/P)	Core (Y/N)	Suggested Teaching Learning Method	Suggested Assesment Method	Number Required to Certify P	Vertical Integration	Horigental Integration
OR 1.1	Describe and discuss the Principles of Pre-hospital care and Casualty management of a trauma victime including principles of triage	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>	K/S/A/C	KH	Y	Lecture with video, small group discussion	Written/ Viva Voce/OSCE/Simulation			General Surgery, Anaesthesiology
		1 Describe Principles pre Hospital care								
		2 Discuss organization taking care of polytrauma victim								
		3 Describe safety on scene & personal protective equipment								
		4 Describe initial actions of doctor & triage system								
		5 Describe Assessment & initial management of poly trauma victim								
		6 Discuss ATLS concept								
		7 Decribe initial assesment & managemet at hospital								
		8 Describe primary survey								
		9 Describe secondary survey								
OR1.2	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of shock	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>	K/S	K/KH	Y	Lecture	Written/ Viva Voce/OSCE/Simulation			General Surgery,
		1 define shock								
		2 enumerate types of shock								
		3 Describe hypovolemic shock in major poly trauma victims								
		4 Describes classes of shock								
		5 Describes aetiopathogenesis of shock								
		6 Describes clinical features of shock								
		7 describe management of hypovolemic shock								
OR1.3	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of soft tissue injuries	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>	K	KH/SH	Y	Lecture, small group discussion	Written/OSCE			General Surgery,
		1 Describe mechanism of soft tissue injury								
		2 Describe approach to a patient with shoft tissue injury								
		3 Describe classification of soft tissue injury								
		4 Describe clinical features of various soft tissue injury								
OR1.4	Describe and discuss the Principles of management of soft tissue injuries	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>	K	K/KH	Y	Lecture, small group discussion	Written/Assesment/Viva voice			General Surgery,
		1 Discuss managements of muscle strain								
		2 Discuss management of joint injury								
		3 Discuss management of muscle injuries								
OR1.5	Describe and discuss the aetiopathogenesis, clinical features, investigations, and principles of management of dislocation of major joints, shoulder, knee, hip	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>	K	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/Viva voice/ OSCE/ Simulation			
		1 Define dislocation								
		2 Enumerate type of dislocation								
OR1.6	participate as a member in the team for closed reduction of shoulder dislocation/ hip dislocation/ knee dislocation	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>	K/S/A/C	SH	Y	Simulation, DOAP session	OSCE/Simulation			
		1 Enumerate Common traumatic dislocation								
		2 Enumerate common congenital dislocation								
		3 describe clinical features of dislocation								
		4 Describes investigation of dislocation								
		5 Describes method of reduction of acute joint dislocation								
		6 Describe pathological dislocation								
		7 Describe neglected dislocation								
		8 Describe management of neglected joint dislocations								
		9 Enumrate complications of joint dislocations								

Topic: Fractures :-									
OR2.1	Describe and discuss the mechanism of injury, clinical features, investigations and plan management of fracture of clavicle	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K/S	KH/SH	Y	Lecture, Small group discussion, Bed side clinic	Written/ Viva Voce/OSCE/Simulation	Human Anatomy
		1	Describe the anatomy of clavicle especially ossification centre						
		2	Describe muscle attachment of clavicle						
		3	Describe the mechanism of injury of clavicle fracture						
		4	Describe the Clinical features of clavicle						
		5	Describe the investigations to diagnose clavicle fracture						
		6	Describe the management of clavicle fracture						
		7	Describe the complications of clavicle fracture						
OR2.2	Describe and discuss the mechanism of injury, clinical features, investigations and plan management of fractures of proximal humerus	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K	K/KH/SH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE	Human Anatomy
		1	Describe anatomy of proximal humerus						
		2	Describe muscle attachments to proximal humerus						
		3	Describe classifications of proximal humerus fracture						
		4	Describe mechanism of injury of proximal humerus fracture						
		5	Describe clinical features of proximal humerus fracture						
		6	Describe Investigations to Diagnose proximal humerus fracture						
		7	Describe management of proximal humerus fracture						
8	Describe complications of proximal humerus fracture								
OR2.3	Select, prescribe and communicate appropriate medications for relief of joint pain	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K	KH/SH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE	Human Anatomy
		1	How to select prescribe appropriate medications for relief of joint pain						
		2	How to communicate appropriate medications for relief of joint pain						
		3	various anatomical modalities of joint						
		4	various groups of pain medication						
5	Other methods of relief like massage								
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	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K/S	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE	Human Anatomy
		1	Describe anatomy & muscle attachments of humerus shaft						
		2	Describe mechanism of injury of humerus shaft fracture						
		3	Describe classification of humerus shaft fracture						
		4	Describe clinical fracture of humerus shaft fracture						
		5	Describe investigations of humerus shaft fracture						
		6	Describe management of humerus shaft fracture						
		7	Describe Complications of shaft humerus fracture						
		8	Describe Holesoin lewis fracture						
		9	Describe Clinical feature of radial nerve injury						
		10	Describe Clinical feature of median nerve injury						
		11	Describe clinical features of ulnar nerve injury						
		12	Describe Regional anatomy of distal humerus						
		13	Describe mechanism of injury of distal humerus fracture						
		14	Describe classification of injury of distal humerus fracture						
		15	Describe clinical features of injury of distal humerus fracture						
		16	Describe investigation of injury of distal humerus fracture						
		17	Describe complications of distal humerus fracture						
18	Describe supracondylar fracture in children								
OR2.5	Describe and discuss the aetiopathogenesis, clinical features, mechanism of injury, investigations & principles of management of fractures of both bones forearm and Galeazzi and monteggia injury	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE	Human Anatomy
		1	Define monteggia & galeazzi fracture						
		2	classify monteggia & galeazzi fracture						
		3	Describe mechanism of injury/ Galeazzi & monteggia fracture						
		4	Describe clinical features of Galeazzi & monteggia fracture						
		5	Describe investigations of Galeazzi & monteggia fracture						
		6	Describe management of Galeazzi & monteggia fracture						
7	Describe complications of Galeazzi & monteggia fracture								
OR2.6	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of distal radius	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K	KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE	Human Anatomy
		1	Anatomic consideration of distal radius						
		2	Describe classification of distal radius fracture						
		3	Describe mechanism of injury of distal radius fracture						
		4	Describe clinical features of distal radius fracture						
		5	Describe investigations of distal radius fracture						
		6	Describe management of distal radius fracture						
7	Describe complications of distal radius fracture								

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	<b>At the end of session the phase III Part II MBBS students must be able to:-</b> 1 Describe surgical anatomy of pelvis 2 Classification of pelvic fractures 3 Clinical assessment & acute management of pelvic injury 4 Describe imaging modalities in pelvic injuries/pelvic fracture 5 Describe clinical features of pelvic injuries 6 Describe complications of pelvic injuries	K	K/KH/SH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	
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	<b>At the end of session the phase III Part II MBBS students must be able to:-</b> 1 Discuss brief anatomy of spine 2 Describe pathophysiology with mechanism of injury 3 Describe cervical spine injuries its classification, mechanism of injury, clinical features, management & complications 4 Describe thoracic and lumbar spine injuries its classification, mechanism of injury, clinical features, management & complications 5 Describe management of traumatic paraplegic & quadriplegic	K	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	
OR2.9	Describe and discuss the mechanism of injury, clinical features, investigations and principle of management of acetabular fractures	<b>At the end of session the phase III Part II MBBS students must be able to:-</b> 1 Describe anatomy of acetabular fracture 2 Classification of acetabular fracture 3 Discuss Clinical feature of acetabular 4 Discuss imaging modalities of acetabular fracture 5 Describe emergency treatment & definitive treatment of acetabular fracture 6 Describe complications of acetabular fracture	K	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	
OR2.10	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of fractures of proximal femur	<b>At the end of session the phase III Part II MBBS students must be able to:-</b> 1 Discuss brief anatomy of proximal femur 2 Discuss blood supply of femoral head 3 Describes fracture neck of femur & trochanteric fracture 4 Discuss classification of femur & trochanteric fracture 5 Discuss mechanism of injury of femur & trochanteric fracture 6 Discuss clinical fracture of femur & trochanteric fracture 7 Discuss imaging modalities of femur and Trochanteric fracture 8 Discuss management modalities of femur & trochanteric fracture	K/S/A/C	KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	
OR2.11	Describe and discuss the aetiopathogenesis, mechanism of injury, clinical features, investigations and principles of management of (a) Fracture patella (b) Fracture distal femur © Fracture proximal tibia with special focus on neurovascular injury and compartment syndrome	<b>At the end of session the phase III Part II MBBS students must be able to:-</b> 1 Discuss anatomy of patella/Distal femur/ proximal tibia 2 Describes classification of fracture of patella/Distal femur/ proximal tibia 3 Describes mechanism of injury of patella/Distal femur/ proximal tibia 4 Describes clinical features of patella/Distal femur/ proximal tibia 5 Describes investigations of patella/Distal femur/ proximal tibia 6 Describes management of patella/ distal femur/proximal tibia 7 Describes complications of patella/ distal femur/ proximal tibia 8 Define compartment syndrome 9 Classification of compartment syndrome 10 Describes diagnosis of syndrome 11 Describes management of syndrome 12 Describe anatomy of common peroneal nerve its mechanism of injury, diagnosis, clinical features & management	K	K/LH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	
OR2.12	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of fracture shaft of femur in all age groups and recognition and management of fat embolism as a complication	<b>At the end of session the phase III Part II MBBS students must be able to:-</b> 1 Describes mechanism of injury of fracture shaft femur 2 Describe clinical features of fracture shaft femur 3 Describe aetiopathogenesis of fracture shaft femur 4 Describe management of fracture shaft femur in child & adult 5 Describe complications of fracture shaft femur 6 Describe clinical feature, diagnosis and management of fat embolism in fracture shaft of femur	K	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	

<b>OR2.13</b>	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of : (a) Fracture both bones leg (b) Calcaneus (C) Small bones of foot	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	
		1	Describes MOI of fracture both bone leg/calcaneus/ talus & metatarsals								
		2	Describes clinical features of fracture both bone leg/calcaneus/ talus & metatarsals								
		3	Describes mechanism fracture both bone leg/calcaneus/ talus & metatarsal								
		4	Describe imaging modalities in fracture both bone leg/calcaneus/ talus & metatarsal								
		5	Describes complications fracture both bone leg/calcaneus/ talus & metatarsals								
<b>OR2.14</b>	Describe and discuss the aetiopathogenesis, clinical features, investigation and principles of management of ankle fractures	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K/S/C	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	
		1	Discuss Brief anatomy of ankle joint								
		2	Discuss mechanism of injury of ankle fracture								
		3	Classify ankle fracture								
		4	Describe clinical features ankle fracture								
		5	Describe aetiopathogenesis of ankle fracture								
			Describe imaging modalities in ankle fracture								
		6	Describes management of ankle fracture								
7	Describes complications of ankle fracture										
<b>OR2.15</b>	Plan and interpret the investigations of diagnose complications of fractures like malunion, non-union, infection, compartment syndrome	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K/S/C	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	
		1	Define malunion / nonunion								
		2	Investigation to diagnosis malunion/nonunion/infection & compartmental syndrome								
		3	management of malunion / nonunion / infection & compartmental syndrome								
<b>OR2.16</b>	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	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K	K/KH	Y	Lecture, small group discussion, Bed side clinic	Written/ Viva Voce/OSCE		Human Anatomy	
		1	Define open fracture								
		2	Describes classification of open fractures								
		3	Discuss clinical fracture of open fractures								
		4	Discuss Investigation for open fracture								
		5	Discuss management of open fracture								
<b>Topic: Musculoskeletal infection:-</b>											
<b>OR3.1</b>	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) Skeletan Tuberculosis	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K/S	K/KH/SH	Y	Lecture , Small group discussion, Video assisted lecture	Written/Viva Voce/OSCE		Pathology Meicrobiology	General Surgery
		1	Define acute osteomyelitis/subacute osteomyelitis / acute arthritis / septic arthritis/ tuberculosis								
		2	classification of acute osteomyelitis/subacute osteomyelitis / acute arthritis / septic arthritis/ tuberculosis								
		3	echopathology of acute osteomyelitis/subacute osteomyelitis / acute arthritis / septic arthritis/ tuberculosis								
		4	clinical features of acute osteomyelitis/subacute osteomyelitis / acute arthritis / septic arthritis/ tuberculosis								
		5	investigations of acute osteomyelitis/subacute osteomyelitis / acute arthritis / septic arthritis/ tuberculosis								
		6	management of acute osteomyelitis/subacute osteomyelitis / acute arthritis / septic arthritis/ tuberculosis								
<b>OR3.2</b>	Participate as a member in team for aspiration joints under supervision	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K/S/A/C	SH	Y	Small group Discussion, DOAP Session	Viva Voce/PSCE/Skill Assessment			
		1	How to aspirate joint								
		2	a septic technique								
		3	Sample collection								
		4	Causes of joint swelling								
		5	Type of aspiratic fluid like inflammatory/infection								
<b>OR3.3</b>	Participate as a member in team for procedures like drainage of abscess, sequestrectomy/ saucerisation and arthrotomy	<b>At the end of session the phase III Part II MBBS students must be able to:-</b>		K/S/A/C	SH	Y	DOAP session, video demonstration	Viva Voce/PSCE/Skill Assessment			General Surgery
		1	How to drain abscess - basic principles								
		2	Causes of infection of joint								
		3	a septic technique								
		4	medication								
		5	Post operative advice								

Topic: Skeletal Tuberculosis :-		At the end of session the phase III Part II MBBS students must be able to:-		K	K/KH	Y	Lecture, Small group discussion, Case discussion	Written/viva voce/OSCE		Pathology	General Surgery
SU 4.1	Describe and discuss the clinical features, investigation and principles of management of Tuberculosis affecting major joints (Hip, Knee) including cold abscess and caries spine	At the end of session the phase III Part II MBBS students must be able to:-		K	K/KH	Y	Lecture, Small group discussion, Case discussion	Written/viva voce/OSCE		Pathology	General Surgery
		1	Describes pathology of skeletal Tuberculosis								
		2	Describe clinical fracture of T.B. Hip/ knee/potts spine								
		3	Describe classification of T.B. Hip/ knee/potts spine								
		4	Describes investigative modalities of T.B. Hip/ knee/potts spine								
		5	Describes management of T.B. Hip/ knee/potts spine								
		6	Short note on management of cold abscess								
Topic:- Rheumatoid Arthritis and associated inflammatory disorders											
OR5.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of various inflammatory disorder of joints	At the end of session the phase III Part II MBBS students must be able to:-		K	K/KH	Y	Lecture, Small group discussion, Bedside clinic	Written/Viva voce/OSCE			General Surgery
		1	Describe Aetiopathogenesis of rheumatoid arthritis/ ankylosing spondylitis/ reiters syndrome/psoriatic arthritis								
		2	Describe clinical features of rheumatoid arthritis/ ankylosing spondylitis/ reiters syndrome/psoriatic arthritis								
		3	Describe imaging modalities of rheumatoid arthritis/ ankylosing spondylitis/ reiters syndrome/psoriatic arthritis								
		4	Describe investigations of rheumatoid arthritis/ ankylosing spondylitis/ reiters syndrome/psoriatic arthritis								
		5	Describe diagnostic criteria of rheumatoid arthritis/ ankylosing spondylitis/ reiters syndrome/psoriatic arthritis								
		6	Describe management of rheumatoid arthritis/ ankylosing spondylitis/ reiters syndrome/psoriatic arthritis								
Topic:- Degenerative disorders											
OR6.1	Describe and discuss the clinical features, investigations and principles of management of degenerative condition of spine ( Cervical Spondylosis, Lumbar Spondylosis, PID)	At the end of session the phase III Part II MBBS students must be able to:-		K	K/KH	Y	Lecture, Small group discussion, Case discussion	Written/viva voce/OSCE			
		1	Define Cervical spondylosis/ lumbar spondylosis/ inter vertebral disc prolapse								
		2	define aetiopathogenesis of spondylosis/ lumbar spondylosis/ inter vertebral disc prolapse								
		3	Describe clinical features of spondylosis/ lumbar spondylosis/ inter vertebral disc prolapse								
		4	Describe imaging modalities of spondylosis/ lumbar spondylosis/ inter vertebral disc prolapse								
		5	Describe differential diagnosis of spondylosis/ lumbar spondylosis/ inter vertebral disc prolapse								
		6	Describe management of spondylosis/ lumbar spondylosis/ inter vertebral disc prolapse								
Topic:- Metabolic bone disorders											
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	At the end of session the phase III Part II MBBS students must be able to:-		K	K/KH	Y	Lecture, Small group discussion, Case discussion	Written/viva voce/OSCE			
		1	Describe bone structure & bone physiology								
		2	Describe & define osteoporosis/ Osteomalacia/rickets/paget's disease								
		3	Classify osteoporosis/ Osteomalacia/rickets/paget's disease								
		4	Describes clinical features of osteoporosis/ Osteomalacia /rickets /paget's disease								
		5	Discuss investigation for diagnosis of osteoporosis/ Osteomalacia /rickets / paget's disease								
		6	Discuss prevention & treatment of osteoporosis/ Osteomalacia /rickets / paget's disease								

Topic:- Poliomyelitis												
OR8.1	Describe and discuss the aetiopathogenesis, Clinical features, assement and principles of management a patient with Post Polio Residual Paralysis	At the end of session the phase III Part II MBBS students must be able to:-				K	K/KH	Y	Lecture, Small group discussion, Case discussion	Written/viva voce/OSCE		
		1	Define poliomyelitis									
		2	Describe aetiopathogenesis of polio mylyetis									
		3	clinical features of child/adult with deformities in polio									
		4	Assessment & management of patient with post polio residual paralysis									
Topic:- Cerebral Palsy												
OR9.1	Describe and discuss the aetiopathogenesis, clinical features, assement and principles of management of Cerebral palsy patient	At the end of session the phase III Part II MBBS students must be able to:-				K	K/KH	Y	Lecture, Small group Discussion	Written/Viva Voce/OSCE		
		1	Define cerebral palsy									
		2	Classifiaction of cerebral palsy									
		3	Diagnosis of cerebral palsy in early/ Late childhood									
		4	Assesment of child with cerebral palsy									
5	management of child with cerebral palsy											
Topic:- Bone Tumors												
OR10.1	Describe and discuss the aetiopathogenesis, clinical features, investigations and principles of management of benign and malignant bone tumours and pathological fractures	At the end of session the phase III Part II MBBS students must be able to:-				K	K/KH	Y	Lecture, Small group discussion, Video assisted interactive lecture	Written/viva voce/OSCE	Pathology	General Surger, Radiotherapy
		1	Classify benign/ malignant bone tumours									
		2	Discuss clinical features of benign/ malignant bone tumours									
		3	Disscuss imaging modalities of benign/ malignant bone tumours									
		4	Disscuss biopsy & differential diagnosis for benign/ malignant bone tumours									
		5	Disscuss staging of benign/ malignant bone tumours									
		6	Describe management of benign / malignant tumours									
7	Describes clinical features, diagnosis & management of pathological fracture											
Topic:- Peripheral nerve injuries												
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 NErvers	At the end of session the phase III Part II MBBS students must be able to:-				K	K/H	Y	Lecture, Small group discussion, Case discussion	Written/viva voce/OSCE	Human Anatomy	General Medicine, General Surgery
		1	Describe nerve structure & function									
		2	Describe aetiopathogenesis of peripheral nerve injuries									
		3	Describe clinical features in radial/ulnar/median/lateral papliteal/ sciatic nerve injury									
		4	Describe classification in radial/ulnar/median/lateral papliteal/ sciatic nerve injury									
		5	Describe investigation in radial/ulnar/median/lateral papliteal/ sciatic nerve injury									
6	Describe management in radial/ulnar/median/lateral papliteal/ sciatic nerve injury											
Topic:- Congenital lesions												
OR12.1	Describe and discuss the clinical features, investigations and principles of management of Congenital and acquires malformations and deformilties of: a) limbs and spine - Scoliosis and spinal bifida b) Congenital dislocation of Hip, Torticolllis, c) Congenital talipes equino varus	At the end of session the phase III Part II MBBS students must be able to:-				K	KH	Y	Lecture, Small group discussion	Written/Viva Voce/OSCE	Human Anatomy	
		1	Describe pathophysiology in spinabifida/ scoliosis									
		2	Describe clinical features in spinabifida/ scoliosis									
		3	Describe imaging Modalities in spinabifida/ scoliosis									
		4	Describe assessment of patient in spinabifida/ scoliosis									
		5	Describe management in spinabifida/ scoliosis									
		6	Describe aetiopathogenesis in CDH/torticolllis/ CTEV									
		7	Describe clinical features in CDH/torticolllis/ CTEV									
		8	Describe imaging modalities in CDH/torticolllis/ CTEV									
		9	Describe clinical assessment of patient in CDH/torticolllis/ CTEV									
10	Describe management in in CDH/torticolllis/ CTEV											

Topic:- Procedural Skills																	
OR13.1	Participate in a team for procedures in patients and demonstrating the ability to perform on manequins/ simulated patients in the following : i. Above elbow plaster ii. Below knee plaster iii. Above knee plaster iv. Thomas splint v. Splitting for long bone fractures Strapping for shoulder and clavicle trauma	At the end of session the phase III Part II MBBS students must be able to:-								S/A	KH/SH	Y	Case discussion, video assisted Lecture, Small group discussion, Teaching, Skill lab sessions	OSCE with Simulation based assessment			
		1	How to apply above elbow plaster														
		2	How to apply above knee plaster														
		3	How to apply below knee plaster														
		4	What is thomas splint														
		5	how to splint long bone														
		6	how to strap shoulder & clavicle trauma														
		7															
		8															
		9															
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	At the end of session the phase III Part II MBBS students must be able to:-								S/A	KH/SH	Y	Case discussion, video assisted Lecture, Small group discussion, Teaching, Skill lab sessions	OSCE with Simulation based assessment			Anaesthesiology
		1	How to put IV line central/ peripheral														
		2	how to do bladder catheterisation														
		3	How to do endo tracheal intubation														
		4	How to splint														
		5	What is ABCDE of trauma														
Topic:- Counselling Skills																	
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 tumors d. congenital disabilities	At the end of session the phase III Part II MBBS students must be able to:-								K/S/A/C	KH/SH	Y	Case discussion, video assisted Lecture, Small group discussion, Teaching, Skill lab sessions	OSCE with Simulation based assessment			AETCOM
		1	How to counsel patients regarding prognosis of fracture with disability like supracondylar with intercondylar femur														
		2	How to counsel patients for fracture that require prolonged bed stay like traumatic paraplegia following fracture spine														
		3	How to counsel patients regarding prognosis of bone tumors														
		4	How to counsel patients regarding prognosis related to congenital disabilities														
		5	Awareness regarding disease which have poor prognosis														
OR14.2	Demonstrate the ability to counsel patients to obtain consent for various orthopaedic procedures like limb amputation, permanent fixations etc.	At the end of session the phase III Part II MBBS students must be able to:-								K/S/A/C	KH/SH	Y	Case discussion, video assisted Lecture, Small group discussion, Teaching, Skill lab sessions	OSCE with Simulation based assessment			AETCOM
		1	How to take consent for limb amputation														
		2	How to take consent for permanent fixation like arthrodesis														
		3	How many consents are there														
		4	Who should sign consent														
5	Timing of consent																
OR14.3	Demonstrate the ability to convince the patient for referral to a higher centre in various orthopaedic illnesses, based on the detection of warning signals and need for sophisticated management	At the end of session the phase III Part II MBBS students must be able to:-								K/S/A/C	KH/SH	Y	Case discussion, video assisted Lecture, Small group discussion, Teaching, Skill lab sessions	OSCE with Simulation based assessment			AETCOM
		1	How to convince the patient for referral to higher centre														
		2	How to know about warning signs related to patient														
		3	How to access law & order problem														
4	How to access need for sophisticated																