CURRICULUM OF UNDERGRADUATE

(a) <u>KNOWLEDGE</u>:

The students shall be able to:

- 1. Explain the principles of recognition of bone injuries and dislocation;
- 2. apply suitable methods to detect and manage common infections of bones and joints.
- 3. Identify congenital skeletal anomalies and their referral for appropriate correction or rehabilitation.
- 4. Recognize metabolic bone diseases as seen in this country;
- 5. Explain etiogenesis, manifestations, diagnosis of neoplasm affecting bones;
- (b) <u>SKILLS</u>:

At the end of the course, the student shall be able to:

- 1. Detect sprains and Deliver first aid measures for common fractures and sprains and manage uncomplicated fractures of clavicle, colles's forearm, phallanges etc.;
- 2. Use techniques of splinting plaster, immobilisation etc.
- Manage common bone inspections, learn indications for sequestration, amputation and corrective measures for bone deformities;
- 4. Advise aspects of rehabilitation for pollo cerebral palsy and amputation.
- 5. Splinting (plaster slab) for the purpose of emergency splintage, definitive splintage and post operative splintage and application of thomas splint;
- 6. Mannual reduction of common fractures-phalangeal, metacarpel, metatarsal and colles's fractures;
- 7. Mannual reduction of common dislocations-interphalangeal, metacarpophalangeal, elbow and shoulder exdislocations.
- 8. Plaster cast application for undisplaced fractures of arm, forearm, leg and ankle;
- 9. Emergency care of muliple injury patient;
- 10. Precautions about transport and bed care of spinal cord injury patients.
- 11. Advise about prognosis of poliomyelitis, cerebral palsy, CTEV and CDH;
- 12. Advise about rehabilitation of emputees and mutilating traumatic and leprosy deformities of hand;
- 13. Drainage for acute osteomyelitis;

- 14. Sequestrectomy in chronic osteomyelitis;
- 15. Application of external fixations;
- 16. Internal fixations of fractures of long bones.

(c) <u>APPLICATION</u>:

Be able to perform certain orthopedic skills, provide sound advice of skeletal and related conditions at primary or secondary health care level.

(d) INTEGRATION:

Integration with anatomy, surgery, pathology, radiology and forensic medicine be done.

(e) ORTHOPEDICS:

- A. Didactic lectures-trauma.
- Introduction including definition of Various Terms; Scope of Subject; Brief History; Classification of Conditions and introduction to latest developments.
- 2. Bone and Joint Injuries-fractures; Dislocation and Sprains, Definitions; Terminology; Epiphyseal Injuries; Healing of Fractures.
- Principle of Management of Serve Trauma-Aims of Management and Life Saving Measures; Limb Saving Measures.
- Treatment of Fractures-Principles; Aims of Treatment; Operative Management and Rehabilitation and Prevention of Joint Stiffness; Compound Fractures (Open Fractures); Principles and Management.
- Complications of Fractures-(A) Injury To Blood Vessels (B) Injury To Nerves (C) Delayed Union; Nonunion (D) Myositis Ossificans (E) Avascular Necrosis (F) Budeck's Atrophy (G) F at Embolism.
- Joint Injuries and Soft Tissue Injuries-Sprains; Ruptures of Ligaments and Dislocation; Traumatic Synivitis; Tendon Ruptures and Heamarthrosis.
- 7. Fractures of Upper Limb-Supracondylar Fractures of Humerus; Colies Fracture.
- 8. Fractures of Lower Limb-Fractures of Femoral Neck, Fractures of Ankle Joint and Ligament injuries.
- 9. Injuries of Spine-Cervical Spine, Dorsal and Dorsslumbar Spine; Paraplegia.
- 10. Injuries of the knee joint-ligament injuries; Meniscus Injuries and Internal Derangement.

- 11. Peripheral Nerve Injuries-Anatomy; Effects; Nerve Degeneration and Regeneration; Classification and Management.
- 12. Fracture-Clavicle, Forearm Bones, Femur, Tibia, Fibula.
- 13. Dislocation-Shoulder; Elbow and Hip; Habitual and Recurrent Dislocation of Shoulder and Patella.
- 14. Specific Nerve Injuries-Brachial Plexus; Radial Nerve; Median Nerve; Plexus Nerve; Sciatic Nerve; Thoracic Outlet Syndrome.
- B. Didactique Lectures-Non-Trauma:
- 1. Osteomyelitis-Acute; Chronic and Pyoartrosis.
- 2. Osteomyelitis Tuberculosis-Introduction; Pathology; Principles of Management.
- 3. Tuberculosis-Hip Joint and Knee Joint; Tuberculosis of Spine and Pott's Paraplegia.
- 4. Arthritis-Types and Classification; Rheumatoid Arthritis-Pathology; Diagnosis, Treatment.
- 5. Osteoarthritis-Pathology; Diagnosis and Management-Osteoarthritis of Hip and Knee.
- 6. Rickets-Osteomalacia; Hyperparathyfoidism; Genu Valga.
- 7. Poliomyelitis-Cerebral Palsy and Spina Bifida.
- 8. Spondylosis-Lumber and Prolapsed intervertebral Disc; Lumbar Spinal Canal Stenosis and Spondylollsthesis.
- 9. Cervical Spondylosis.
- 10. Perthes diseases and Epiphysitis-slipped upper femoral Epiphysis; Congenital Subluxation and Dislocation of Hip.
- 11. Congenital-Club Foot, Flat Foot.
- 12. Bone Tumours-Classification; General Principles of Management and Secondery Deposits in Bones; Amputation.
- 13. Tuberculosis-Compound Palmar Ganglion.
- 14. Still's Disease; Other Condition Related to Rheumatiod Arthritis.
- 15. Neuropathic Joint Shoulder Hand Syndrome; Tennis Elbow. Tunnel Syndrome, Trigger Finger;
- 16. Scoliosis.
- 17. Flat Foot-Painful Planter Fasciculities; Calcaneal Spur; Calcification at Tendoachilies Insertion.

- 18. Tractions-Splints (Bohler and Thomas); Application; Splints; Arthrodesis etc.
- 19. Plaster of Paris-Plaster Cast Application; General Principles.
- 20. Surgical Instruments-Pertaining to Bone Surgery and General Set only (Nospecialized Instruments).
- 21. Common Fractures and Demonstration of Common Clinical Problems.
- 22. Covering of Important and Common Topics From the Ones Listed in Clinical Term