

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

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	General Orthopedics 1. Clinical examination of an orthopedic patient, investigations, radiological and imaging techniques (salient features) 2. Deformities, acquired deformities, causes and principles of management, splinting 3. Traction: procedures, materials 4. Preventive orthopedics 5. Geriatric orthopedics		
2	Congenital disorders 1. Torticollis , wry neck, kyphosis, lordosis, scoliosis, spina bifida, myelomeningocele , congenital dislocation of hip, congenital genu recurvatum, talipesequinovarus 2. Elevation of scapula, madelung's deformity, coxa vara 3. Endocranial dystosis, superior radio-ulna dysostosis, sternocleido mastoid tumor		
3	Infection of bones & joints 1. Osteomyelitis (acute and chronic), Brody's abscess as a complication of open fracture 2. Skeletal tuberculosis, principles of treatment, T.B. of shoulder, elbow and wrist T.B. of hip, knee ankle, and foot 3. Dactylitis, caries rib		
4	Arthritis 1. Acute pyogenic arthritis, septic arthritis of infancy, small pox arthritis, Syphilic infection of joint, Rheumatoid arthritis, osteoarthritis		
5	Bone tumors 1. Classification, true bone tumors- osteosarcoma, giant cell tumor, Ewing's sarcoma, chondroblastoma, chondrosarcoma, fibrosarcoma, lymphoma of bone, plasmacytoma		

	2. Bone metastasis: synovial sarcoma, hemangioma of bone, adamantinoma of long bones and chondroma 3. Tumor like lesions: osteoid osteoma, benign osteoblastoma, non osteogenic fibroma, osteoma, osteochondroma and enchondroma		
6	Neurological and Muscular disorders 1. Definition, causes, clinical feature, complications, management (Multidisciplinary approach) medical and surgical of the following conditions: Cerebral palsy, Poliomyelitis, Leprosy 2. Muscular dystrophy – types and treatment 3. Injuries to plexus and nerves: Radial, Ulnar, Median, Brachial plexus, Sciatic and Lateral Popliteal		
7	Regional conditions of Spine and Lower limb 1. Back: Kyphosis, Scoliosis, Spondylolisthesis, Lumbosacral strain, intervertebral disc prolapse, fibrositis back, Lumbar canal stenosis, sacro iliac strain, spondylosis, spondylolysis 2. Hip: Slipped capital femoral epiphysis, idiopathic chondrolysis of hip 3. Knee: Genu valgum, genu varum, tibia varum, genu recurvatum, quadriceps fibrosis, recurrent dislocation of patella, bursa around the knee, loose bodies in the knee, chondromalacia patella 4. Foot: Painful heel, Plantar fascitis, Posterior heel pain, flat foot, foot strain, pain in forefoot, Hallux valgus, anterior metatarsalgia		
8	Regional conditions of Neck and Upper limb 1. Neck: Cervical spondylosis, intervertebral disc prolapse, Cervical rib, torticollis, Brachialgia 2. Shoulder: Supraspinatus tendinitis, calcification, rupture of rotator cuff, periarthritis shoulder, deltoid fibrosis, subarachnoid bursitis, Bicipital tendinitis 3. Elbow: Tennis elbow, Golfers elbow, recurrent slipping of ulnar nerve, cubitusvarus and valgus 4. Wrist and Hand: Ganglion, De quervains disease, trigger finger, trigger thumb, carpal tunnel syndrome and Dupuytren's contracture 5. Miscellaneous: metabolic disease, rickets, osteomalacia, osteoporosis, parathyroid osteodystrophy, scurvy etc.		
Total Hours		60	