

Anatomy I (1st Year)

Total teaching hours: - Lectures: 120-Practical: 120 - Total: 240

Course contents:

Topic	Hours per Year	
	Lecture hours	Practical hours
<u>1.Introduction:</u> Bones / Joints / Skin /Muscles, Anatomical planes & Terminology.	12	---
<u>2.Upper limb:</u> Bones of upper limb / Pectoral region / Axilla / Back / Shoulder region /Anterior compartment of arm / Posterior compartment of arm / Cubital fossa / Bones of forearm / Front of forearm / Back of forearm / Hand / Joints / Nerve injury / Applied & radiological anatomy.	28	44
<u>3.Thorax:</u> Chest wall / Mediastinum / Lung & Pleura / Pericardium / Heart & its blood supply /Great vessels & nerves / Thoracic duct / Thoracic part of trachea / Thoracic part of esophagus.	44	52
<u>4.Abdomen & Pelvis:</u> Anterior Abdominal wall / Peritoneum / Stomach / Spleen& Ceeliac trunk / Pancreas & duodenum / Small intestine/ Large intestine / Superior & inferior mesenteric vessels / Liver / Extrahepatic biliary system / Portal circulation & portosystemic anastomosis / Kidney / Suprarenal gland / Ureter / Posterior abdominal Wall / Bony pelvis / Muscles of the pelvis / Pelvic viscera (rectum, anal canal, UB, urethra, vas defferance,uterus, vagina, prostate) / Blood supply of the pelvis / Pelvic peritoneum.	20	24
<u>5.Embryology:</u> Male genital system / Female genital system / Gametogenesis / Ovarian cycle / Menstrual cycle / First week of pregnancy / Second week of pregnancy / Third week of pregnancy / Fetal membranes / Placenta / Twins /Development and anomalies of G.LT.	16	---

Physiology, Biostatistics & Physics I (1st Year)

Topic	Hours per Year	
	Lecture hours	Practical hours
	120	120
	Total = 240 hours	

Histology I (1st Year)

Total teaching hours: - Lectures: 60 - Practical: 60 - Total: 120

Course contents:

Topic	Lecture hours	Practical hours	Total hours per year
1-Introduction and microtechniques	6	4	10
2-Cytology and Cytogenetics	12	10	22
3-Epithelium	6	4	10
4-connective tissue	4	4	8
5-Cartilage	4	4	8
6-Bone	4	6	10
7- Blood & haemopoiesis	4	4	8
8- Muscle tissue	4	6	10
9- Nerve tissue	6	8	14
10-Cardiovascular system	4	4	8
11 -Lymphatic (immune) system	6	6	12
	60	60	120

Total teaching hours: - Lectures: 210 - Practical: 68 - Total: 278

Course contents:

Topic	Hours per year	
	Lecture hours	Practical hours
<u>1.Introduction:</u> Biophysics / Biostatistics / Physiology of the cell & cell membrane / Membrane transport / Cellular connections.	70	12
<u>2.Blood:</u> Introduction & function of blood /Plasma proteins / RBC's & anemia / Platelets & Hemostasis / WBC's /Blood groups /Immunity	20	8
<u>3.Autonomic nervous system:</u> Classification of nervous system / Reflex arc / Autonomic ganglia / Sympathetic nervous system / Stress response /Parasympathetic nervous system / Integration of autonomic functions / Cholinergic division of autonomic nervous system / Drugs affecting parasympathetic nervous system / Adrenergic division of autonomic nervous system (noradrenalin) / Drugs affecting sympathetic nervous system	15	6
<u>4.Physiology of the nerve:</u> Strength-duration curve / RMP / Action potential / Effect of sub-threshold stimulus / Excitability changes during AP /Thermal changes the nerve /Conduction of nerve impulses /Neuromuscular transmission /Factors affecting & MEPP	15	6
<u>5.Physiology of the muscle:</u> Physiological anatomy of skeletal muscle / Mechanical changes (excitation-contraction coupling) / Metabolic & thermal changes / Types of sk. muscle contraction / Factors affecting skeletal muscle contraction / Effect of denervation of skeletal muscle / Physiology of Smooth muscle	15	6
<u>6.Respiration:</u> Physiological anatomy of respiratory system /Mechanism of respiration /Intrapleural pressure / Respiratory surfactant /Work of breathing /Lung volumes and capacities / Dead space / Pulmonary function tests / Exchange of gases across Respiratory center /Chemical regulation of respiration /Nervous regulation of respiration / Hypoxia & cyanosis / Acclimatization to high altitude / Effect of muscular exercise on respiration	20	8
<u>7.Digestive system:</u> Structure, innervations & regulation of function of GIT / Salivary secretion / Swallowing / The stomach / The pancreas / The gall bladder / The liver / Jaundice / Small intestine / Absorption in the GIT / Large intestine / GIT hormones	25	8

Topic	Hours per year	
	Lecture hours	Practical hours
8. Cardiovascular system: Properties of the cardiac muscle / ECG / Cardiac arrhythmias / Heart sounds / Cardiac cycle / Arterial pulse / Central venous pressure / The heart rate / Cardiac output & measurement / Blood flow & its measurement / Arterial blood pressure (ABP) / Venous circulation / Capillary circulation / Pulmonary circulation / Lymphatic circulation / Coronary circulation / Cutaneous circulation / Cerebral circulation / Fetal circulation / Hemorrhage & Shock	35	14

Medical Chemistry & Biochemistry I (1st Year)

Total teaching hours: - Lectures: 131 - Practical: 89 - Total: 220

Course contents:

Topic	Lecture hours	Practical & tutorial hours	Total Hours per Year
1-Chemistry.	60	33	93
2-Chemistry of Carbohydrates.	8	8	16
3-Chemistry of Lipid.	8	8	16
4-Chemistry of Protein.	8	8	16
5-Chemistry of Hemoglobin	2	2	4
6-Chemistry of Nucleic acids.	4	2	6
7-Molecular Biology.	12	10	22
8-Cancer and Oncogenes.	4	2	6
9-Cell Cycle and Apoptosis.	2	2	4
10-Biological membranes.	4	2	6
11-Minerals.	6	4	10
12-Enzymes.	6	4	10
13-Free radicals and antioxidants	3	2	5
14-Nutrition	2	2	4
15-Bioinformatics	2	--	2
Total Hours	131	89	220

English

Total teaching hours: - Lectures: 92 - Practical: --- - Total: 92

Course contents:

Topic	Lecture hours	Total hours
1. Medical History , Theory, Ethics of Medicine	30	30
2. Medical terminology	30	30
3. The profession of Medicine	3	3
4. Doctor-Patient Relationship	3	3
5. Preventive Medicine	3	3
6. Verbs and Tenses	3	3
7. Special Terms	3	3
8. Healthcare systems	3	3
9. Career exploration	5	5
Total	92	92

Human Right

Total teaching hours: - Lectures: 30 - Practical: --- - Total: 30

Course contents:

Topic	Lecture hours	Total hours
1. Nature of human rights law	1	1
2. National resources for human rights	1	1
3. International resources for human rights	1	1
4. Types of human rights	1	1
5. Restrictions on human rights	1	1
6. Women rights & Child rights	4	4
7. People with Special needs rights	1	1
8. International system for protection of human rights	1	1
9. Securities & mechanisms of human rights in the national constitutional & law systems	1	1



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Topic		Lecture hours	Total hours
10.	Protections of human rights in national law and protection of intellectual property & publishing rights	4	4
11.	Professional & Categorical duties & responsibilities in medical field.	8	8
12.	Professional & Categorical duties & responsibilities in educational field.	2	2
13.	Professional & Categorical duties & responsibilities in intellectual & media fields	2	2
14.	Professional & Categorical duties & responsibilities in scientific & engineering and agricultural fields	2	2
Total		30	30