

Anatomy & Embryology II (2nd Year)

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

Course contents:

Topic	Lecture hours	Practical hours	Total hours per year
<u>1.Head and Neck:</u> SCALP / Face / Posterior triangle / Anterior triangle / Cranial cavity / Orbit / Submandibular region / Parotid region / Infratemporal fossa / Thyroid gland / pharynx / Nose / Larynx / Mouth cavity / Cranial nerves / blood supply & venous drainage of head and neck.	46	58	104
<u>2.Neuroanatomy:</u> Development of the nervous system and congenital anomalies / Medulla, Pons and Midbrain / Fourth ventricle / Vertebrobasilar system & circle of Willis / Diencephalon / Arterial supply of the brain / Venous drainage (superior cerebral veins and deep cerebral veins, and CSF / Brain stem / Cerebellar connections / Thalamus / Cerebral hemisphere / Basal ganglia & lateral ventricle / Nerve fibers in CNS and the limbic system / Spinal cord Ascending tracts / Pathway of each tract / Trigeminal system / Motor systems & descending tracts	24	28	52
<u>3.Lower limb:</u> Bones of Lower limb / Front of the thigh / Medial aspect of the thigh / gluteal region / Popliteal fossa / Back of the thigh / Anterior compartment of the leg / Dorsum of the foot / Sole of the foot / Joints of lower limb & foot joints.	24	34	58
<u>4.Embryology:</u> Cardiovascular system / Respiratory system / Digestive system / Urogenital system / Nervous system / Endocrine glands / Face, neck, nose & palate / Ear & Eye / Musculo-skeletal system / Integumentary system.	26	0	26
TOTAL	120	120	240



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Medical Physiology & Physics II (2nd Year)

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

Course contents:

Topic	Lecture hours	Practical hours	Total hours per year
1) Respiratory system	4	4	8
2) Digestive system	12	14	26
3) Urinary system	6	4	10
4) Endocrine system	6	6	12
5) Male genital system	6	6	12
6) Female genital system	6	6	12
7) Integumentary system	4	4	8
8) Eye	4	4	8
9) Ear	4	4	8
10) Central nervous system	8	8	16
Total	60	60	120

Histology II (2nd Year)

Total teaching hours: - Lectures: 170 - Practical: 80 - Total: 250

Course contents:

Topic	Hours per year	
	Lecture hours	Practical hours
<p><u>1.Endocrine:</u></p> <p>Introduction of hormones / Pituitary gland / Growth hormone / Prolactin hormone / MSH / Oxytocin / ADH / Thyroxin hormone / Parathyroid hormone / Calcitonin / Active vitamin D / Adrenal cortex hormones / Adrenal medullary hormones / Pancreatic hormones / Physiology of growth / Other organs with endocrine function.</p>	40	16
<p><u>2.Reproduction:</u></p> <p>Reproductive function of male / Hormonal function of male / Reproductive function of the female / Hormonal function of the male / Functions of placenta & pregnancy tests / Puberty and its mechanism / Physiology of lactation.</p>	15	6
<p><u>3.Sensory nervous system:</u></p> <p>Synapse / Neurotransmitters / Sensory receptors / Processing of impulses in the neural pools / Somatic sensations / Sensation from the head & headache / Sensory areas / Abnormalities of somatic sensation.</p>	15	6
<p><u>4.Motor nervous system:</u></p> <p>Human nervous reflexes / Spinal cord reflexes & lesions / Reticular formation / Vestibular apparatus / Basal ganglia / Cerebellum / Electrical activity of brain / Sleep / Speech / Memory and learning / Hypothalamus & limbic system / Thalamus & thalamic syndrome.</p>	35	14
<p><u>5.Renal physiology:</u></p> <p>Kidney (structure, function, renal circulation & J-G apparatus) / Urine formation (GFR, factors affecting, regulation & measurement) / Functions of PCT / Renal handling of (sodium, potassium, glucose, amino acids) / Functions of DCT & Diuretics / Countercurrent mechanism / Acid –base balance & imbalance (acidosis & alkalosis) / Plasma clearance concept / Renal function tests / Micturition.</p>	15	6



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6. Metabolism: Energy balance /heat value of food / RQ / MR & BMR / Body temperature regulation / Fever & hypothermia / Obesity / Physiology of exercise / Starvation.	10	4
7. Special senses: -Physiological anatomy of the eye /Near response / Eye lens & errors of refraction & cataract / Accommodation reflex / IOP & glaucoma / The retina /Retinal changes on exposure to light / Retinal adaptation / Visual acuity & visual field / Color vision / The visual pathway & lesions / Perception of depth / Physics of hearing /Physiology of smell / Physiology of taste.	20	8
8. physics: Human physics.	20	20

Medical Biochemistry & Clinical Chemistry II (2nd Year)

Total teaching hours: - Lectures: 135 - Practical: 90 - Total: 225

Course contents:

Topic	Lecture hours	Practical & tutorial hours	Total hours per Year
1. Clinical Chemistry	60	30	90
2. Carbohydrates metabolism.	14	12	26
3. Bioenergetics & Biological oxidation.	2	2	4
4. The respiratory chain.	12	8	20
5. Lipid metabolism.	14	12	26
6. Proteins & amino acids metabolism.	3	2	5
7. Heme metabolism.	2	2	4
8. Integration of metabolism.	3	2	5
9. Purines and Pyrimidines metabolism.	8	4	12
10. Vitamins.	10	6	16
11. Hormones & their mode of action.	3	2	5
12. Metabolism of xenobiotics.	2	6	8
13. Body fluids (Plasma proteins).			



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Total hours	135	90	225
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Psychotherapy & behavioural Sciences

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

Course contents:

Topic	Lecture hours
1. The patient doctor relationship.	2
2. Physical development / Cognitive development / Moral development.	3
3. Psychosexual stages (Sigmund Freud).	2
4. Defense mechanisms.	3
5. Learning / Thinking / Memory.	3
6. Attention / Perception / Motives.	3
7. Frustration / Conflict / Stress.	3
8. Emotions / Consciousness / Sleep.	3
9. IQ / Personality / Psychometric measurement of Personality and IQ.	5
10. Psychosomatic Disorders / Psychotic Disorders / Psychopharmacology.	3
Total	30

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