SYLLABUS FOR DIPLOMA IN ORTHOPAEDICS

1. Basic Sciences related to Locomotor System
   i. Histology of bone, cartilage, muscles, collagen, Nerves
   ii. Physiology of bone, cartilage, muscles, collagen and Nerves

2. Surgical Pathology related to Bones, cartilage, Muscle, collagen and Nerves in various. Congenital affection, infections, Tumour and Tumour conditions a metabolic affection.

3. General principles of surgery and Traumatology
   i. Wound healing
   ii. Fracture healing
   iii. Rehabilitation after bone and joint injury
   iv. Systemic response to injury
   v. Fracture and dislocation in all bones its management including complications.
   vi. Injury to chest, abdomen and head
   vii. Polyfrauma
   viii. Fractures in children

4. Orthopaedics diseases
   i. Metabolic Bone Disease
   ii. Bone infections – Acute and chronic
   iii. Congenital and development Deformities - upper extremity
   - Lower extremity
   - Spine
   - General defects
   iv. Disease of joints
   v. Tumours of Bones
   vi. Orthopaedics Neurology – Spina bifida, Polio, Cerebral Palsy
   vii. Disease of muscles, nerves, vessels and fibrous tissues
   viii. Regional Orthopaedics related to spine, shoulder

ix. Elbow, wrist, hip, knee, ankle and foot.

x. Special Subjects - Orthopaedics Radiology

- Amputation
- Physiotherapy
- ALTS
- First Aid

Orthopaedic Radiology

Basics of : -

a) Plain X-ray, Bones, Spine, Pelvis, Joints etc.

b) USG – Musculoskeletol & Joints etc.

c) C.T. – Plain, Contrast, Enhanced CT, CT myelo, PET, CT.

d) MRI

e) Colour Doppler

f) Radio isotope Scanning – Bone scan, MIBG, Role in tumors infections,

i. Metabolic & hematological conditions.

ii. Endocrinal Disorders

iii. Hereditary Disorders

iv. Endoscopy

v. Computer Assisted procedures

vi. Materials used in Orthopaedics

vii. Legal perspectives of practice (M.L.C) Nursing home acts, labour laws, waste disposal, various certificates – M.L.C & Disability percentage.

viii. Infection control, theatre disciplines

ix. Doctor patient relationship

x. Doctor as an administrator, hospital management.

xi. Maintenance of instruments and equipments.

UNIVERSITY EXAMINATIONS

After successful completion 2 Years' residency

Theory Examination: Each paper 100 marks – 3 hrs duration

	Sections with marks
Paper I	Anatomy, Physiology and Pathology as applicable to Orthopaedics. 4 Sections, each having two questions: 'A' (13 marks), and 'B' (12 marks) Total = 100 marks
Paper II	Traumatology and general Surgery, 4 Sections, each having two questions: 'A' (13 marks), and 'B' (12 marks) Total = 100 marks
Paper III	General Orthopaedics 4 Sections, each having two questions: 'A' (13 marks), and 'B' (12 marks) Total = 100 marks
	TOTAL THEORY = 300

Minimum passing marks in each head 40% and aggregate: 50% in all papers

Practical Examination:

Sr.No.	**Description**	**Marks**	**Preparation time**	**Assessment time**
1	1 Long case	100		
2	2 Short cases	50 each = 100		
Viva	Tables : 100 1) Instruments = 20 2) X-rays = 20 3) Specimen & Bones and splints = 20 4) Ward round = 20 5) Operation = 20	100		
	TOTAL PRACTICAL	**300**		

Minimum passing marks: 50% separate in clinical and viva