

# **SYLLABUS FOR Ph.D. IN ANATOMY**

## **GENERAL AND GROSS ANATOMY**

Bones, joints, Muscles Connective tissue, Lymphatic and cardiovascular, Nervous system, Skin and facia

### **SUPEX**

Mammary gland, Axilla, Brachial plexus, Cubital fossa, Shoulder joint, Elbow joint, Wrist Joint, Fascial spaces of hand, Radiocarpal joint.

### **INFEX**

Femoral triangle, Adductor canal, Gluteal region, popliteal fossa, Arches of foot, Hip joint , Knee joint, Ankle joint.

### **THORAX**

Pleura and lung, Pericardium, Heart, Blood supply of heart, Mediastim, Azygous system of vein.

### **ABDOMEN**

Inguinal canal, Male exretnal genitalia, Peritoneum, Stomach, Small and large intestine, Aorta and its branches, Extrahepatic biliary apparatus, caecum and appendix, Rectum and anal canal, spleen , liver, kidney, ureter, urinary bladder, urethra, Suprarenal gland, Diaphragm, Perinuem, Ischiorectal fossa, Ptrostate, Uterus and vagina, Ovaries.

### **HEAD , NECK AND FACE**

Scaip, side of neck, cranial cavity and dural venous sinuses, orbit, parotid region, infratemporal region, muscles of mastication and mandibular nerve, temporomandibular joint, facial nerve, submandibular gland, thyroid gland, tongue, pharynx and palate, palatine tonsil, paranasal sinusea, larynx, eyeball,cranial nerves.

### **NEUROANATOMY**

Meninges and CSF, Blood vessels of brain, spinal cord, cerebrum , cerebellum, brain stem, ventricles of brain, basal nuclei, reticular formation, thalamus , hypothalamus, limbic system, autonomic nervous system

### **HISTOLOGY & HISTOCHEMISTRY**

Cell, Epithelium, connective tissue, glands , musle, bone, nervous tissue, lymphatic system, cardiovascular system, skin, respiratory system, salivary glands, oesophagus, stomach, small intestine & large intestine, liver, pancreas & appendix, kidney, ureter, urinary bladder, urethra, male genital system, female genital system, endocrine system, cerebrum and cerebellum, cornea, retina

## **EMBRYOLOGY**

Gametogenesis, menstrual cycle, formation of germ layers, development of embryonic disc, somites, placenta and foetal membranes, pharyngeal arches and pouches, development of face, nose and palate, mouth, pharynx, development of gut, development of liver, spleen, pancreas, development of respiratory system, development of cardiovascular system, development of urogenital system, development of nervous system, development of eye, ear and congenital malformations

## **GENETICS**

Chromosomes and chromosomal aberrations, karyotyping, cell division, Single gene pattern inheritance, Multifactorial pattern of inheritance, Reproduction genetics

## **SUGGESTED READING MATERIAL**

### **I. Textbooks:**

1. Cunningham's Manual of Practical Anatomy – Latest editions of vol. I, II, III
2. Regional & Applied Anatomy – R. J. Last
3. Clinical Anatomy for Medical Students – Richard Snell
4. Synopsis of Surgical Anatomy – McGregor
5. Functional Histology – Wherter, Burkit
6. Langman's Medical Embryology
7. Embryology by Keith Moore
8. Clinical Neuroanatomy – Snell
9. The Human Nervous System – Murray Barr, John Keiman
10. Genetics by Emery
11. Human Genetics – S.D. Gangane
12. Essential of HUMAN Genetics by Bhatnagar, Kothari and Mehta
13. Cross-sectional anatomy by Bo, Meehan and Kruger
14. Principles of General anatomy by A.K. Dutta
15. Comparative anatomy A.S. Romer

### **II. Reference Books:**

1. Gray's Anatomy
2. Clinical Anatomy – NMS Series
3. Anatomy for Surgeons - Henry Hollinshead
4. Surgical Anatomy – Harold Ellis
5. Bailey's Textbook of Microscopic Anatomy
6. Embryology - Boyd & Mossman
7. Clinically oriented anatomy – Keith Moore
8. Atlas of Human Histology – Di fiore
9. Tissues of the Human Body by Le Gros Clerk
10. Genetics by Thompson and Thompson
11. History of Anatomy Indian Medicine – Kutumbiah
12. Dorlands Medical Dictionary