

Third B.O.Th. Year

303. ORTHOPEDICS:

Total hours: 95(Theory: 70 + Clinical: 25)

Theory : 100 marks(Final Exam :70 marks + Internal assessment :30)

Practical :100 marks (Final Exam :70 marks + Internal assessment :30)

Course Objectives

- 1) Describe the pathology clinical manifestations and the management of trauma of bones, joints and soft tissues of upper and lower extremities including spine. Describe the classification of fracture, stages of fracture healing, various types of management and their complications of upper and lower limbs bones.
- 2) Explain various types of peripheral nerve injuries their clinical signs and surgical conservative management in detail including brachial plexus and lumbosacral plexus injuries.
- 3) Describe various deformities of spine and extremities, their clinical features, investigations and conservative, surgical management with postoperative care.
- 4) Describe congenital conditions such as congenital dislocation of hip, CTEV and Perthes' disease and describe its conservative and surgical management.
- 5) Explain reconstructive surgeries carried out in neuromuscular involvement for successful rehabilitation and their postoperative. Management (CP and Post polio deformities including limb lengthening surgeries).
- 6) Enumerate infections and tumors of musculoskeletal system and explain their etiology clinical features surgical procedures and postoperative management.
- 7) Explain various etiological factors of backache, its clinical features, and conservative and surgical management.
- 8) Enumerate common sports injuries; explain biomechanics, causes of these injuries and their management.
- 9) Explain classification of Arthritis, the immunological conditions affecting musculoskeletal system Metabolic Bone disorders like osteoporosis, osteomalacia, Rickets, osteoarthritis with their clinical features, conservative and surgical management including replacement arthroplasties.
- 10) To comprehend radiological examination, various techniques used in radiological examination and its use in diagnosis.

COURSE CONTENTS:

- 1) Pathology, clinical manifestations, management of trauma of the bones & soft tissue involving musculoskeletal system (limb and spinal trauma.)
Fractures — Classification, management complications of upper and lower limb bones.
- 2) Peripheral nerve injuries, BPI & management.
- 3) Deformities of spine, extremities and management
- 4) Congenital malformation & management.
- 5) Reconstructive surgeries for the rehabilitation of neuromuscular affection including limb lengthening.
- 6) Infections & tumors of the musculoskeletal system and management.
- 7) Backache — Surgical management
- 8) Sports injuries, biomechanics & management
- 9) Arthritis, rheumatic disease and Metabolic bone disease & their management
- 10) Radiological evaluation and diagnosis

BOOK RECOMMENDED:

- 1) Outline of orthopaedics by Adams
- 2) Orthopaedics by Dr. Maheswari
- 3) Orthopaedics by Dr. L.N. Vora
- 4) Outline of fractures by Adams.