

Allied Surgical Specialties

Orthopedic Surgery | Neurosurgery | Urology | Pediatric Surgery | Anaesthesia

MODULE	SUBJECT	TOPIC	LEARNING OBJECTIVES (LOS)	Hrs	MODE OF TEACHING (MITs)	ASSESSMENT
ORTHOPEDIC SURGERY						
Musculoskeletal System-III (Final Year)	Orthopedics	Surgical management of disabling Rheumatoid Arthritis	Explain the surgical interventions and their indications in the management of disabling Rheumatoid arthritis • Rheumatic hand disorders • Rheumatic foot disorders	1	Bedside clinical teaching, Lecture, Case discussion	MCQ OSCE
—	Orthopedics	Tuberculous / Septic Arthritis	Discuss the etiology, risk factors, Clinical presentation, Diagnostic approach, and management of tuberculous and septic hip and knee arthritis.	1	Lecture, Case demonstration	MCQ
—	Orthopedics	Deformities and congenital disorders	Classify common deformities and congenital disorders of bones Discuss the pathophysiology, clinical features and complications of Achondroplasia	1	Lecture, PBL	MCQ
—	Orthopedics	Structural spine abnormalities	Discuss the pathophysiology, clinical features and complications of Osteogenesis imperfecta Discuss the pathophysiology, clinical features and complications of Paget's disease Classify and explain structural spine abnormalities in terms of clinical features, complications, and management	2	Lecture, Bedside teaching	MCQ
—	Orthopedics	Osteomyelitis Caries Spine	Explain the etiology, clinical presentation, investigations,	2	Lecture, Case-based discussion	MCQ

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—	Orthopedics	Poliomyelitis	and medical and surgical management of Osteomyelitis Explain the etiology, clinical presentation, investigations, and medical and surgical management of Caries spine Explain the Orthopedic complications of poliomyelitis their Diagnostic workup and Management	1	Lecture, Bedside teaching	MCQ
Neurosciences-III (Final Year)	Orthopedics	Diseases of vertebrae and intervertebral discs	Classify diseases of the vertebrae and intervertebral discs, their clinical features, investigations, complications, and management	1	Lecture, Bedside teaching	MCQ
—	Orthopedics	Kyphoscoliosis	Discuss the etiology, clinical features, complications, and management of Kyphoscoliosis	1	Lecture	MCQ
Musculoskeletal System-II (3rd Year)	Orthopedics	Fractures Bone tumors Bone and Joint Infections Application of Cast Soft Tissue Injuries, Spinal Injuries	Describe and illustrate types of fracture, fracture patterns, displacement and angulation of fractures in children and adults Explain open fractures Discuss the basic principles of wound debridement. To recognize, investigate and describe the radiological features of common benign and malignant Bone Tumours. Describe the aetiology, pathology, clinical presentation and investigations of Bone and Joint infections Explain the emergency treatment of an injured limb. Explain emergency immobilization techniques of the Neck, Spinal column and limbs. Describe and discuss the basic principles pertaining to application of a cast, the complications of cast application.	5	Lecture, Skills lab, Bedside teaching, PBL	Written (Theory), OSPE/OSCE

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			Discuss the principles of a three-point pressure system in a cast. Describe the common ligamentous and tendon injuries and advise appropriate management Recognize common Spinal fractures, and provide appropriate initial management			
Neurosciences-II (4th Year)	Orthopedics	Management of traumatic paraplegia	Describe the general management of a patient with traumatic paraplegia	1	Lecture, Bedside teaching	MCQ, SEQ
NEUROSURGERY						
Neurosciences-II (4th Year)	Neurosurgery	Management	Describe the neurosurgical management of stroke and Subarachnoid hemorrhage	1	Lecture, Bedside clinical teaching	MCQ, SEQ, OSCE
—	Neurosurgery	Traumatic paraplegia Spinal Tumor	Describe the general management of a patient with traumatic paraplegia Describe the types, clinical features and surgical management of spinal tumours	1	Lecture, Case-based discussion	MCQ, SEQ
Neurosciences-III (Final Year)	Neurosurgery	Intracranial space occupying lesions	Classify intracranial space occupying lesions (benign, malignant and infections) Discuss the clinical features, radiological findings and treatment of intracranial space occupying lesions	1	Lecture, Case-based discussion, CT/MRI review	MCQ, OSCE
—	Neurosurgery	Head Injury	Discuss the diagnostic workup and management for patients with Head Injury Counsel about the post-operative care of patients with head injuries and their families.	1	Lecture, Bedside teaching	MCQ
—	Neurosurgery	Syringomyelia	Describe Syringomyelia and Explain the onset of Syringomyelia Discuss the diagnostic work up and management for pts suspected of Syringomyelia.	1	Lecture, Bedside teaching, Case discussion	MCQ, OSCE

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UROLOGY						
Renal-II (4th Year)	Surgery / Urology	Renal transplant surgery	Enlist diagnostic indicators of renal transplant Describe pre-requisite for successful renal transplant Discuss post renal transplant care of patient Describe common complications of renal transplant surgery Enlist immunosuppressive drugs used in Renal transplant	1	Lecture, Bedside teaching, Skill demonstration	MCQ, SEQ, OSCE
Renal-II (4th Year)	Surgery / Urology	Kidney Stones	Enlist factors predisposing to specific stone types Discuss evaluation of stone formers Discuss clinical features and Diagnosis of renal stone Describe renal stone treatment options	1	Lecture, Bedside teaching, Skill demonstration	MCQ, SEQ, OSCE
Renal-II (4th Year)	Surgery / Urology	Renal trauma Pelvic Ureteric junction obstruction in adult (PUJO)	Describe Initial resuscitation of renal trauma patient Classify mechanism and grading of renal trauma Discuss clinical and radiological assessment of renal trauma. Discuss management plan of renal trauma. 178 Define PUJ obstruction. Enlist etiology (congenital and acquired causes). Describe clinical presentation of PUJO. Interpret Investigations (renal ultrasound, IVU (Intravenous urography), MAG-3 renography, retrograde pyelography). JUSTIFY Management PLAN options (Endopyelotomy, Pyeloplasty).	1	Lecture, Bedside teaching, Skill demonstration	MCQ, SEQ, OSCE
Renal-II (4th Year)	Surgery / Urology	Anomalies of renal fusion and ascent Renal Cell Carcinoma (RCC)	Describe various anomalies of renal tracts like Horseshoe kidney, Ectopic kidney, Renal	1	Lecture, Bedside teaching, Skill demonstration	MCQ, SEQ, OSCE

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			agenesis, Malrotated kidney, Urinary tract duplication. Describe clinical presentation and investigation of RCC. Enlist Treatment of localized RCC. Construct Management of metastatic RCC.			
Renal-II (4th Year)	Surgery / Urology	carcinoma of urinary bladder	Discuss clinical Presentation of bladder cancer. Describe diagnosis and clinical staging of bladder cancer. Construct management Plan of bladder cancer.	1	Lecture, Bedside teaching, Skill demonstration	MCQ, SEQ, OSCE
Renal-II (4th Year)	Surgery / Urology	Enlarged Prostate Carcinoma prostate	Define IPSS (International prostate symptoms scoring) for enlarged prostate. Describe watchful waiting for enlarged prostate. Enlist medical management of BPH. Minimal invasive management of BPH. Invasive surgical surgeries TURP (transurethral resection of prostate) Open prostatectomy Describe clinical presentation and management	1	Lecture, Bedside teaching, Skill demonstration	MCQ, SEQ, OSCE
Renal-II (4th Year)	Surgery / Urology	Urinary Incontinence	Define urinary incontinence Discuss urinary incontinence Classify urinary incontinence Discuss nocturnal enuresis Enlist causes and pathophysiology Describe evaluation of incontinence Enumerate Investigation of incontinence Describe conservative treatment options surgical options	1	Lecture, Bedside teaching, Skill demonstration	MCQ, SEQ, OSCE
Renal-II (4th Year)	Surgery / Urology	Urethral strictures Posterior urethral valve	Describe etiology, Presentation, investigation, and management of urethral stricture	1	Lecture, Bedside teaching, Skill demonstration	MCQ, SEQ, OSCE

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Renal (Final Year)	Urology	Male Infertility	Discuss clinical presentation and management of Posterior urethral valves (PUV) Discuss the diagnostic approach and management options for a male patient with infertility	1	Lecture, Case-based discussion	MCQ, OSCE
PEDIATRIC SURGERY						
Neurosciences-III (Final Year)	Pediatric Surgery	Congenital malformations - Spina Bifida/myelomeningocele	Explain the clinical features, investigations, and management of a pa child with Spina Bifida/Myelomeningocele Discuss and counsel the pts regarding the changes in the lifestyle of patients with congenital malformations	1	Lecture, Case-based discussion, Bedside teaching	MCQ, OSCE
Renal-III (Final Year)	Pediatric Surgery	Hypospadias	Discuss the types, complications, and management of a child with Hypospadias	1	Lecture, Video demonstration, Case discussion	MCQ
GIT (Final Year)	Pediatric Surgery	Hirschsprung's disease	Explain the etiology, clinical features, investigations, treatment of a child with Hirschsprung's disease.	1	Lecture, Bedside teaching, Case-based discussion	MCQ, OSCE
ANAESTHESIA						
Neurosciences-II (4th Year)	Anaesthesia	Types and protocols of anaesthesia; anaesthetic drugs	Describe the types and protocols of anaesthesia and explain the drugs used as anaesthetics (general, regional, local anaesthesia; induction agents, volatile agents, muscle relaxants)	4	Lecture, Pharmacology practical, Demonstration in OT/skills lab	MCQ, SEQ, OSPE