

## First B.O.Th. Year

### B.O.Th. 101: HUMAN ANATOMY

[235 HRS]

**Didactic — 160 HRS — Practical / Laboratory —75 hrs**

Goal — To provide the student with the necessary Anatomical knowledge & skills to practice as a qualified Occupational Therapist.

#### Course Objectives:

**1) Histology** — student should be able to identify describe basic tissues.

**2) MUSCULO — SKELETAL** — The student should be able:

- i) To identify & Describe Anatomical aspects of muscle bones & joints, & to understand and analyze movements.
- ii) To understand the anatomical basis of various clinical conditions e.g. trauma, deformities, pertaining to limbs & spine.
- iii) To be able to localize various surface land-marks;
- iv) To understand & describe the mechanism of posture & gait the Anatomical basis of abnormal gait.

**3) In NEURO—Anatomy—**

- i) To identify & describe various parts of C.N.S. — fore brain, Midbrain, Hind-brain Brain stem, courses of cranial nerves; functional components, course distribution. Anatomical bases of clinical lesions:
- ii) To describe the source & course of spinal tracts;
- iii) To describe blood circulation of C.N.S. & spine;
- iv) Be able to identify the components of various Trans —sections.

**4) THORAX** — to identify & describe various components of the contents of the Thorax — with special emphasis to tracheo-bronchial tree, & cardio pulmonary system.

**5) CIRCULATORY** — i) be able to identify & describe the source & course of major arterial venous & Lymphatic system, with special emphasis to extremities, Spine & Thora

#### PRACTICALS

- i) to be able to demonstrate the movements of various joints
- ii) distinguish cranial & peripheral nerves
- iii) distinguish major arteries, veins & Lymphatics with special emphases to extremities, & spine.

## **Syllabus: of B.O.Th. 101**

- 1] GENERAL Anatomy Histology of Epithelial, Connecting muscular, nervous tissues (10 hrs)
- 2) MUSCULO SKELETAL Anatomy (25 hrs)
  - i) Superior extremity (25 hrs)
  - ii) Inferior extremity (25 hrs)
  - iii) Spine, head & neck (25 hrs)
  - iv) Facial & pelvic floor muscle & T.M. joint (07 hrs)
  - v) Surface Anatomy (08 hrs)
- 3] NEURO —Anatomy (60 hrs)
  - i) General organization of C. N. S.
  - ii) Cranial nerves
  - iii) Peripheral nervous system
  - iv) C.N.S.
- 4] SYSTEMIC ANATOMY —
  - i) Elementary system (08 hrs)
  - ii) Uro —genital system [special emphasis to Female organs] (10 hrs)
  - iii) Micro — Anatomy (cartilage, bone, nerve, muscle) (10 hrs)
  - iv) Cardio — vascular [including Lymphatic] (10 hrs)
  - v) Respiratory system (06 hrs)
  - vi) Integrated neuro — muscular (02 hrs)
  - vii) Axial skeletal (04 hrs)
  - viii) Appendicular system (10 hrs)
  - ix) Sensory organs (08 hrs)
  - x) Endocrine (02 hrs)
  - xi) Radiological. (05 hrs)

### **TEXT BOOKS**

- 1] Human Anatomy — by Snell
- 2] Anatomy & Physiology by Smout and Mcdowell
- 3] Anatomy by Chaurasia all 3 volumes
- 4] Kinesiology by Katherine Wells
- 5] Neuro anatomy by Inderbir Singh
- 6] Human Anatomy by Kadasne
- 7] Neuro anatomy by Shell
- 8] Neuro anatomy by Visharam Singh

### **REFERENCE BOOKS**

- 1] Gray's Anatomy
- 2] Extremities by Quining Wasb
- 3) Atlas of Histology by Mariano Defiore