

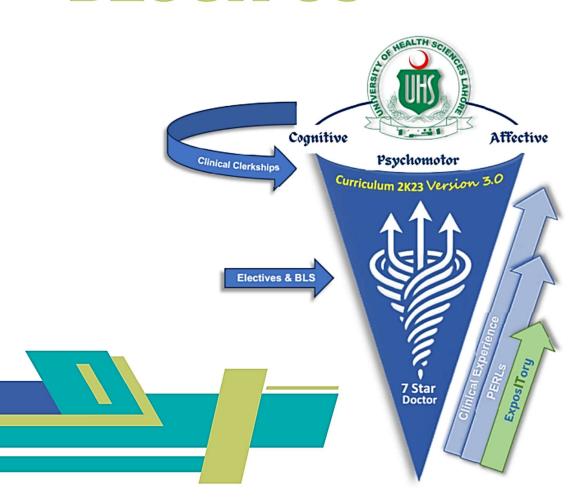
STUDY GUIDE BLOCK 5 Sialkot Medical College, Sialkot



Modular Integrated Curriculum 2K23

version 3.0

BLOCK-05





MODULE RATIONALE

Endocrinal system is a unique system consists of glands which control body systems through its secretions known as hormones. These chemical compounds known as hormones play an integral role in maintaining cell activity and organ functions through biochemical signals. Human reproduction is controlled by hormones released by gonads.

Changes in hormonal levels can affect human fertility.

In this module the anatomy and physiology of the endocrine organs, functional biochemistry of the hormones secreted will be taught in integrated fashion with reference to common disease occurring in Pakistani community.

MODULE OUTCOMES

- Explain Development, structure, hormones and regulation of pituitary gland, thyroid gland, parathyroid gland, endocrine pancreas, adrenal glands, testes and ovaries.
- Describe the etiology, pathophysiology, relevant clinical features and common investigations of disorders of these glands.
- Apply levels of prevention for common endocrinal public health issues in Pakistan.
- Elaborate events in normal pregnancy and principles of genetics.

THEMES

- Introduction to Endocrinology, Mechanism of action, Second messenger, measurements
- Pituitary gland
- Thyroid Gland & Parathyroid Gland
- Adrenal glands
- Pancreatic Hormones
- Reproduction & Genetics

CLINICAL RELEVANCE

- Diabetes
- Hypothyroidism & Hyperthyroidism
- Cushing Syndrome & Addison's disease
- Dysfunctional Uterine Bleeding
- Infertility

IMPLEMENTATION TORS

- The time calculation for completion of modules and blocks is based on 35 hours per week.
 Total hours of teaching, learning and formative/summative internal assessment to be completed in a year are 1200.
- The hours mentioned within each module are the mandatory minimum required. The rest of the hours are left to the discretion of the institution that can be used in teaching, learning and assessment as per decision of the institutional academic council.
- The content and the intended learning outcomes written are mandatory, to be taught, at the level required, as the end year assessment will be based on these.
- However, the level of cognition can be kept at a higher level by the institution.
- The Table of Specifications provided will be used for the three papers of the Second professional examination. The same table of specifications should be used for the respective three block exams for internal assessment.



NORMAL STRUCTURE				
	THEORY			
6005	GROSS ANATOMY	TOTAL H	OURS = 35	
CODE	SPECIFIC LEARNING OUTCOMES	DISCIPLINE	ТОРІС	
EnR-A-001	Describe the location, anatomy blood supply and functions of pituitary gland	Anatomy	Diencephalon (Endocrinology)	
	Describe the Thyroid, Parathyroid with their type, Relations, blood supply, and nerve supply.	Anatomy		
EnR-A-002	Explain the anatomical basis for surgical removal of the glands of neck with special emphasis on the complications that can be encountered	Anatomy	Thyroid & Parathyroid gland	
	Identify the Thyroid with their type, relations, blood supply, and nerve supply.	Anatomy		
EnR-A-003	Describe the structure, fascia, coverings, blood and nerve supply of testis	Anatomy	Testis	
EnR-A-004	Describe the gross anatomical features and neuro- vasculature of epididymis and vas deferens, Seminal vesicles, Bulbourethral gland		Accessory Male organs	
EnR-A-005	Describe the morphological features and neurovascular supply of prostate. Describe, Draw & Label Lobes of prostate gland Correlate the clinical manifestations of prostate with lobes and/or zones of prostate	Anatomy	Prostate	
EnR-A-006	Describe the anatomical basis and manifestations of the following conditions: 1) Hydrocele of spermatic cord and/or testes 2) Hematocele of testes 3) Torsion of the spermatic cord 4) Varicocele Vestigial remnants of embryonic genital duct	Anatomy	Testis clinical conditions	
	Describe the anatomical basis of vasectomy, & metastasis of cancer of testis and scrotum	Anatomy		

EnR-A-007	Describe shape, relations blood supply & nerve supply of	Anatomy	Supra-Renal Gland
	suprarenal gland		
	Explain the anatomical causes of Adrenal Abnormalities	Anatomy	Giaria
	Define Bony Pelvis (Girdle) and describe the structures	Anatomy	
EnR-A-008	forming it.	Anatomy	Pelvic Girdle
LIII (-A-000	Describe the bones and salient anatomical features of	Anatomy	
	Bony pelvis (girdle)	Anatomy	
	Describe the type, articulations and mechanics of		
	movements {axes and planes} of the following joints:		
F D A 000	1) Sacro-Iliac	Α .	Sacroiliac-
EnR-A-009	2) Pubic Symphysis	Anatomy	Joint
	3) Lumbosacral		
	4) Sacrococcygeal		
	List the contents of True and False Pelvis	Anatomy	
	Tabulate the differences between male and female pelvis	Anatomy	Bony Pelvis (Girdle)
EnR-A-010	Describe different types of pelvises	Anatomy	
•	Describes different diameters of pelvis and their	Anatomy	
	application in obstetric practice	(Obs & Gynae)	
	Describe the anatomical basis of pelvic fractures and	Α	
	their consequences	Anatomy	
	Describe the topographical anatomy of pelvic walls and	A == 4=====	Dabria Cindla
EnR-A-011	its components	Anatomy	Pelvic Girdle
	Describe the mechanics of changes occurring in pelvic	Anatomy	1
	ligaments and joint mobility in late pregnancy	(Obs & Gynae)	
	Describe the topographical anatomy of pelvic floor.	Anatomy	
EnR-A-012	Describe origin, insertion, nerve supply and actions of		Pelvic floor
	muscle forming pelvic floor	Anatomy	
	Tabulate the attachments, innervations and actions of	Δ (Pelvic Muscles
EnR-A-013	muscles forming the pelvic walls and floor	Anatomy	
F=D 4 044	Describes injury to pelvic floor during child birth and its	Anatomy	Pelvic Girdle
EnR-A-014	complications	(Obs & Gynae)	
EnD A 015	Describe the peritoneal reflections in the male and female	Anatomy	Peritoneum peritoneal
EnR-A-015	pelvis	Anatomy	cavity of pelvis

EnR-A-016	Describe the gross anatomical features of Sacrum	Anatomy	Sacrum
EnR-A-017	Describe the gross anatomical features of pelvic fascia	Anatomy	Pelvic Fascia
	Describe the boundaries of pelvic outlet and inlet	Anatomy	
EnR-A-018	Enumerate the structures passing through the pelvic inlet and pelvic outlet	Anatomy	Pelvic Outlet and inlet
EnR-A-019	Tabulate the differences in peritoneal reflections in male and female pelvis	Anatomy	Peritoneal Reflection in Pelvis
	Describe the origin, course, branches and distribution of common iliac artery	Anatomy	
EnR-A-020	Describe the origin, course, branches and distribution of external and internal iliac arteries	Anatomy	Pelvic Vessels
	Describe the origin, course, tributaries and area of drainage of pelvic veins	Anatomy	
EnR-A-021	Describe the location, afferents and efferent of pelvic lymph nodes	Anatomy	Pelvic Lymph Nodes
	Tabulate the origin, course, distribution and anastomosis of arteries of the pelvis	Anatomy	
	Describe the origin, root value, course, relations, branches and distribution of Pelvic nerves	Anatomy	Pelvic Vessels & Pelvic nerves
EnR-A-022	Describe the anatomical basis and clinical picture for ligation of internal iliac artery and collateral circulation in pelvis	Anatomy	
	Describe the clinical picture and anatomical basis for the injury to pelvic nerves	Anatomy	
	Give anatomical justification for pelvic nerve blocks	Anatomy	1
EnR-A-023	Describe the morphological features of urethra (male and female)	Anatomy	
	Tabulate the parts of the male urethra with their location and salient features	Anatomy	Pelvis
	Describe the clinical picture and anatomical justification for Ureteric Caliculi, Cystocele, Suprapubic Cystotomy, Rupture of Bladder	Anatomy	

	Describe the clinical picture and anatomical justification		
	for Hypertrophy of Prostate	Anatomy	
	Describe the gross anatomical features of Ovaries and		
	Fallopian Tubes with their relations, blood supply, nerve		
	supply and lymphatic drainage		
	Describe related clinical conditions:	Α .	
	1) Positions of ovaries	Anatomy	
	2) Cysts of ovaries		
	3) Ectopic pregnancy		
	4) Tubal ligation		
	5) Salpingitis		
	Describe the gross anatomical features, parts, peritoneal		
	ligaments, blood supply, nerve supply & lymphatic &		
	clinical aspects of Uterus and Vagina		
	Describe related clinical conditions	Anatomy	
	Prolapse of uterus		
	2. Vaginal trauma		
	3. culdocentesis		
	Describe, identify, justify and demonstrate the supports of		
	uterus	Anatomy	
	Describe the gross anatomical features of Boundaries &	_	
	divisions of perineum	Anatomy	
	Draw and label the boundaries of perineum	Anatomy	
	List the contents of perineum	Anatomy	
EnR-A-024	Tabulate the differences between the Male and female	A 4	
	perineum	Anatomy	Perineum
	Describe the attachments of the perineal membrane and	Anatomy	
	list its relations	Anatomy	
	Discuss the formation of Superficial and Deep Perineal	Anctores	
	Pouches	Anatomy	
	List the contents of Superficial and Deep Perineal Spaces	Anatomy	
1			

	Tabulate the attachments, actions and nerve supply of muscles of perineum	Anatomy	
	Describe the topographical anatomy and neuro- vasculature of Penis	Anatomy	
	Tabulate the muscles forming the perineal body with their attachments and nerve supply	Anatomy	
	Describe the clinical presentation and anatomical		
	justification for:		
	1) Hypospadias		
	2) Phimosis		
	3) Circumcision		
EnR-A-025	4) Erectile Dysfunction	Anatomy	Pelvis
	5) Internal Hernias		
	6) Suprapubic Cystotomy		
	7) Rupture Of Bladder		
	8) Rectal Examination		
	9) Disposition Of Uterus		
	Describe the extent, structure, vascular supply, lymphatic	Integrate with	
	drainage of Breast (Mammary Glands)	Medicine	
F=D A 000	Demonstrate palpation of breast and define its relation to	Integrate	Mammary
EnR-A-026	the Fibrous septa in Carcinoma of Breast	with Surgery	Gland
	Explain the anatomical basis of position adopted for	Integrate	
	breast examination and mammography.	with Radiology	
CODE	EMBRYOLOGY & POST-NATAL DEVELOPMENT	TOTAL H	OURS = 14
	SPECIFIC LEARNING OUTCOMES	DISCIPLINE	TOPIC
	Describe the contributing factors, histogenesis and	Anotomy	
	sequence of events of the development of Thyroid gland	Anatomy	Development of
	Explain the embryological basis of the Thyroglossal Cyst	Anatomy	Thyroid gland
EnR-A-027	Draw a concept map highlighting the development of	Anatomy	
	thyroid gland	-	
EnR-A-028	Describe the development of para-thyroid glands	Anatomy	Development

	Draw a concept map highlighting the development of para-thyroid gland	Anatomy	Of Parathyroid glands
EnR-A-029	Anatomically justify the clinical presentation of: 1. Ectopic Parathyroid	Anatomy	Development of Thyroid,
	Aberrant Thyroid Describe the development of pituitary gland		Parathyroid
EnR-A-030	Describe the embryological basis for the congenital anomalies of pituitary development	Anatomy	Development of Pituitary Gland
	Describe the contributing factors, histogenesis and the development of adrenal gland	Anatomy	Development
EnR-A-031	Draw a concept map for the development of adrenal gland	Anatomy	Of Adrenal Gland
	Describe the embryological basis for the congenital anomalies of adrenal development	Anatomy	
EnR-A-032	Identify the stages in the development of the adrenal gland	Anatomy	Adrenal Gland
EnR-A-033	Describe the indifferent gonads List and describe the Factors influencing the differentiation of gonads Evaluate the role of the factors influencing Sex determination and differentiation	Anatomy	Development of Reproductive system
	Describe the Development and descent of testis	Anatomy	
EnR-A-034	Describe the embryological basis and locations of undescended testes	Anatomy	Testis
	Draw a concept map highlighting the development of testis	Anatomy	
	Explain the Development and descent of ovaries	Anatomy	
EnR-A-035	Draw a concept map highlighting the development of ovaries	Anatomy	Development of Reproductive
	Describe the anatomical basis for indifferent gonads, Klinefelter, turner syndromes & androgen insufficiency	Anatomy	system
	Describe the Formation of Genital Ducts In different stage (paramesonephric and mesonephric ducts)	Anatomy	

	Development of Mammary gland. Describe related		
	clinical anomalies.		
	Describe the development of female genital ducts and		
	glands, Development of uterus & Vagina. Describe		
	related clinical anomalies:		
	1) Uterus Arcuatus		
	2) Uterus septus		
	3) Uterus Bicornis Bicollis	Anatomy	
	4) Uterus Bicornis Unicollis		
	5) Uterus Unicornis		
	6) Atresia of vagina		
	7) Double vagina		
	8) Imperforate hymen		
	Describe the development of male genital ducts and	Anatomy	
	glands	Anatomy	
	Discuss the Development of male external genitalia	Anatomy	
	Describe the Development of female external genitalia	Anatomy	
	Explain the anatomical basis for the Associated		
	congenital anomalies of male and female external	Anatomy	
	genitalia (Hyposidiasis, Epispidiasis)		
	Describe the development of inguinal canal and descent		
	of testis and embryological basis for Cryptorchidism,	Anatomy	
	Ectopic Testis, Congenital Inguinal Hernia, Hydrocele		
	Klinefelter, turner syndromes & androgen insufficiency		
	Describe the embryological basis for the coverings of	Anatomy	
	testis		
CODE	MICROSCOPIC STRUCTURE (HISTOLOGY & PATHOLOGY)	TOTAL H	OURS = 14
CODE	SPECIFIC LEARNING OUTCOMES	DISCIPLINE	ТОРІС
	Describe the histological basis and manifestation of	Anatomy/	
	Gastric Carcinoid Tumors	Pathology	Stomach
EnR-A-036	Classify the principal Enteroendocrine Cells on the basis		Cicinadii
	of type, location, hormone produced and Actions	Anatomy	
EnR-A-037	Describe microscopic structure of Pituitary gland.	Anatomy	Pituitary Gland

	Classify pituitary gland on the basis of cell type, hormone produced and functions	Anatomy	
	Explain the histological basis and manifestation of Pituitary Adenomas	Anatomy	
F. D. A. 020	Describe the light microscopic structure of Adrenal Gland	Anatomy	Adrenal Gland
EnR-A-038	Explain the histological basis and manifestation of Addison disease	Anatomy	
	Describe the light microscopic structure of endocrine pancreas	Anatomy	
	Classify the pancreatic islets on the basis of cell type, hormone produced and functions	Anatomy	Pancreas
EnR-A-039	Explain the histological basis and manifestation of Diabetes Mellitus	Anatomy	
	Explain the components and functions of neuroendocrine system	Anatomy	
	Describe the light microscopic structure of Thyroid Gland	Anatomy	
EnR-A-040	Describe the light microscopic structure of Parathyroid Gland	Anatomy	Thyroid Gland
	Describe the light microscopic structure of Pineal gland	Anatomy	
EnR-A-041	Describe the light and ultramicroscopic structure of Testes, structure & function of Sertoli cells. Describe Blood testes Barrier	Anatomy	Testes
	Describe the histological basis and manifestation of Orchitis, Cryptorchidism	Anatomy Pathology	
EnR-A-042	Describe the light microscopic structure of Epididymis	Anatomy	Epididymis
EnR-A-043	Describe the light microscopic structure of vas deferens	Anatomy	Vas deferens
EnR-A-044	Describe the light microscopic structure of seminal vesicle	Anatomy	Seminal Vesicle
	Describe the light microscopic structure of Prostate Gland	Anatomy	
EnR-A-045	Describe the lobes of prostate and correlate with the pathologies of prostate	Anatomy pathology	Prostate gland
EnR-A-046	Describe the light microscopic structure of ovaries	Anatomy	Ovaries

	Describe the light microscopic structure of ovarian follicles in different stages of menstrual cycle.	Anatomy	
	Describe the histological basis and manifestation of Polycystic Ovary Syndrome	Anatomy Pathology	
	Discuss the light microscopic structure of uterus	Anatomy	
EnR-A-047	Describe the light microscopic structure of different stages of Menstrual cycle	Anatomy	Uterus
	Describe the histological basis and manifestation of Endometriosis	Anatomy Gynae & Obs.	
EnR-A-048	Describe the light microscopic structure of Fallopian Tube.	Anatomy	Fallopian Tube
	Describe the light microscopic structure of Cervix	Anatomy	
EnR-A-049	Describe the histological basis and manifestation of Cervical Carcinoma	Anatomy Pathology	Cervix
EnR-A-050	Describe the light microscopic structure of Vagina	Anatomy	Vagina
EnR-A-051	Describe light microscopic structure of mammary gland (inactive, during pregnancy, after lactation) Discuss histological basis of Breast cancer	Anatomy pathology	Mammary Gland
	PRACTI L AL		
CODE	HISTOLOGY	TOTAL H	OURS = 11
CODE	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	TOPIC
EnR-A-052	Identify draw & Label the Pituitary gland under light microscope	Anatomy	Pituitary gland
EnR-A-053	Identify draw & label the Thyroid & Parathyroid glands under light microscope	Anatomy	Thyroid & Parathyroid
EnR-A-054	Identify draw & Label the Adrenal gland under light microscope	Anatomy	Adrenal Gland
EnR-A-055	Identify draw & Label Testes, Epididymis & Vas deferens under the light Microscope	Anatomy	Testes Epididymis

EnR-A-056	Identify draw & label the seminal vesicle & prostate gland		Seminal
	under light Microscope	Anatomy	Vesicle
	j '		Prostate Gland
	Identify, draw and label the ovaries under light	Α	
EnR-A-057	microscope	Anatomy	Ovaries
	Identify, draw and label the slide of different phases of		
EnR-A-058	uterus under light microscope	Anatomy	Uterus
	Identify, draw and label the fallopian tube under light		
EnR-A-059	microscope	Anatomy	Fallopian Tube
EnR-A-060	Identify, draw and label the cervix under light microscope	Anatomy	Cervix
EnR-A-061	Identify, draw and label the vagina under light microscope	Anatomy	Vagina
	Identify, draw and label the mammary gland (different		Mammary
EnR-A-062	stages) under light microscope	Anatomy	gland

NORMAL FUNCTION

THEORY

CODE	MEDICAL PHYSIOLOGY	TOTAL HOURS = 59	
	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	ТОРІС
EnR-P-001	Define different chemical messengers. Enlist endocrine organs and hormones of the body. Enlist the hormones on the basis of chemical nature. Discuss the feedback control of hormone secretion. Explain the up and down regulation of receptors. Enlist the location of hormone receptors. Explain the mechanism of intracellular signaling after hormone receptor activation. Name the hormones that use enzyme-linked hormone receptors signaling. Explain the mechanism of enzyme linked receptors. Enlist second messenger mechanisms for mediating intracellular hormonal functions. Define second messenger system.	Physiology	Introduction to Endocrinology
	Explain the adenylyl cyclase– cAMP Second Messenger System.		

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	Enumerate the hormones that use the adenylyl cyclase-		
	cAMP Second Messenger System.		
	Explain The cell membrane phospholipid second		
	messenger System.		
	Enumerate the hormones that use cell membrane		
	phospholipid second messenger system.		
	Explain the mechanism of calcium Calmodulin system.		
	Name the hormones/ factors of hypothalamus.		
	Name the hormones of anterior pituitary.		
	Name the hormones of posterior pituitary.		
	Describe the functional relationship between		
	hypothalamus, anterior and posterior pituitary gland.		
	Explain the significance of hypothalamic- hypophysial		
	portal circulation.		
	Explain the hypothalamic pituitary tract.		
	Explain the mechanism of action of growth hormone.		
	Explain the actions of Growth hormone on Carbohydrate.		
	Discuss the actions of Growth hormone on protein		
	metabolism.		
	Describe the actions of Growth hormone on fat		
EnR-P-001	metabolism.	Physiology	Hypothalamus /
	Explain the effect of growth hormone on skeletal growth		Pituitary Gland
	and age.		
	Explain the significance of somatomedins in mediating		
	the actions of growth hormone.		
	Describe the regulation of Growth Hormone.		
	Describe the causes and features and treatment of		
	panhypopituitarism in adults and childhood.		
	Define Sheehan's syndrome.		
	Enlist the types of dwarfism according to cause.		
	Explain the pathophysiology and features of gigantism		
	and acromegaly.		
	Explain the mechanism of action of antidiuretic hormone.		
	Discuss the actions of antidiuretic hormone.		
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	Regulation of antidiuretic hormone production.		
	Elaborate the mechanism of action of oxytocin.		
	Discuss the actions of oxytocin.		
	Discuss the transport of thyroid hormone		
	Discuss the mechanism of action of thyroid hormone		
	Explain the actions of thyroid hormone on carbohydrate		
	metabolism		
	Discuss the actions of thyroid hormone on protein		
	metabolism		
EnR-P-002	Explain the actions of thyroid hormones on fat	Physiology	Thyroid gland
	metabolism		
	Explain the non-metabolic functions of thyroid hormone		
	Explain the regulation of thyroid hormone		
	Enumerate antithyroid substances and explain their		
	mechanism of action		
	Enumerate the causes of hyperthyroidism		
	Explain the features, pathophysiology and treatment of		
	thyrotoxicosis/ grave's disease		
	Explain the thyroid function test to investigate hypo and		
	hyperthyroidism		
	Enlist the causes of hypothyroidism		
	Explain the pathophysiology of Hashimoto		
	hypothyroidism		
	Discuss the features and pathophysiology and treatment		
	of myxedema		
	Explain the pathophysiology and features of endemic		
	colloid goiter		
	Discuss the pathophysiology and features of nontoxic		
	colloid goiter		
	Enlist the causes of cretinism		
	Discuss the features and pathophysiology of cretinism		
	Name the hormones of adrenal cortex.		
EnD D 000	Explain the physiological anatomy of adrenal cortex.	Physiology &	Adreno
EnR-P-003	Explain the cellular mechanism of Aldosterone action.	Pathology	cortical hormones
	Explain the effects of mineralocorticoid hormone.		

	Discuss the regulation of aldosterone secretion.		
	Discuss the metabolic and non-metabolic functions of		
	cortisol		
	Explain the interconversion of active cortisol and inactive		
	cortisone by the 2, 11 beta hydroxysteroid		
	dehydrogenase isoform.		
	Explain the mechanism for regulation of glucocorticoid		
	secretion by hypothalamus and pituitary		
	Name adrenal androgens and enlist the functions of		
	adrenal androgens.		
	Discuss the causes, features, pathophysiology and		
	treatment of hypoadrenalism (Addison's disease).		
	Enlist the causes of hyperadrenalism.		
	Explain the features, pathophysiology and treatment of		
	Cushing's syndrome.		
	Differentiate between Cushing's syndrome and Cushing's		
	disease		
	Explain the clinical importance of dexamethasone		
	suppression test to diagnose Cushing's syndrome.		
	Discuss the features, pathophysiology and treatment of		
	Conn's syndrome.		
	Enlist the cause, features and pathophysiology of		
	congenital adrenal hyperplasia/ Androgenital syndrome.		
	Enumerate the types of pancreatic cells with their		
	hormones.		
	Explain the mechanism of action of insulin.		
	Discuss the synthesis and mechanism of release of		
	insulin.		_
EnR-P-004	Explain the effects of insulin on carbohydrate, protein and	Physiology	Pancreatic hormones
	lipid metabolism.		
	Enlist the actions of insulin on liver, adipose tissue and		
	skeletal muscle.		
	Enlist the factors and conditions that increase or		
	decrease insulin secretion.		

	Explain the role of insulin (and other hormones) in		
	"switching" between carbohydrate and lipid metabolism.		
	Discuss the effects of glucagon on carbohydrate and lipid		
	metabolism.		
	Explain the factors that regulate the secretion of		
	glucagon.		
	Explain the 24-hour regulation of glucose.		
	Discuss the importance of blood glucose regulation.		
	Explain the actions of somatostatin.		
	Enlist the types of diabetes mellitus		
	Explain the causes of Type I and type II diabetes mellitus		
	Discuss the features and pathophysiology of diabetes		
	mellitus		
	Explain the role of insulin resistance, obesity and		Abnormalities
EnR-P-005	metabolic syndrome in developing type II diabetes	Physiology	of Glucose regulation
	mellitus		3
	Explain how to diagnose the diabetes mellitus		
	Explain the treatment of type I and type II diabetes		
	mellitus Explain the features, cause of insulinoma		
	Discuss the physiological anatomy of parathyroid gland		
	Explain the rapid and slow mechanism of resorption of		
E B B 200	bone by parathyroid hormone	D	Parathyroid
EnR-P-006	Discuss the actions of parathyroid	Physiology	hormones
	Explain the control of parathyroid secretion by calcium ion		
	concentration		
	Discuss the effects of Vitamin D		
	Discuss the effects of calcitonin on calcium		
	Discuss the regulation of calcium (the first & second line		
	of defense)		Regulation of
EnR-P-007	Explain the causes and features of hypoparathyroidism	Physiology	calcium in body
	Explain the causes and the features of primary and		j
	secondary hyperparathyroidism		
	Enumerate the causes and features of osteoporosis		
E D D 222	Enlist the functions of adrenal medullary hormones and	DI ''	Adreno
EnR-P-008	explain pheochromocytoma	Physiology	medullary hormones

	Describe the hormonal factors that affect spermatogenesis		
	Explain the maturation and storage of sperm in		
	epididymis		
	Discuss the structure and physiology of a mature sperm		Spermatogene sis
EnR-P-009	Describe the composition of semen	Physiology	
2	Discuss the functions of prostate & seminal vesicles in	1 Hydididgy	Capacitation & Acrosome
	the formation of semen		reaction
	Explain the phenomenon of capacitation and its		
	significance		
	Describe the acrosome Reaction and its significance		
	Discuss the role of pineal gland in reproduction		
	Discuss the site of secretion of testosterone		
	Name the active form of testosterone		
	Explain the production of estrogen in males		
	Describe the basic intracellular mechanism of action of		
EnR-P-010	testosterone	Physiology	Testosterone
Lilixi -010	Explain the functions of testosterone in intrauterine life	1 Hysiology	restosterone
	and after birth		
	Discuss the regulation of male sexual functions by		
	hormones from the hypothalamus and anterior pituitary		
	gland		
	Enumerate and explain the phases of ovarian cycle along		
	with the hormonal changes		
	Explain the postulated mechanism of ovulation		
	Explain the formation and involution of Corpus luteum		NA A I
EnR-P-011	Endometrial cycle	Physiology	Menstrual cycle
	Explain the structural and hormonal changes of		
	endometrial cycle		
	Explain the regulation of female monthly cycle		
	Discuss the role of progesterone on female sexual organs		
EnR-P-012	Enumerate the ovarian hormones	Physiology	Female sexual
EIIK-F-UIZ	Discuss the synthesis of estrogen and progesterone	, 5.0.099	hormones

	Describe the interaction of follicular theca and granulosa cells for production of estrogens with the help of a diagram Explain the functions of the estrogens on different organs Discuss the role of progesterone on female sexual organs Explain the physiological basis of puberty, menarche		
EnR-P-013	Define menopause Explain the cause of menopause Discuss the physiological changes in the function of the body at the time of menopause	Physiology	Puberty, menarche & menopause
EnR-P-014	Explain the non-hormonal functions of placenta Explain the hormonal factors in pregnancy/ hormones of placenta Explain the changes in non- placental hormones during pregnancy Response of the mother's body to pregnancy Explain the mechanical and hormonal factors that increase uterine contractility during parturition Explain the physiology of lactation	Physiology	Normal Pregnancy
EnR-P-015	Discuss the actions of prolactin Justify the suppression of ejection of milk during pregnancy Discuss the physiological basis of suppression of the female ovarian cycles in nursing mothers for many months after delivery	Physiology	Lactation
CODE	MEDICAL BIOCHEMISTRY	TOTAL H	OURS = 35
	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	TOPIC
EnR-B-001	Define different chemical messengers. Enlist endocrine organs and hormones of the body. Enlist the hormones on the basis of chemical nature. Discuss the feedback control of hormone secretion. Explain the up and down regulation of receptors. Enlist the location of hormone receptors.	Biochemistry	Introduction to Endocrinology

	Explain the mechanism of intracellular signaling after		
	hormone receptor activation.		
	Name the hormones that use enzyme-linked hormone		
	receptors signaling.		
	Explain the mechanism of enzyme linked receptors.		
	Explain the mechanism of hormones that receptors		
	present in cytoplasm and nucleus (act on genetic		
	machinery).		
	Enlist second messenger mechanisms for mediating		
	intracellular hormonal functions.		
	Define second messenger system.		
	Explain the adenylyl cyclase– cAMP Second Messenger		
	System.		
	Enumerate the hormones that use the adenylyl cyclase–		
	cAMP Second Messenger System.		
	Explain The cell membrane phospholipid second		
	messenger System.		
	Enumerate the hormones that use cell membrane		
	phospholipid second messenger system.		
	Explain the mechanism of calcium Calmodulin system.		
EnR-B-002	Describe the features of Signal transduction Describe	Biochemistry	Signal
LIIN-D-002	different types of receptors	Diochemistry	Transduction
EnR-B-003	Discuss the classification of hormones	Biochemistry	Classification of hormones
	Describe different types of second messengers		
	Differentiate the G protein and non-G protein mediated		
	pathways of signal transduction		
	Discuss the hormones which act through: Cyclic AMP		
EnR-B-004	(Adenosine monophosphate)		
	Discuss the hormones which act through: Cyclic GMP	Biochemistry	Second messengers
	(guanosine monophosphate)		messengers
	Discuss the hormones which act through calcium		
	phosphoinositol		
	Describe the Receptor tyrosine kinase pathway of signal		
	transduction		

	Explain the Serine threonine kinase pathway of signal		
	transduction		
	Discuss the Nuclear Receptor mediated pathway of		
	signal transduction		
	Describe the Receptor coupled to Jak Stat pathway of		
	signal transduction		
	Explain the control and negative feedback mechanism of	D: 1 : 1	
	hormone regulation	Biochemistry	
	Discuss the biosynthesis, secretion, mechanism of action		
	and metabolic functions of Insulin, glucagon,		
	epinephrine, cortisol, thyroid and growth hormone with	Biochemistry	
	special reference to carbohydrate, protein and lipid		
	metabolism		
	Interpret disorders of hormones on the basis of sign,	Biochemistry	
	symptoms and given data	Diocricinistry	
EnR-B-005	Explain the synthesis, secretion, transport and clearance	Biochemistry	Synthesis of
LIII & OOO	of steroid and protein hormones.	Biodifernious	Hormones
	Enlist the steps in the synthesis of adrenocortical		
	hormone. Explain the synthesis and secretion of ACTH		Synthesis of
EnR-B-006	(Adrenocorticotropic hormone) in association with	Biochemistry	ACTH & adrenocortical
	melanocyte-stimulating hormone, lipotropin, and		adicilocortical
	endorphin.		
	Explain the structure, biosynthesis, secretion, transport,		Synthesis of
EnR-B-007	regulation, catabolism, mechanism of action and	Biochemistry	testosterone, progesterone
	biochemical role of testosterone, progesterone and	-	and estrogen
	estrogen Discuss the role of steroid hormones in oral		
EnR-B-008	Discuss the role of steroid hormones in oral contraception, Infertility	Biochemistry	Steroid in infertility
	Define the following terms: chromosome, allele		mortality
	(dominant and recessive), gene, locus, heterozygote,		
EnR-B-009	homozygote, hemizygous, autosome, genotype,		
	phenotype, haploid and diploid number of chromosomes,	Dia da anciatan	Nomenclature of genetics
	aneuploidy, proband, proposita, pedigree, propositus,	Biochemistry	
	penetrance, codominance and polygenic		
	1 73		

EnR-B-010	Discuss the structures of genes, how they are organized and regulated.	Biochemistry	Genes
E. D. D. 044	Describe Mendelian Law of Segregation and Law of	Disabassistas	Mendelian
EnR-B-011	Independent Assortment.	Biochemistry	laws
	Describe the patterns of inheritance characteristic of		
EnR-B-012	autosomal dominant, autosomal recessive, X- linked	Biochemistry	Patterns of inheritance
	dominant, X-linked recessive and mitochondrial traits.		
EnR-B-013	Interpret genetic symbols as they appear in pedigrees.	Biochemistry	Pedigrees
	Analyze pedigree to determine the mode of inheritance of		
	following traits:		
	1) X-linked recessive (Duchenne Muscular		
F., D. D. 04.4	dystrophy)	Dia da anciatan	Mode of
EnR-B-014	X-linked dominant (Rickets)	Biochemistry	inheritance
	3) Autosomal recessive (Xeroderma Pigmentosum)		
	4) Autosomal dominant (Huntington's Disease))		
	Mitochondrial disorder (Mitochondrial diabetes)		
E D D 045	Discuss different structural and numerical chromosomal	D: 1	Chromosomal
EnR-B-015	abnormalities.	Biochemistry	abnormalities
F., D. D. 040	Interpret the normal human karyotype in terms of number	Dia da anciatan	1/
EnR-B-016	and structure of chromosomes.	Biochemistry	Karyotypes
	Describe the effect of the following chromosomal		
E D D 047	mutations on a segment of DNA:	D. 1	NA (()
EnR-B-017	point mutation, frameshift mutation, deletion, insertion,	Biochemistry	Mutations
	inversion, Robertsonian Translocation and mosaicism.		
C.D.D.040	Discuss the concept of central dogma from gene to	Diachamiatmy	Control do amo
EnR-B-018	protein	Biochemistry	Central dogma
	Describe in detail all the steps in prokaryotic DNA		
	replication with emphasis on: Different proteins required,		Prokaryotic
EnR-B-019	Primers, DNA polymerase; their different components	Biochemistry	DNA
	and functions, Initiation, elongation and termination of		replication
	replication, Topoisomerases		
	Describe in detail all the steps in Eukaryotic DNA		Eukaryotic
EnR-B-020	replication with emphasis on differences between Pro-	Biochemistry	DNA
	and Eukaryotes		replication

	Discuss telomeres and Telomerase and their clinical		Telomeres
EnR-B-021			and
	significance		Telomerase
EnR-B-022	Describe DNA repair, mutation and cancers		
	Interpret Xeroderma pigmentosa on basis of sign		DNA Repair
	/symptoms and data		
	Explain the transcription in prokaryotes focusing on the		
	following key points; RNA polymerase, its components		Transcription
EnR-B-023	and functions, Initiation, elongation and termination of		in prokaryotes
	transcription.		prondryotoo
	Illustrate the transcription in eukaryotes focusing on the		Transcription
EnR-B-024	differences between pro- and eukaryotic replication		in Eukaryotes
			post
EnR-B-025	Discuss post transcriptional modifications		transcriptiona
			modifications
E-D D 000	Describe the role of Wobble hypothesis in codon		Wobble
EnR-B-026	recognition by tRNA		hypothesis
E D D 007	Interpret the translation focusing on the following key		T 1.0
EnR-B-027	points: Initiation, elongation and termination	Biochemistry	Translation
E D D 000	Describe Post-translational modification of proteins		Post-
EnR-B-028	Illustrate RNA dependent synthesis of RNA and DNA		translational modification
	Discuss the gene expression especially Lac operon and		
	Tryptophan operon		
EnR-B-021	Discuss the regulation of eukaryotic gene expression with		Gene Expression
	special emphasis on iron metabolism and RNA	Biochemistry	Expression
	interference		
	Discuss the following Recombinant DNA techniques with		
	reference to their principles, procedures and application:		
	1) PCR (Polymerase Chain Reaction)		
EnR-B-022	RFLP (Restriction Fragment Length Polymorphism)		
	3) Cloning	Biochemistry	Techniques
	4) Human Genome Project	,	'
	5) Blotting Techniques		
	6) DNA (Deoxyribose Nucleic Acid) sequencing		
	7)		
	·		

	PRACTICAL		
CODE	BIOCHEMISTRY	TOTAL HOUR	S = 06+02=08
0002	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	ТОРІС
EnR-B-023	Demonstrate DNA extraction	Biochemistry	DNA
EnR-B-024	Demonstrate Gel Electrophoresis	Biochemistry	Electrophoresis
EnR-B-025	Demonstrate PCR	Biochemistry	PCR
EnR-B-026	Demonstrate ELISA (enzyme-linked immunoassay) to measure concentration of hormones	Biochemistry	ELISA
EnR-P-016	Perform Pregnancy test	Physiology	Pregnancy test
	PATHOPHYSIOLOGY AND PHARMACOTHERAPE	UTICS	
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL H	OURS = 02
	3. 23. 13 2	DISCIPLINE	ТОРІС
EnR-Ph-001	Explain the mechanism of action of thyroxine Explain Clinical uses and potential adverse effects with	Pharmacology	Anti thyroid substance &
1	use of Thyroxine		MOA, uses, effects
CODE		TOTAL H	
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL H	effects
CODE EnR-Pa-001			effects
	SPECIFIC LEARNING OBJECTIVES Enumerate clinical manifestations along with hormone levels of anterior pituitary	DISCIPLINE	effects IOURS = 12 TOPIC Pathology of Anterior
EnR-Pa-001	SPECIFIC LEARNING OBJECTIVES Enumerate clinical manifestations along with hormone levels of anterior pituitary Classification of pituitary adenomas Enumerate and describe posterior pituitary syndromes (inappropriate ADH (Anti Diuretic Hormone) secretion,	DISCIPLINE Pathology	effects IOURS = 12 TOPIC Pathology of Anterior Pituitary Gland Pathology of Posterior

Thyroiditis

Pathology

significant subtypes of thyroiditis

i. Hashimoto Thyroiditis

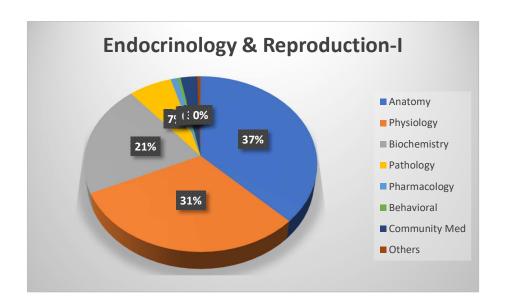
ii. Granulomatous Thyroiditis

EnR-Pa-003

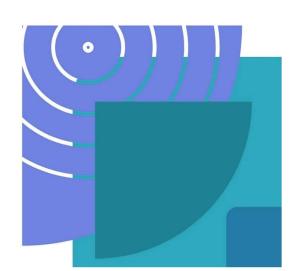
EnR-Pa-004	Describe the pathogenesis & salient morphological features of Grave's Disease Describe the pathogenesis & salient morphological features of Diffuse and Multinodular goiter	Pathology	Grave's Disease
EnR-Pa-005	Enumerate causes of hypo and hyperthyroidism along with levels of thyroid hormones	Pathology	Pathology of Thyroid Gland
EnR-Pa-006	Enumerate causes of hypercalcemia, hyper and hypoparathyroidism Describe the histopathological features of parathyroid hyperplasia	Pathology	Pathology of Parathyroid Gland
EnR-Pa-007	Give etiological Classification of DM (Diabetes Mellitus) Differentiating features of DM-I and DM-II on the basis of pathogenesis, clinical features, diagnosis and complications	Pathology	Pathology of Endocrine Pancreas Gland
EnR-Pa-008	Enumerate causes of Cushing syndrome with lab investigations Causes and clinical features of adrenocortical insufficiency (Addison disease)	Pathology	Pathology of Adrenal Gland
EnR-Pa-009	Describe the morphological features of inflammatory disorders of breast.		Breast
	Enumerate the infectious agents that cause the lower genital tract infections and PIDs along with lab investigations	Microbiology	
EnR-Pa-010	Enumerate causes of infertility in females along with hormonal investigations Causes of dysfunctional uterine bleeding with histopathological features Pathophysiology and lab diagnosis of eclampsia and preeclampsia Causes of placental implantations (ectopic pregnancy)	Pathology	Female Reproductive Pathology

EnR-Pa-011	Enumerate causes of inflammation of male genital tract Causes of male infertility with semen analysis Describe pathological features of testicular torsion	Pathology	Male Reproductive Pathology
	DISEASE PREVENTION AND IMPACT		
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 05	
CODE	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	ТОРІС
	Define Diabetes Mellitus according to WHO (World Health Organization) criteria		
	Classify types of Diabetes Mellitus		
EnR-CM-001	Describe epidemiological risk factors for Diabetes	Community Medicine and	Diabetes
	Epidemiological distribution & statistics of DM	Public Health	
	Screening of community for Diabetes		
	Apply levels of prevention for control of Diabetes.		
EnR-CM-002	Classify types of genetic disorders common in community. Describe health promotional measures to control genetic diseases. Describe screening programs for community to prevent genetic disorders. Apply levels of preventive and social measures for control of genetic abnormalities.	Community Medicine	Genetics
EnR-CM-003	Define women health and life cycle approach for health-related events. Highlight statistics related to human reproductive health issues. Enumerate health related problems across a woman's reproductive lifetime. Explain the components of reproductive health.	Community Medicine	Reproductive health

CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 1		
		DISCIPLINE	TOPIC	
EnR-BhS-001	Discuss common sexual dysfunctions and their prevalence, with emphasis on culture bound syndromes. Identify the various biological, psychological, and relational factors that can contribute to sexual difficulties. Discuss barriers to seek help. Discuss the importance of person centered and nonjudgmental approach when discussing sexual health concerns. Explain the ethical obligations of healthcare professionals in respecting patient confidentiality and informed consent when addressing sexual health issues.	Behavioral Sciences	Sexual difficulties and Medical Practices	
AGING				
CODE	THEORY	TOTAL HOURS = 01		
	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	TOPIC	
EnR-Ag-001	Enlist the changes that occur in female body after menopause.	Gynae/ OBS	Menopause	



Module Weeks	Recommended Minimum Hours
07	197



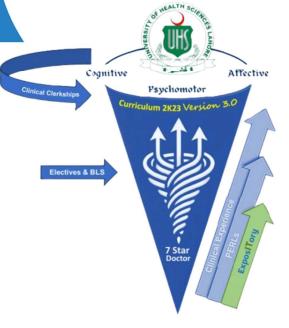


MODULE-09 HEAD & NECK, SPECIAL

SENSES

Modular Integrated Curriculum 2K23

version 3.0



MODULE RATIONALE

The second year MBBS students will have a detailed understanding of the anatomy, physiology, and clinical aspects of the Head and Neck, Special Senses. This knowledge is critical for the diagnosis and treatment of a wide range of diseases associated with these senses.

This module covers the important structures and functions of the Head & Neck, eye, ear, tongue, nose, as well as the pathologies and treatments associated with them. This includes common conditions such as cataracts, glaucoma, aging changes, hearing loss, tinnitus, otitis media, olfactory disorders.

Additionally, the special senses module includes training in relevant clinical examination skills, such as ophthalmoscopy, otoscopy, rhinoscopy, and vestibular testing. These skills are essential for identifying and diagnosing special senses conditions, and for monitoring the effectiveness of treatments.

An understanding of these structures is important for the general practice of medicine as they play a critical role in the overall health and well-being of patients. For example, vision and hearing loss can lead to a decline in cognitive function and social isolation, while smell and taste disorders can affect appetite and nutrition.

MODULE OUTCOMES

- Integrate the anatomical and pathophysiological aspects of the Head & Neck, eye, ear, nose, tongue, vestibular system and the neural pathways, receptors involved in their function with the clinical aspects.
- Develop the ability to identify and diagnose common pathologies such as cataracts, glaucoma, age-related degeneration, hearing loss, impacted wax, otitis media and olfactory disorders.
- Demonstrate the clinical examination (simulation) skills necessary for the assessment of special senses, such as ophthalmoscopy, otoscopy, rhinoscopy, and vestibular testing.
- Differentiate the differential diagnosis and options available for special senses conditions, including medical, surgical, and rehabilitative approaches.
- Illustrate awareness of the impact on overall health and well-being, the importance of preventing and early detection of related disorders.
- Develop the ability to communicate effectively with patients and their families, including explaining diagnosis and treatment options, and providing emotional support.
- Practice the attitude to work in a multidisciplinary team, collaborating with other healthcare professionals to provide comprehensive care for patients.

Equip themselves with the ability to appreciate the significance of lifelong learning and professional development to keep up with latest advances in the clinical field.

THEMES

- Vision
- Hearing
- Taste
- Olfaction
- Head & Neck

CLINICAL RELEVANCE

- Glaucoma
- Cataract
- Night Blindness
- Conjunctivitis
- Impacted Wax
- Otitis Media
- Otomycosis
- Glue Ear
- Rhinitis

IMPLEMENTATION TORS

- The time calculation for completion of modules and blocks is based on 35 hours per week.
 Total hours of teaching, learning and formative/summative internal assessment to be completed in a year are 1200.
- The hours mentioned within each module are the mandatory minimum required. The rest of the hours are left to the discretion of the institution that can be used in teaching, learning and assessment as per decision of the institutional academic council.
- The content and the intended learning outcomes written are mandatory, to be taught, at the level required, as the end year assessment will be based on these.
- However, the level of cognition can be kept at a higher level by the institution.
- The Table of Specifications provided will be used for the three papers of the Second professional examination. The same table of specifications should be used for the respective three block exams for internal assessment.



NORMAL STRUCTURE THEORY **GROSS ANATOMY TOTAL HOURS = 56** CODE DISCIPLINE **SPECIFIC LEARNING OUTCOMES TOPIC** Define the boundaries and openings of orbital cavity. List orbital contents and structures traversing these openings. In a tabulated manner list the extraocular and intraocular muscles of eyeball giving their nerve supply and actions List and define the movements of eyeball with special reference to orbital and visual axis Describe the functional modalities, course, distribution, branches of oculomotor, trochlear and abducent nerve. Describe the location, roots and Human distribution of ciliary ganglion. Anatomy Describe the course and distribution of optic nerve in reference to visual pathway. Give the effects of its lesions. HNSS-A-Vision 001 Give the clinical correlates of nerves supplying the eyeball and its muscles. Give anatomical justification for Horner's syndrome. Describe the course and branches of ophthalmic artery mentioning its origin and termination. Describe the structure of eyelids, conjunctiva and tarsal glands with their neurovascular supply List the parts of Lacrimal apparatus giving their Human location and anatomical features. Describe the Anatomy nerve supply of lacrimal gland. Describe the location, roots and distribution of Human pterygopalatine ganglia. Anatomy the of Give anatomical structure eyeball Human emphasizing on its three coats and their Anatomy neurovascular supply

	Describe the boundaries of nasal cavity: nasal		
	septum, lateral wall of nose, roof and floor.	Human	
	Give their anatomical features and neurovascular	Anatomy	
	supply.		
	Describe the anatomical features and	Human	
	neurovascular supply of external nose	Anatomy	
HNSS-A-	List the paranasal sinuses giving their locations,		Olfaction
002	openings, neurovascular supply and clinical	Human Anatomy	
	significance.	rilatomy	
	Describe the course and distribution of olfactory		
	nerve in reference to olfactory pathway. Give the	Human Anatomy	
	effects of its lesions.	Anatomy	
	Describe the anatomical features and	Human	
	neurovascular supply of external ear	Anatomy	
	Describe the boundaries, contents, neurovascular	Human	
	supply and communications of middle ear cavity.	Anatomy	
	Describe the parts, anatomical features and	Human	
HNSS-A-	neurovascular supply of internal ear.	Anatomy	Hearing
003	Describe the course and distribution of		
	vestibulocochlear neve mentioning the effects of its	Human	
	lesion.	Anatomy	
	Describe auditory pathway.		
	Describe the anatomical features of tongue with		
	emphasis on its mucosa, attachments, musculature,	Human Anatomy	
	vascular supply and lymphatic drainage.	7 materity	
	Describe the nerve supply of tongue (general		
	sensory, special sensory and motor) with reference	Human Anatomy	
	to their lesions and embryological basis.	rilatomy	
HNSS-A-	List taste buds mentioning their structure, location		Taste
004	and nerve supply.	Human Anatomy	
	Describe the taste pathway.	, matering	
	Discuss lesions of motor and sensory nerves		
	supplying the tongue. Discuss the anatomical	Human	
	correlates of lingual carcinoma in reference to	Anatomy	
	lymphatic drainage of tongue.		

	Describe the features of Norma Frontalis, Norma		
	Verticalis, Norma Parietalis, Norma occipitalis and	Human	
	Norma Basalis	Anatomy	
	Describe the features of Norma lateralis: temporal,		
HNSS-A- 005	infratemporal & pterygopalatine fossae giving their	Human Anatomy	Skull
	boundaries, contents and communications.	Anatomy	
	Discuss the sutures and fontanelles of skull, their	Human	
	age changes and clinical significance.	Anatomy	
	List the layers of scalp and describe the anatomical		
	features with neurovascular supply and lymphatic	Human Anatomy	
HNSS-A-	drainage of scalp.		Scalp
006	Give anatomical justification of spread of scalp	11	Ocalp
	infections, profuse bleeding in superficial scalp	Human Anatomy	
	lacerations, gaping of scalp wounds and black eye.		
	Enlist in tabulated manner the muscles of facial		
HNSS-A-	expression and mastication, giving their nerve	Human	Muscles of facial
007	supply and actions.	Anatomy	expressions
	Define modiolus.		
	Describe the functional modalities, course,		
	branches, and distribution of cranial nerves	Human	
	innervating the face (sensory and motor): trigeminal	Anatomy	
	and facial nerves		
HNSS-A-	Describe the vascular supply and lymphatic	Human	Neurovascular
008	drainage of face.	Anatomy	supply of face
	Draw a diagram to illustrate cutaneous innervation	Human	
	of face.	Anatomy	
	Discuss anastomoses of facial artery with	Human	
	contralateral vessels and branches of internal	Anatomy	
	carotid artery with their clinical significance.		
HNSS-A-	Describe the danger area of face with it its clinical	Human	
009	significance. Define the routes of spread of infection	Anatomy	Danger area
	from face and scalp to intracranially.		
	Describe the bony features and muscle attachment	Human	Mandible.
	of mandible.	Anatomy	

HNSS-A-	Classify temporomandibular joint mentioning its		
010	ligaments, relations, nerve supply and movements	Human	
	(with their mechanics and muscles producing them).	Anatomy	
	Describe anatomical features, relations and		
	neurovascular supply of parotid gland and its duct,	Human	
	mentioning the structures entering and exiting the	Anatomy	
HNSS-A-	gland		Parotid gland
011	Discuss the clinical correlates of parotid gland:		
	parotiditis, Mumps, Frey's syndrome, parotid duct	Human	
	stones and parotid tumor surgery with its	Anatomy	
	complications		
HNSS-A-	Describe the parts and boundaries of oral cavity and	Human	\\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
012	give its relation to the Waldeyers' ring.	Anatomy	Waldeyers' ring
HNSS-A-	Describe the anatomical features of hard and soft	Human	lland and a ft
013	palate with their neurovascular supply.	Anatomy	Hard and soft
	Describe anatomical features, relations and		Submandibular
HNSS-A- 014	neurovascular supply of submandibular and	Human Anatomy	Sublingual
014	sublingual glands with their ducts.	Anatomy	glands
HNSS-A-	Describe the location, roots and distribution of otic	Human	Otic and
015	and submandibular ganglia.	Anatomy	Submandibular ganglia.
HNSS-A-	Describe the anatomical features of Hyoid bone and	Human	I braid bana
016	give attachments on the bone.	Anatomy	Hyoid bone
	Enumerate the types of cervical vertebrae and list		
	the differences between them.	Human	
	Describe the anatomical features and attachments	Anatomy	
HNSS-A- 017	on cervical vertebrae.		cervical vertebrae
	Classify the joints of cervical vertebrae mentioning		Vertebrae
	their ligaments, movements with muscle producing	Human Anatomy	
	them and neurovascular supply.	ruidioniy	
HNSS-A-	List the prevertebral muscles of cervical region.	Human	Prevertebral
018	Describe their attachments, actions and innervation.	Anatomy	muscles
11000 4	Enumerate parts of deep cervical fascia with their		D-1
HNSS-A- 019	respective extents, attachments, relations and	Human Anatomy	Deep cervical fascia
	contents.	, 	

	Describe the facial spaces in head and neck		
HNSS-A-	mentioning their communications and their relation	Human	Facial spaces
020	to spread of infection.	Anatomy	·
HNSS-A-	Describe the attachments, actions and nerve supply	Human	Infrahyoid and
021	of infrahyoid and suprahyoid muscles of neck.	Anatomy	suprahyoid muscles
HNSS-A-	Describe the location, formation and distribution of	Human	
022	ansa cervicalis.	Anatomy	Ansa cervicalis.
HNSS-A-	Describe the attachments, actions and nerve supply	Human	Sternocleidoma
023	of sternocleidomastoid and trapezius.	Anatomy	stoid and trapezius
HNSS-A-	Describe the boundaries and contents of	Human	Triangles of
024	suboccipital, anterior and posterior triangles of neck.	Anatomy	neck
HNSS-A-	Describe the cervical part of trachea and esophagus	Human	Trachea and
025	with their neurovascular supply.	Anatomy	esophagus
	Describe the location, anatomical features and		Thyroid,
HNSS-A- 026	vascular supply of thyroid and parathyroid glands.	Human Anatomy	Parathyroid
020	List the variations in location of parathyroid glands.	rilatomy	glands
HNSS-A-	Describe the carotid arteries mentioning their origin,	Human	Caratid arterios
027	course, branches, distribution and termination.	Anatomy	Carotid arteries
HNSS-A-	Describe carotid body and carotid sinus and give	Human	Carotid body
028	their clinical significance.	Anatomy	Carolid body
	Give the venous drainage of Head and Neck region.		
HNSS-A-	Describe the formation, tributaries and area of	Human	Head & Neck
029	drainage of vessels constituting jugular venous	Anatomy	venous supply
	system.		
HNSS-A-	Name the superficial and deep cervical lymph nodes	Human	Lymphatics
030	and give their location and drainage areas	Anatomy	Lymphatics
HNSS-A-	Describe the location, formation, branches,	Human	Cervical plexus
031	distribution and lesions of cervical plexus	Anatomy	Cervical plexus
	Name the parts of pharynx giving their extent,		
HNSS-A-	anatomical features, structure and neurovascular	Human Anatomy	
	supply.	,	- Pharynx
032	Name the pharyngeal constrictor muscles defining		I Halylla
	their attachments, innervation and structure	Human Anatomy	
	traversing the gaps between adjacent muscles.	··· ,	

HNSS-A- 033	Name the parts of larynx giving their extent, anatomical features, musculoskeletal framework and neurovascular supply.	Human Anatomy	Larynx
HNSS-A- 034	Discuss the location, anatomical features, relations and vascular supply of tonsils: nasopharyngeal, palatine and lingual.	Human Anatomy	Tonsils
CODE	EMBRYOLOGY & POST-NATAL DEVELOPMENT	TOTAL H	OURS = 15
	SPECIFIC LEARNING OUTCOMES	DISCIPLINE	ТОРІС
HNSS-A- 035	List the components of pharyngeal apparatus. Describe the development of pharyngeal arches, grooves, pouches and membrane and give derivatives and fate of each of them.	Embryology	Pharyngeal apparatus pharyngeal arches
HNSS-A- 036	Describe the development and histogenesis of auditory tube, tympanic cavity, tonsils, thymus and parathyroid	Embryology	auditory tube, tympanic cavity, tonsils, thymus and parathyroid
HNSS-A- 037	Discuss the embryological basis of congenital anomalies related to the development of pharyngeal arches, pharyngeal clefts and pharyngeal pouches: cervical sinus/fistula/cyst, 1st arch syndrome, DiGeorge syndrome, congenital malformations of thymus and parathyroid glands	Embryology	Congenital anomalies
HNSS-A- 038	Describe the development of face and nasolacrimal duct and their respective congenital anomalies.	Embryology	Face and nasolacrimal duct
HNSS-A- 039	Describe the development of nasal cavity and paranasal sinuses. Give the associated congenital anomalies.	Embryology	Nose
HNS-A-040	Describe the development of lip and palate and their associated congenital malformations.	Embryology	Lips and palate
	Explain the types and embryologic basis of cleft lip and cleft palate.	Embryology	Lips and palate
HNSS-A- 041	Describe the development of optic vesicle and retina.	Embryology	Eye & ear

	Describe the development of cornea, sclera, choroid, iris, ciliary body and lens and relate it to their respective congenital anomalies.	Embryology	
	Describe the development of internal ear and give the embryological basis of associated congenital anomalies.	Embryology	
CODE	MICROSCOPIC ANATOMY (HISTOLOGY & PATHOLOGY)	TOTAL H	OURS = 08
	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	ТОРІС
HNSS-A- 042	Describe the light and electron microscopic structure of tongue mentioning the histological structure of lingual papillae and taste buds.	Histology	Tongue
HNSS-A-	Describe the histological structure of parotid, submandibular and sublingual glands.	Histology	Glands
043	Compare and contrast the histological structures of parotid, submandibular and sublingual glands.	Histology	0.4
HNSS-A- 044	Differentiate between serous and mucous acini. Describe the structure and location of serous demilunes. Describe the serous and mucous acini and give histological differences between the two.	Histology	Head & Neck
LINICO	Describe the histological structure of layers of eyeball, eyelid and retina.	Histology	Eye
HNSS-A- 045	Describe the light and electron microscopic structure of cornea.	Histology	,
HNSS-A- 046	Describe the histological and ultramicroscopic structure of internal ear with special reference to Organ of Corti.	Histology	Ear
	PRACTI È AL		
CODE	HISTOLOGY	TOTAL H	OURS = 09
CODE	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	ТОРІС

HNSS-A- 047	Identify, draw and label diagrams to show histological structure of tongue, lingual papillae and taste buds.	Histology	tongue
HNSS-A- 048	Draw and label diagrams to show histological structure of serous demilunes, serous and mucous acini.	Histology	Head & Neck
	Draw and label diagrams to show histological structure of eyelid and cornea.	Histology	
HNSS-A- 049	Draw and label a diagram to show histological structure of retina. List its histological layers and their respective components	Histology	Eye
HNSS-A- 050	Draw and label a diagram to show histological structure of internal ear.	Histology	Ear

NORMAL FUNCTION

THEORY

CODE	MEDICAL PHYSIOLOGY	TOTAL HOURS = 30	
	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	TOPIC
	Define and describe the visual acuity	Physiology	
	Define Emmetropia	Physiology	
	Enlist the errors of refraction	Physiology	Visual Acquity
HNSS-P- 001	Explain the cause, features, physiological basis, and correction of Hyperopia	Physiology	
	Explain the cause, features, physiological basis, and correction of myopia	Physiology	
	Explain the cause, features, physiological basis, and correction of astigmatism	Physiology	
	Describe the pathophysiology and treatment of cataract	Integrate with Ophthalmology	
HNSS-P- 002	Interpret common treatment modalities for Refractive errors	Integrate with Ophthalmology	Refractive Errors

	Describe the mechanism of formation and outflow of aqueous humor	Physiology	
HNSS-P- 003	Describe normal value of intraocular pressure and its regulation	Physiology	Fluid systems of the Eye
	Describe the method for measuring the intraocular pressure	Integrate with Ophthalmology	
	Discuss the clinical features of Open Angle and		
HNSS-P-	Angle Closure Glaucoma	Integrate with	
004	Describe the causes and features and	Ophthalmology	Glaucoma
	pathophysiology of glaucoma		
	Describe the physiological anatomy and function of		
	structural elements of retina		
	Enlist different layers of retina		
	Explain the significance of melanin pigment in retina		
	Describe macula and foveal region of retina and	Physiology	Retina
	their significance		
LINCO D	Describe the structure of rods and cones		
HNSS-P- 005	Comment on the location of optic disc and its significance		
	Describe the cause, features, and treatment of		
	retinal detachment		
	Differentiate the Visual Pathway from the Cones to		
	the Ganglion Cells and from rods to the ganglion		
	cells		
	Enlist the current investigations for Retinal Diseases	Integrate with Ophthalmology	
	Describe the rhodopsin-retinal visual cycle	Physiology	
	Describe the mechanism of excitation of rods/ rods	Physiology	Photochemistry
HNSS-P- 006	receptor potential	i ilysiology	of vision
	Describe the causes and treatment of night	Physiology	
	blindness	, olology	
	Define and describe different mechanisms of light	Physiology	Adaptation
	adaptation	, 5.5.09,	

HNSS-P- 007	Define and describe different mechanisms of dark adaptation	Physiology	
	Enumerate the diseases leading to Night Blindness and retinal detachment	Integrate with Ophthalmology	
	Explain the tri color mechanism of color determination	Physiology	
HNSS-P-	Define term protanopes, deuteranopes, tritanopes	Physiology	Color vision
800	Enlist the types of color blindness and their causes	Physiology	
	Enlist clinical features of Color vision deficiencies	Integrate with Ophthalmology	
	Trace the visual pathway		
HNSS-P- 009	Enlist and describe the abnormalities of visual pathway & visual field	Physiology	Visual Pathways
	Explain the effect of removal of primary visual cortex		
111100 5	Define the physiological blind spot and describe its location	Physiology	Field of vision
HNSS-P- 010	Define scotoma/ pathological blind spot and enlist causes	Physiology	
HNSS-P- 011	Illustrate the abnormalities of field of vision	Integrate with Ophthalmology	Visual fields
HNSS-P- 012	Describe the muscular and neural control of eye movements	Physiology	Eye movements
HNSS-P- 013	Define and enlist the types of Strabismus	Integrate with Ophthalmology	Strabismus
	Explain the mechanism of accommodation	Physiology	
HNSS-P- 014	Enlist the components of near response in accommodation	Physiology	
	Describe the neural pathway for accommodation reflex	Physiology	Accommodation
	Describe the regulation of accommodation	Physiology	
	Enlist the clinical features of Presbyopia	Integrate with Ophthalmology	
	Trace the neural pathway for pupillary light reflex	Physiology	Pupillary light
HNSS-P- 015	Explain the pupillary light reflexes or reactions in CNS diseases	Physiology	reflex

	Describe the cause and features of Horner syndrome	Physiology	
	Illustrate the differential diagnosis of Anisocoria	Integrate with Ophthalmology	
	Describe the physiological anatomy of outer and middle ear	Physiology	
	Enlist the functions of middle ear	Physiology	
	Discuss clinical features and treatment of impacted wax	Integrate Otorhinolaryng ology	Sense of
HNSS-P- 016	Define causes and clinical features of Otomycosis	Integrate Otorhinolaryng ology	hearing
	Describe the mechanism of impedance matching and its significance	Physiology	
	Describe the mechanism of attenuation reflex and its significance	Physiology	
HNSS-P-	Describe the physiological anatomy of inner ear	Physiology	Inner Ear/
017	Describe the mechanism of transmission of sound waves in cochlea	Physiology	Cochlea
HNSS-P-	Describe the physiological anatomy and function of organ of Corti	Physiology	Organ of Costi
018	Describe the mechanism of generation of endo- cochlear potential and its significance	Physiology	Organ of Corti
	Write down the normal range of frequency for hearing	Physiology	
HNSS-P- 019	Describe the role of place principle in determination of sound frequency	Physiology	Determination of sound frequency
	Describe the role of volleys principle in determination of sound frequency	Physiology	
HNSS-P- 020	Discuss determination of loudness of sound		Determination of Loudness
HNSS-P-	Trace the normal auditory nervous pathway	Physiology	
	Describe the types of deafness	Physiology	Auditory
021	Discuss the clinical features and investigations of Congenital and Acquired hearing loss	Integrate with Otorhinolaryng ology	pathway

	Enlist the primary taste sensations	Physiology	
HNSS-P-	Define and explain the term taste blindness	Physiology	Sense of Taste
022	Describe the physiological anatomy and location of taste buds	Physiology	
HNSS-P- 023	Describe the mechanism of stimulation of taste buds/ receptor potential	Physiology	Excitation of Taste buds
020	Trace the pathway of taste sensation	Physiology	
HNSS-P- 024	Define and explain the terms: Ageusia, Hypergeusia, Hypogeusia and dysgeusia	Physiology	Abnormalities of Taste sensations
024	Describe the senile changes in taste buds		Tooks
HNSS-P- 025	Explain the terms: Taste preference and taste aversion	Physiology	Taste preference and aversion
	Enlist the primary sensations of smell	Physiology	
HNSS-P- 026	Describe the physiological anatomy and location of olfactory membrane Explain the mechanism of excitation of olfactory cells, membrane potential and action potential on olfactory cells Discuss the Adaptation of olfactory sensations Discuss the transmission of smell signals in the the CNS	Physiology	Sense of smell
HNSS-P-	Enlist the causes and clinical features of Rhinitis	Integrate with Otorhinolaryng ology	Rhinitis
027	Differentiate between viral and allergic Rhinitis	Integrate with Otorhinolaryng ology	Tallindo
CODE	MEDICAL BIOCHEMISTRY	TOTAL H	IOURS = 7
CODE	SPECIFIC LEARNING OBJECTIVES	DISCIPLINE	ТОРІС
	Discuss the metabolism of mono and disaccharides	Biochemistry	Metabolism of
HNSS-B- 001	Interpret Hereditary fructose intolerance, fructosuria, galactosemia and lactose intolerance, in relevance to the clinical findings	Biochemistry	mono and disaccharides

Explain the Polyol pathway and effect of hyperglycemia on sorbitol pathway	Biochemistry
Discuss the sources, metabolically active forms,	
biochemical role and clinical correlation of Vit-A with	Biochemistry
vision	

PRACTI**L**AL

CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL HOURS = 16+05=21		
3332	0. 20. 10 22ARRING 0302011123	DISCIPLINE	TOPIC	
HNSS-P- 028	Examine the Second, Third, Fourth & Sixth Cranial Nerves		Cranial Nerves	
HNSS-P- 029	Examination of Light Reflex	Physiology	Light reflex	
HNSS-P- 030	Determine the Visual Acuity for Far and Near vision		vision	
HNSS-P- 031	Perform Ophthalmoscopy		ophthalmoscopy	
HNSS-P- 032	Examine Field of Vision and interpretation of visual field plotted		Visual field	
HNSS-P- 033	Examine Color Vision	Physiology	Color vision	
HNSS-P- 034	Perform Tuning fork test and audiometry, interpret the report		Ear	
HNSS-B- 002	Interpretation of insulin and C peptide		Interpretation of results	
HNSS-B- 003	Demonstrate HbA1C	Biochemistry	HbA1C	
HNSS-B-	Detect abnormal constituents in urine by chemical		Abnormal	
004	methods		constituents in urine	
	PATHOPHYSIOLOGY AND PHARMACOTHERAPEUTICS			
	CODE SPECIFIC LEARNING OBJECTIVES DISCIPLINE		OURS = 03	
CODE			ТОРІС	

Pathology

(Microbiology)

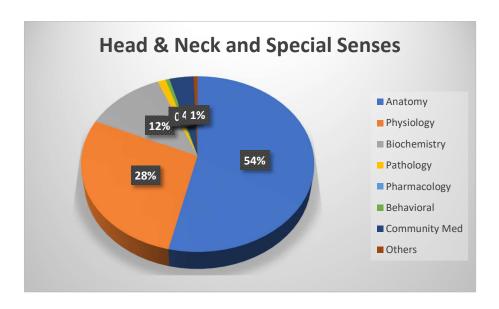
Eye/Ear

infections

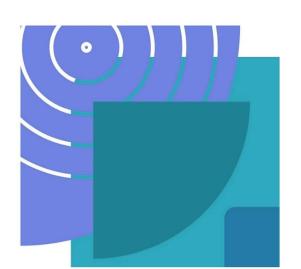
Enlist the common causative agents of Eye, Ear

infections

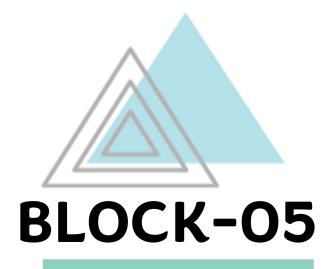
HNSS-Pa-	Discuss the pathogenesis and clinical features of				
001	common pathogens				
DISEASE PREVENTION AND IMPACT					
CODE SPECIFIC LEARNING OBJECTIVES TOTAL HOURS = 06					
		DISCIPLINE	TOPIC		
HNSS-CM- 001	Identify factors leading to noise pollution	Community Medicine/ Otorhinolaryng ology	Hearing loss		
HNSS-CM-	Describe the common causes of blindness in community	Community Medicine	Blindness		
002	Describe risk factors and preventive strategies for blindness at community level				
HNSS-BhS- 001	At end of module the students will learn the psychosocial aspects of pain which will help in understanding the complex and multidimensional nature of pain.	Behavioral Sciences	Pain		
	AGING				
CODE	SPECIFIC LEARNING OBJECTIVES	TOTAL H	OURS = 03		
3332		DISCIPLINE	ТОРІС		
HNSS-Ag- 001	Familiarize with the age-related hearing loss	Otorhinolaryng ology	Deafness		
HNSS-Ag- 002	Discuss the age changes of mandible	Anatomy	Head & Neck		



Module Weeks	Recommended Minimum Hours	
05	158	



SKILL/ACTIVITY PERFORMED SATISFACTORILY	
Signatures of Supervisor	





ENDOCRINOLOGY & REPRODUCTION-1 MODULE Objectives Miller's Pyramid Skill Level Reflected Examination of the thyroid gland Thyroid examination **Shows Examination for Acromegaly** Examination for acromegaly Shows Measurement of blood glucose Shows Blood sugar measurement levels Suturing Suturing *Knows how

❖ These skills are at the 'Knows how' level of the miller's pyramid, meaning thereby that students need not perform them themselves but may develop a perception regarding them by observing performance/working on simulated patients/facilitation with videos.



Dato	Observed:	
Date	Observed.	

()	CHECKLIST FOR THYROID EXAMINATION Some of the following steps/tasks should be performed simultaneously.)	CASES (Minimum 3 Entries)	
STEP/	TASK		
	NG READY: Wash your hands and don PPE if appropriate		
	Introduce yourself to the patient including your name and role Gain consent to proceed with the examination		
5.	Ask the patient to sit on a chair for the assessment Adequately expose the patient's neck and upper sternum Ask if the patient has any pain before proceeding		
	/ACTIVITY PERFORMED SATISFACTORILY		
THE P	ROCEDURE:		
7.	Inspect the patient whilst at rest, looking for clinical signs suggestive of underlying pathology		
8.	Inspect the patient's face for clinical signs suggestive of thyroid pathology (dry skin, excessive sweating, eyebrow loss)		
9.	Inspect the patient's eyes for evidence of lid retraction, inflammation and exophthalmos		
10.	Assess for eye movement abnormalities		
11.	Assess for lid lag		



Signatures of Supervisor		
SKILL/ACTIVITY PERFORMED SATISFACTORILY		
20. Thank the patient		
19. Auscultate each lobe of the thyroid for a bruit		
 Percuss downwards from the sternal notch for evidence of retrosternal dullness 		
17. Inspect for tracheal deviation		
16. Palpate local lymph nodes to assess for lymphadenopathy		
15. Ask the patient to protrude their tongue whilst you palpate		
 Palpate the patient's thyroid gland assessing size, symmetry and consistency. Also note any masses present in the thyroid tissue. 		
13. Ask the patient to protrude their tongue and repeat inspection		
 Inspect the midline of the neck for evidence of thyroid enlargement, lumps or scars 		



Dato	Observed:	
Date	Observed.	

CHECKLIST FOR ACROMEGALY (Some of the following steps/tasks should be performed simultaneously.)		CASES (Minimum 3 Entries)		
STEP	TASK			
THE	PROCEDURE:			
1.	Wash your hands and gain consent from the patient			
2.	Ask the patient if he/she has any pain in any region			
3.	Perform a brief general inspection of the patient, looking for clinical signs suggestive of acromegaly such as: a. Facial features: coarse features, such as prominent supraorbital ridges and prognathism, may be indicative of acromegaly.			
4.	Hands and feet: may be enlarged.			
5.	Skin: may display thickening in the hands and face and excess sweating or oiliness in acromegaly.			
6.	Posture: patients with acromegaly can present with signs of osteoarthritis, especially in the weight-bearing joints (knees and hips).			



7.	Hair growth: hirsutism in women and hypertrichosis may occur.		
Ω	Skin tags: acromegaly can cause an increase in the number		
0.			
^	of skin tags.		
	Gait: acromegaly can cause a rolling gait or varus deformity.		
10.	. Clothes: clothes or jewellery may appear tight if significant		
	weight gain has occurred.		
11.	. Hands:		
	 Inspect for: a. Enlargement: grossly increased size of the hands may be assessed by comparing your hands to the patient are, accounting for natural size differences. b. Wasting: thenar wasting can indicate untreated carpal tunnel syndrome. c. Scars: carpal tunnel release scar may indicate previous median nerve compression. d. Skin changes: skin thickening and excess sweating can occur in acromegaly. e. Finger pricks: finger prick marks on the tips of the fingers may indicate diabetes, which is linked to acromegaly f. Palpation g. Assess for thickening of the patient's skin by pinching the skin overlaying the third metacarpophalangeal joint. This can be compared with your own hand's skin to detect any differences. 		
12.	Axillae: Whilst supporting the patient's arm, inspect each axilla for the following: a. Acanthosis nigricans: darkening (hyperpigmentation) and thickening (hyperkeratosis) of the axillary skin which can be benign (most commonly in dark-skinned individuals) or associated with insulin resistance (e.g., type 2 diabetes mellitus) as a complication of acromegaly. b. Hypertrichosis: increased hair growth can occur as a result of the effects of growth hormone.		
13.	. Palpate for thyroid gland		
14.	. Look for raised JVP		
15	. Face:		
	a. General features:		



c. d.	Inspect the general appearance face for coarse features associated with acromegaly: Frontal bossing: a prominent or protruding brow can occur with excess GH. Large nose, ears, and lower lip: aspects of soft-tissue overgrowth. Prognathism: overgrowth of the jaw can lead to a mandibular protrusion		
16. Mouth	: Inspect the inside of the mouth for the following:		
a.	Macroglossia: tongue enlargement may cause the tongue to appear large for the mouth or even cause visible partial airway obstruction in extreme cases.		
b.	Wide spaced teeth: growth of the soft palate may cause interdental separation of the lower jaw.		
C.	Prognathism: overgrowth of the jaw may only be discernible on closer inspection.		
SKILL/ACTIV	ITY PERFORMED SATISFACTORILY		
Signatures of	f Supervisor		



Date	Observed:				

		T FOR EXAMINATION OF BLOOD GLUCOSE LEVELS of the following steps/tasks should be performed simultaneously.)	CASES (Minimum 3 Entries)			
STEP	/TASI	<				
THE	ROCE	EDURE:				
1.		ain the procedure to the patient and get a verbal consent oceed.				
2.	Gath	er the relevant equipment and place in a clean tray:				
	i. ii. iii. iv. v. vi.	Non-sterile gloves Blood glucose reader (a.k.a. glucometer): calibrate using calibration fluid if required. Spring-loaded lancet: to obtain the blood sample. Testing strips: make sure the expiry date is valid. Gauze Tape				
3.		re the patient's finger is cleaned prior to measuring ary blood glucose:				
	i. ii.	It's important that the skin over the site being tested has been cleaned, as substances on the skin can affect the accuracy of capillary blood glucose results (e.g. substances containing sugar). Ask the patient to wash their own hands or alternatively you can clean the site with an alcohol swab (70% isopropyl).				



		III.	Make sure the skin over the testing site has dried completely before performing capillary blood glucose measurement.		
	4.		on the capillary blood glucose monitor and ensure it is rated.		
	5.	Load	a test strip into the glucose monitor.		
	6.	Don	a pair of non-sterile gloves.		
	7.	Pick	up the lancet and carefully remove the protective cap.		
	8.	sque of blood blood	the side of the patient's finger with the lancet and gently eze the finger from proximal to distal to produce a droplet bod. Some guides advise cleaning away the first drop of d, however, there is no evidence that this significantly cts the reliability of blood glucose results.		
	9.		ly touch the tip of the test strip against the droplet of blood ow it to be absorbed into the strip.		
	10		gauze or cotton wool to the puncture site to stop the ling and ask the patient to maintain pressure over the site		
	11	. Safel	y dispose of the lancet into a sharps bin.		
	12	clinic	ose of the test strip and the cotton wool/gauze into a al waste bin. If the patient's finger is still bleeding, keep otton wool or gauze in place and secure with some tape.		
P	OST	PRO	CEDURE:		
	1.	'Was	h your hands, thank the patient'		
SI	KILL	./ACTI	VITY PERFORMED SATISFACTORILY		
Q i	iana	turos	of Supervisor		



Date Observed:	
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CHECKLIST FOR SIMPLE INTERRUPTED SUTURE (Some of the following			CASES			
s	steps/tasks should be performed simultaneously.)	(Minimum 2 Entries)				
STEP/TASK						
EQUIPMENT:						
Collect a prod	cedure trolley, and clean the top surface using an alcohol surface					
disinfectant w						
will then need	I to collect a number of items.					
For cleaning:						
ii. Fix iii. Ga For anaesthes i. Ak ii. Ak iii. 20 iv. Dr v. Su	pair of sterile gloves. cohol wipe (2% chlorhexidine in 70% alcohol). mL 1% lidocaine solution (with or without adrenaline. rawing up needle (≤18 gauge). ubcutaneous needle (25-27 gauge) and syringe (20mL).					
vi. Sh For suturing:	narps bin.					
<u> </u>						
	uture pack (containing needle holder, scissors, toothed forceps, on-toothed forceps).					
ii. A p	pair of sterile gloves.					
	narps bin.					
iii. Su iv. Ste v. Sh	uture material. erile drape.					



THE PRO	CEDURE:		
i. Ex	plain the procedure to the patient and take consent		
nspectio	<u>n:</u>		
ii.	Assess the size and depth of the wound as well as the state of its border. Inspect for any pus inside which may suggest infection. Ensure that there are no foreign bodies present, such as glass. Finally, check the surrounding skin for any bruising or erythema which may suggest a cellulitis infection.		
Cleaning			
iii.	To clean the wound, take the gauze and soak it in saline solution. Carefully wipe the area starting from the centre of the wound and continuing outwards.		
Anaesthe	<u>esia</u>		
iv.	Before injecting the anaesthetic, confirm with the patient that they have had no previous reactions to local anaesthetic. Once this has been confirmed, clean the surrounding area using an alcohol wipe. Whilst waiting for the skin to dry, draw up the lidocaine solution into the syringe.		
	a) Once ready to inject, switch the needle on the syringe and don some sterile gloves. Using proper technique, inject 2mL of lidocaine solution subcutaneously into the surrounding skin. After doing so, manoeuvre the needle and continue to inject small amounts of anaesthetic such that all of the surrounding skin is anaesthetised. For medium to large wounds, you will need to withdraw the needle and reinject at another area.		
V.	Wash and dry both your hands and the distal third of your forearms and then put the sterile gloves on using correct sterile technique. Allow the anaesthesia at least 5 minutes to work.		
vi.	Carefully position the part of the body with the wound and apply the sterile drape over it. At this point, explain to the patient that it is very important for them to keep still and not touch anything on the sterile field to avoid contamination. a) Using the toothed forceps, pinch the sides of the wound to test for numbness, and ask the patient whether they can feel any pain. Be sure to warn the patient before you do this. The patient		
	may be able to feel a sense of pressure but should not feel any pain.		
vii.	Use the forceps to position the needle in the needle holder so that the needle holder is two-thirds of the way up from the tip of the needle.		



viii.	Hold the needle holder in your dominant hand and the toothed forceps in the other. Starting from the middle of the wound, use the forceps to pull the skin up on the wound side closest to your dominant hand. Insert the needle into the skin on the same side at a 90° angle, at least 5mm from the wound edge.		
ix.	Push the needle through the skin, supinating your forearm to follow the curvature of the needle as you do so. Remove the needle from the needle holder and pull the needle through that side of the wound using the forceps.		
	a) Position the needle back into the needle holder and insert it into the dermis of the other side of the wound, around 5mm below the skin surface. Again, supinate your wrist such that the needle emerges to the skin surface. Pull the needle through such that only 15cm of thread remains on the other side.		
X.	To secure the suture in place, you will need to tie a surgical knot. This is achieved by tying three smaller "throw" knots.		
xi.	1 st throw: Hold the needle holder directly above and parallel to the wound. Wrap the longer end of the thread around the needle holder twice in a clockwise direction and then use the tip of the needle holder to grasp the shorter end of the thread and pull in opposite directions, tying the first throw.		
xii.	2 nd throw: Once again wrap the longer end of the thread around the needle holder, however this time, do so only once and in an anticlockwise direction. Then, as before, use the tip of the needle holder to grasp the shorter end of the thread. Pull the suture material through, tying another throw.		
xiii.	3 rd throw: Tie this throw in a clockwise direction in a similar manner to the 1 st . However, only wrap the thread once around the needle holder.		
xiv.	Once you have completed the three throws, you should have a strong surgical knot. Try to position the knot on one side of the wound. Next, cut both ends of the suture such that there is 5mm of thread on either side. This is so that it is easy to identify the suture. Insert more sutures as required about 5-10mm apart.		
XV.	Once you are finished, dispose of the needle in the sharps bin.		
xvi.	Press lightly on the sides of the wound to stop any bleeding. Once satisfied, remove the drape and your gloves. Arrange for the wound to be dressed using a non-adherent dressing.		
SKILL/A	CTIVITY PERFORMED SATISFACTORILY		
Signatur	es of Supervisor		



HEAD AND NECK, SPECIAL SENSES MODULE Objectives Skill Miller's Pyramid Level Reflected Examination of the nose Nasal examination Shows Examination of neck lumps Neck lump examination Shows

❖ These skills are at the 'Knows how' level of the miller's pyramid, meaning thereby that students need not perform them themselves but may develop a perception regarding them by observing performance/working on simulated patients/facilitation with videos.



Date Observed:

CHECKLIST FOR EXAMINATION OF THE NOSE (Some of the following steps/tasks should be performed simultaneously.)	CASES (Minimum 3 Entries)			
STEP/TASK				
THE PROCEDURE:				
Explain the procedure to the patient and get a verbal consent to proceed.				
Inspection:				
Inspect the external surface of the nose from the front, side and behind the patient to identify any abnormalities. Skin changes: I. Inspect for skin lesions:				
i. Basal cell carcinoma: pearly lesions with telangiectasia and rolled edges. ii. Squamous cell carcinoma: scaly lesions, sometimes with associated ulceration and hyperpigmentation. iii. Keratoacanthoma: raised lesions with a core of scaly keratin.				
II. Deformity i. Inspect for any deviation in the nasal bones or cartilage suggestive of a fracture. This is best performed by standing behind the patient with their head tilted slightly backwards.				



III.	Palpation: i. Warn the patient that you will be applying some pressure to their nose and ask them to let you know if they experience any pain.		
4. Palpat	te the nasal bones assessing:		
i ii	i. Alignmenti. Tendernessi. Irregularity (suggestive of fracture)te the nasal cartilage assessing:		
	i. Alignment i. Tenderness		
	te the infraorbital ridges and assess eye movement if it is a history of trauma to screen for an orbital blowout re.		
ne eye socke xamination	blowout fracture is a fracture of or or medial wall resulting from blunt trauma to et (e.g., tennis ball). Typical findings on clinical include infraorbital tenderness, epistaxis and restricted at (usually on vertical gaze).		
counte	orrect method for using a nasal speculum is slightly er-intuitive, however, it does allow the best zation of the nasal mucosa:		
i.	Insert your index finger into the bend of the speculum and support it above with the thumb.		
ii.	The middle and ring fingers are used to manipulate the prongs of the speculum.		
iii.	You will be aiming to look at the gap between these two fingers.		
iv.	Press the prongs of the speculum together to allow them to be placed within the nostril and then reduce your grip on the speculum to widen the prongs until an optimal view of the nasal cavity is achieved.		
	 a) Nasal vestibule: inspect for inflammation, ulceration or oedema affecting the nasal mucosa. b) Nasal septum: note any polyps, deviation, perforation, haematoma, superficial vessels or areas of cautery. 		



	c) Inferior turbinates: note any asymmetry, inflammation or polyps.		
8.	Place a cold shiny surface, such as a metal tongue depressor under the nose.		
9.	Observe for misting of the metal surface as the patient breathes and compare the misting pattern of the two nostrils.		
SKILL	ACTIVITY PERFORMED SATISFACTORILY		
Signa	atures of Supervisor		



Date	Observed:					

CHECKLIST FOR EXAMINATION OF NECK LUMPS (Some of the following steps/tasks should be performed simultaneously.)	CASES (minimum 2 entries)	
STEP/TASK		
THE PROCEDURE:		
Explain the procedure to the patient and get a verbal consent to proceed.		
Inspect the patient, looking for clinical signs suggestive of underlying pathology:		
i. Scars: may indicate previous neck surgery (e.g. thyroidectomy, lymph node biopsy/excision, radiotherapy related scarring).		
ii. Cachexia: ongoing muscle loss that is not entirely reversed with nutritional supplementation. Cachexia is commonly associated with underlying malignancy.		
iii. Hoarse voice: caused by compression of the larynx due to thyroid gland enlargement (e.g. thyroid malignancy).		
iv. Dyspnoea or stridor: may indicate compression of the upper respiratory tract by a neck mass.		
v. Behaviour: anxiety and hyperactivity are associated with hyperthyroidism (due to sympathetic overactivity). Hypothyroidism is more likely to be associated with low mood.		
vi. Clothing: may be inappropriate for the current temperature. Patients with hyperthyroidism suffer from heat intolerance whilst patients with hypothyroidism experience cold intolerance.		
vii. Exophthalmos: bulging of the eye anteriorly out of the orbit associated with Graves' disease.		



3. Ask the patient to point out the neck lump's location if relevant.		
 Inspect the neck lump from the front and side, noting its location (e.g. anterior triangle, posterior triangle, midline). 		
 If a midline mass is identified during the initial inspection, perform some further assessments to try and further narrow the differential diagnosis. 		
wallowing		
sk the patient to swallow some water and observe the movement of the lass:		
 i. Thyroid gland masses (e.g. a goitre) and thyroglossal cysts typically move upwards with swallowing. ii. Lymph nodes will typically move very little with swallowing. iii. An invasive thyroid malignancy may not move with swallowing if tethered to surrounding tissue. 		
ongue protrusion		
sk the patient to protrude their tongue:		
 i. Thyroglossal cysts will move upwards noticeably during tongue protrusion. ii. Thyroid gland masses and lymph nodes will not move during tongue protrusion. 		
urther Assessment		
 If you identify a midline neck lump or systemic signs indicative of thyroid disease, ask the examiner if a full thyroid status examination should be performed. 		
5. Palpate the neck lump assessing the following:		
 i. Site: assess the lump's location in relation to other anatomical structures (e.g. anterior triangle, posterior triangle, midline). ii. Size: assess the size of the lump. iii. Shape: assess the lump's borders to determine if they feel 		
regular or irregular. iv. Consistency: determine if the lump feels soft (e.g. cyst), hard (e.g. malignancy) or rubbery (e.g. lymph node). v. Mobility: assess if the lump feels mobile or is tethered to other		
local structures. Asking the patient to turn their head as you		

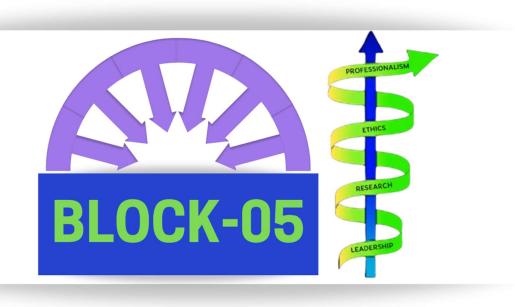


Signat	ures of Supervisor		
SKILL	ACTIVITY PERFORMED SATISFACTORILY		
	Submandibular gland swellings are usually singular, whereas lymphadenopathy typically involves multiple nodes). Salivary duct calculi are relatively common and may be felt as a firm mass within the gland.		
	Each submandibular gland can be palpated inferior and posterior to the body of the mandible. Move inwards from the inferior border of the mandible near its angle with the patient's head tilted forward. To assess the gland thoroughly, you should perform bimanual palpation with one gloved finger palpating the floor of the mouth whilst the other palpates externally underneath the mandible.		
	Assess cervical lymph nodes and thyroid gland as explained in previous checklists Assess the submandibular gland if a swelling is found in that area.		
ii.	illuminated it suggests the lump is fluid-filled (e.g. cystic hygroma). Vascular bruit: auscultate the lump to listen for a bruit suggestive of vascular aetiology (e.g. carotid artery aneurysm).		
Other c			
Χ.	aetiology (e.g. ruptured epidermoid cyst, infected cyst).		
ix.	epidermoid cyst). Pulsatility: suggests vascular origin (e.g. carotid body tumour, aneurysm).		
viii.	cyst). Overlying skin changes: note any overlying skin changes such as erythema (e.g. inflammatory/infective aetiology) or a punctum (a pore in the epidermis indicative of an underlying		
vii.	mass is fluid-filled (e.g. cyst) then you should feel the sides bulging outwards. Temperature: increased warmth may suggest an inflammatory or infective cause (e.g. infected epidermoid		
vi.	palpate, the mass can reveal if it is tethered to the underlying muscle (e.g. malignant tumour). Fluctuance: hold the lump by its sides and then apply pressure to the centre of the mass with another finger. If the		



		ensuring they provide clear explanations of the risks, benefits, and alternatives, and confirming patient understanding.
Leadership	Patient Counselling about disease	Discuss the principles of effective patient counseling, focusing on clear and empathetic communication to explain disease conditions, and lifestyle modifications, ensuring patient understanding and engagement in their care. Practice counseling a simulated patient about a disease, using clear, empathetic communication to explain the diagnosis, treatment options, and necessary lifestyle changes, while ensuring the patient's understanding. Create and submit a poster illustrating the key steps involved in patient counseling for a specific disease, including how to explain the diagnosis, treatment options, and lifestyle modifications. Highlight strategies to ensure patient comprehension and engagement in the decision-making process.





		ENDOCRINOLOGY	8 REPRODUCTION-I	
-	Sequence of Topics Me to their resources. Topic		Colleges are at liberty to manage h Block	Total Hours = 09
Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Professionalism	Task Management & Productivity	 Discuss the principles of effective task management and productivity, focusing on setting priorities, managing workloads, and maintaining efficiency in both academic and clinical settings. Create a task list for an academic week, prioritizing tasks based on deadlines and importance, and reflecting on strategies to enhance productivity and efficiency. 	Submit a weekly task management plan, detailing how you organized and prioritized your tasks to maximize productivity. Reflect on how this approach helped improve your efficiency and ability to meet academic or clinical deadlines.
	Research	Literature Search Strategy	 Discuss the principles of developing a literature search strategy, including identifying relevant databases, using appropriate keywords, and refining search criteria to gather evidence for research purposes. Design and implement a literature search strategy for a given medical topic, selecting appropriate databases and refining search terms to find relevant articles. 	Submit a summary of your literature search strategy, including the databases used, search terms, and filters applied. Reflect on how you refined your search to gather the most relevant and high-quality articles for your research.
	Research	Literature Summary	Discuss steps for summarizing research findings and effectively organizing literature	Submit a completed literature matrix that includes a summary of key studies related

		using a literature matrix, enabling better comparison and synthesis of information across studies. Create a literature matrix for a selected topic, summarizing key findings, methodologies, and conclusions from relevant articles to facilitate analysis and comparison.	
Leadership	Taking Evidence based Informed Consent	Discuss principles of taking informed consent in a manner that incorporates evidence-based information, ensuring patients are fully informed about their treatment options, risks, and benefits. Practice taking informed consent from a simulated patient, using evidence-based information to explain the procedure, risks, benefits, and alternatives, ensuring the patient's understanding and comfort	patient, how you ensured their understanding, and the importance of respecting their autonomy in the decision-making process
Professionalism	Respect for Diversity	Appreciate the importance of respecting diversity in healthcare, including sensitivity and responsiveness to patients' culture, age, gender, and disabilities, while applying principles of inclusion and equity.	reflection outlining key strategies for respecting diversity in patient care. Include examples of how to communicate effectively with patients from

	Leadership	Conflict Resolution	Discuss the principles and strategies of effective conflict resolution focusing on communication, negotiation, and collaboration to achieve positive outcomes. Participate in a roleplaying exercise to navigate a conflict scenario, practicing conflict resolution techniques such as active listening, empathy, and problem-solving.	ensure that care is inclusive and equitable. Submit a reflection on the conflict resolution exercise. Discuss the strategies you used, how effective communication played a role, and what you learned about resolving conflicts in a healthcare environment.
*Dranged	Convenes of Tonics Ma		K & SPECIAL SENSES	
		entioned below. Medical cs can switch within eac	l Colleges are at liberty to manage h Block	Total Hours = 06
Code	Domain	Topic	Specific Learning Objectives	Proposed Portfolio Entry
	Research	Literature Reviews	 Discuss the purpose and methodology of conducting a literature review, including how to synthesize existing research, identify gaps in the literature, and establish a framework for future research. Conduct a literature review on a specific medical topic, 	Submit a poster showing steps in conducting literature review.
			summarizing key findings, identifying trends, and highlighting gaps in current research.	

		work-life balance, focusing on strategies for managing personal wellbeing while fulfilling professional commitments to ensure optimal mental and physical health. Create a personal plan that outlines strategies for achieving work-life balance, including time management, self-care practices, and setting boundaries between personal and professional life
Professionalism	Digital representation	 Discuss principles of digital representation in a professional context, focusing on how to effectively present an eportfolio, wiki page, or blog page that reflects one's skills, experiences, and professional identity. Create and present a digital representation of their professional achievements, utilizing platforms such as eportfolios, wiki pages, or blogs to showcase their skills, projects, and reflections. Submit a link to you e-portfolio, wiki page or blog page alonwith a brief reflection on the choices yo made in its designant and content. Discus how this digital representation align with you professional goal and identity.
Ethics	Patient autonomy in sensory disabilities	 Discuss the ethical principles surrounding patient autonomy, particularly in the context of individuals with sensory disabilities, focusing on their right to make informed decisions about their healthcare. Analyze a case study involving a patient with Create presentation of infographic that highlights ke strategies for supporting patier autonomy individuals with sensory disabilities. Sensory disabilities Include information on effective

	communication techniques, adaptations to
support and respect the patient's autonomy while ensuring they have	understanding, and ways to ensure
access to the necessary information to make informed choices.	informed consent.





Internal Assessment Theory

	Scoring Parameter	Marks out of 20%	Marks Distribution
1	Attendance in Lectures	85-90%=1% , > 90%=2% Remedial classes – re-sit examination allowed only after case endorsed and submitted by the college Principal and approval given by the Competent Authority . However, no marks given Remedial classes – re-sit examination allowed only in genuine cases after approval from Competent Authority . However, no marks given	85-90%= 01 mark > 90%= 02 marks
2	Block Examination	15%	22
3	Continuous Internal Assessment/Class Quiz/Class participation/ Professional Behaviour/ Ethical practices/ Leadership traits/ Module Exam Discipline/Punctuality	3%	06

Internal Assessment Practical & Behavioral

	Scoring Parameter	Marks out of 20%	Marks Distribution
		85-90%=1% , > 90%=2%	
1 22	Attendance in Practicals & Rotations	Remedial classes – re-sit examination allowed only after case endorsed and submitted by the college Principal and approval given by the Competent Authority . However, no marks given Remedial classes – re-sit examination allowed only in genuine cases after approval from Competent Authority . However, no marks given	85-90%= 01 mark > 90%= 02 marks
2	Block Examination (OSPE/OSCE/OSVE)	15%	26
3	CFRC Log Book / PERLs Portfolio	04%	07



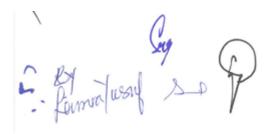


MBBS 2nd Professional

Block-5

		,	Written Exar	n	(Oral/Practical/Cl	inical Exam	
Theme	Subject	MCQ (1 mark)	SEQ (5 mark each)	Marks	OSPE (8 marks each observed)	OSCE (5 marks each observed)	OSVE (14 marks each observed)	Marks
Normal Structure	Anatomy applied/clinical	30	04	50	04	-	01	46
	Physiology applied/clinical	20	04	40	03	-	01	38
Normal Function	Biochemistry applied/clinical	14	01	19	01	-	01	22
Disease Burden & Prevention	Community Medicine & Public Health	07	-	07	-	-	-	0
	Behavioral Sciences	04	-	04	-	-	-	0
Pathophysiology &	Pathology	13	01	18	2	-	-	16
pharmacotherapeutics	Pharmacology	02	-	02	1	-	-	08
CFRC	CF-2	-	-	-	-	01	-	05
PERLs	PERLs-2	-	-	-	-	01	-	05
Total		90	10x5=50	140	11 stations x 08 = 88	02 stations x 05 = 10	03 stations x 14=42	140







ENDOCRINOLOGY & REPRODUCTION -I Module

From: Module organizer: ENDOCRINOLOGY & REPRODUCTION-1

To: All HODs

Subject: Nomination of Module representatives

Respected Faculty,

I am writing to request your assistance in nominating potential module representative from your respective departments for the upcoming **ENDOCRINOLOGY & REPRODUCTION**-I Module (Block-5), which will be for the duration of 7 weeks.

Department	Name of representative	Signature
		0
Physiology	Dr. Sawana Yamar	XV T
Biochemistry	Dr. Maleeha Aslam	Malecha
Anatomy	. Du Zainab Jawed	Frame.
Pharmacology	Dr Agisa Rashid	Don't
Pathology	Dy Mamorna.	4
Gynae/Obs	Dr. Areeha.	FOR Malelha.
Community medicine	Dr. Ayesha Souf	101 A
Medical education	Dr. Sadia	July,
Behavioural Sciences	Reeha Sarwar	Nutr

Kind Regards,

Cc;

- · Academic Supervisor
- All HODs
- DME, Block Organizer

Dr. Maleeha Aslam

Module Organizer

Endocrinology & reproduction -1

Module

Date: 26-03-25





ENDOCRINOLOGY & REPRODUCTION-I MODULE (2K25) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-1)

(Theme: Introduction to Endocrine Hormones)

STORY OF THE STORY	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am — 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm — 03:00pm
MON		The state of the s						
12-05-25								
			OCK	EVAM 4 /DA	TCH-B & BA	TCH C)		
TUE			LOCK	EXAM 4 (DA	TCH-B & BA	(TCH-C)		
13-05-25								
WED	Welcome Address &	L9		L10	L11	L12		SGD 01
14-05-25	Feedback Session (Block- 04)	ENR-P-001 Introduction To Endocrinology-I	SDL	ENR-P-001 Introduction To Endocrinology-II	EnR-A-027 Development of Thyroid Gland	EnR-A-002 Thyroid And Parathyroid Gland-I	PRAYER BREAK	A - Biochemistry B - Physiology
	Block/Module Organizer	Physiology	1 1 1	Physiology	Embryology	Gross Anatomy		
THU	LAB SESSION 01	L13		L14	L15	L16		SGD 01
15-05-25	A - Biochemistry B - Clinical Skills C - Histology	EnR-P-001 Introduction To Endocrinology-III Physiology	SDL	EnR-A-002 Thyroid And Parathyroid Gland-II <i>Gross Anatomy</i>	EnR-B-002 Signal transduction Biochemistry	EnR-P-001 Hypothalmus\Pituitary Gland-I Physiology	PRAYER BREAK	A - Physiology B - Biochemistry
FRI	LAB SESSION 01	L17		L18	L19	L20		SGD 01
16-05-25	A - Histology B - Biochemistry C - Clinical Skills	Perls-1 TASK MANAGMENT	SDL	EnR-B-003 Classification Of Hormones	HOLY QURA'AN / ISLAMIAT / PAK STD	EnR-P-001 Hypothalmus\Pituitary Gland-II	JUMA'A PRAYER	EnR-A-008 Pelvic Girdle-I
		PERLS	The second of the second	Biochemistry		Physiology	12000	Gross Anatomy

Version 0

Lab Histology: Lab Physiology:

Pituitan, thyroid, parathyroid, adrenal glands

Clinical Skills:

Lab Biochemistry:

Suturing

Perform DNA extraction

Dr. Maleeha Aslam MODULE ORGANIZER

Dr. Ali Talat **BLOCK ORGANIZER**

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR





ENDOCRINOLOGY & REPRODUCTION-I MODULE (2K25) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-2)

(Theme: Pituitary & Thyroid Gland)

MILE TE	08:00am – 09:25am	09:25am — 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON 19-05-25	ASSESSMENT - 01 (Module Organizer)	L13 EnR-P-001 Hypothalmus\Pituitary Gland-III Physiology	SDL	L14 EnR-B-004 Second Messanger-I Biochemistry	L15 EnR-A-030 Development of Pituitary Gland Embryology	L16 EnR-P-001 Hypothalmus\Pituitary Gland-IV Physiology	PRAYER BREAK	PBL 1 Young marketing executive is fatigued & gaining weight Session I
TUE 20-05-25	A - Clinical Skills B - Histology C - Biochemistry	L17 EnR-P-001 Hypothalmus\Pituitary Gland-V . Physiology	SDL	L18 EnR-A-029 Development of Thyroid\Parathyroid Embryology	L19 EnR-B-004 Second Messanger-II Biochemistry	L20 EnR-Pa-001, 002 Pathology Of Ant & Post Pituitary Gland Pathology	PRAYER BREAK	SGD 02 A - Physiology B - Biochemistry
WED 21-05-25	LAB SESSION 02 A - Clinical Skills B - Histology C - Biochemistry	L21 EnR-P-001 Hypothalmus\Pituitary Gland-VI Physiology	SDL	L22 EnR-A-028 Development of Parathyroid Glands Embryology	L23 EnR-B-004 Second Messanger-III Biochemistry	L24 EnR-P-002 Thyroid Hormones-I Physiology	PRAYER BREAK	SGD 02 A - Biochemistry B - Physiology
THU 22-05-25	LAB SESSION 02 A - Biochemistry B - Clinical Skills C - Histology	L25 EnR-A-032 Development of Adrenal Gland Embryology	SDL	L26 EnR-P-002 Thyroid Hormones-II Physiology	L27 EnR-B-004 Second Messanger-IV Biochemistry	L28 EnR-P-002 Thyroid Hormones-III Physiology	PRAYER BREAK	SGD 02 Pelvic Girdle I Gross Anatomy
FRI 23-05-25	A - Histology B - Biochemistry C - Clinical Skills	L29 EnR-A-038-040 Adrenal, pancreas, thyroid glands Histology	SDL	L30 Perls-2 LITERATURE SEARCH PERLS	L31 HOLY QURA'AN / ISLAMIAT / PAK STD	L32 EnR-P-002 Thyroid Hormones-IV Physiology	JUMA'A PRAYER	SGD 03 Pelvic Girdle II Gross Anatomy

Version 0

1. Pituitary , thy sois

Lab Histology: Lab Physiology: 2. Testes, épididymus, vas deferens

Dr. Maleeha Aslam MODULE ORGANIZER Dr. All Talat BLOCK ORGANIZER Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR

Clinical Skills:

Lab Biochemistry:

ر الاستام. Sackwing 3. Examination of the thyroid gland

2. Perform electrophoresis.
1. DNA CEBRACTUR

Prof. Dr. Muhammad Sabir





ENDOCRINOLOGY & REPRODUCTION-I MODULE (2K25) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-3)

(Theme: Adrenal Gland)

avilete)	08:00am – 09:25am	09:25am — 10:15am	10:15am 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON 26-05-25	ASSESSMENT - 02 (Module Organizer)	L33 EnR-Pa-003 Pathology OF Thyroid Pathology	SDL	L34 EnR-A-010,011 Bony pelvis, Pelvic girdle Gross Anatomy	L35 EnR-Ph-001 Antithyroid Substance,MoA,Uses Pharmacology	L36 EnR-P-002 Thyroid Hormones-IV Physiology	PRAYER BREAK	PBL 1 Young marketing executive is fatigued & gaining weigh Session II
TUE 27-05-25	A - Histology B - Blochemistry C - Clinical Skills	EnR-P-003 Thyroid Hormones-V	SDL	L38 EnR-A-012-014 Pelvic floor, Muscles & girdles	L39 EnR-Pa-006 Pathalogy of Adrenal Gland	L40 EnR-B-004 Second Messanger-V	PRAYER BREAK	SGD 01 01:35pm - 02:20pm A - Physio B - Biochem SGD 01 02:20pm - 03:00pm A - Biochem B - Physio
WED 28-05-25		Physiology	Y	Gross Anatomy OUM-E-	rakbet	Biochemistry		A- blochem B-rnyso
	LAB SESSION 03 A - Biochemistry B - Clinical Skills C - Histology	L41 EnR-P-003 Thyroid Hormones-VI Physiology	Y(PRAYER BREAK	SGD 04 EnR-A-009 Sacroiliac Joint Gross Anatomy

Version 0

Lab Histology: Lab Physiology: Seminal vesicles, prostate

Dr. Maleeha Aslam MODULE ORGANIZER Dr. Ali Talat **BLOCK ORGANIZER**

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR

Clinical Skills:

Lab Biochemistry:

Examination for Acromegaly

Perform PCR

Prof. Dr. Muhammad Sabir





ENDOCRINOLOGY & REPRODUCTION-I MODULE (2K25) -

17

YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-4)

(Theme: ADRENAL GLAND)

	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L45		L46	L47	L48		PBL 2
02-06-25	ASSESSMENT - 03 (Module Organizer)	EnR-A-022 Pelvic vessels & pelvic nerves-I,II Gross Anatomy	SDL	EnR-P-003 Adrenocortical Hormones-I Physiology	EnR-PA-006 Pathalogy of Adrenal Gland Pathology	EnR-P-003 Adrenocortical Hormones-II Physiology	PRAYER BREAK	A boy with increased thirst & urination Session I
TUE	LAB SESSION 04	L49		L50	L51	L52		SGD 04
03-06-25	A - Histology B - Biochemistry C - Clinical Skills	EnR-Pa-004 Pathology OF Paraythyroid Gland Pathology	SDL	EnR-P-003 Adrenocortical Hormones-III <i>Physiology</i>	EnR-B-018,019 Prokaryotic DNA replication Biochemistry	EnR-A-023 Pelvis-I,II Gross Anatomy	PRAYER BREAK	A - Physiology B - Biochemistry
WED	LAB SESSION 04°	L53		L54	L55	L56	1	SGD 04
04-06-25	A - Clinical Skills B - Histology C - Biochemistry	EnR-A-023 Pelvis-III Gross Anatomy	SDL	EnR-P-003 Adrenocortical Hormones-IV Physiology	EnR-B-020 Eukayotic DNA replication Biochemistry	EnR-P-003 Adrenocortical Hormones-V Physiology	PRAYER BREAK	A - Biochemistry B - Physiology
THU	LAB SESSION 04	L57	. 4	L58	L59	L60		SGD 05
05-06-25	A - Biochemistry B - Clinical Skills C - Histology	EnR-P-006 Parathyroid Horomones -I Physiology	SDL	EnR-B-21 telomerase and telomers Biochemistry	EnR-P-006 Parathyroid Horomones- II Physiology	EnR-A-023 Pelvis-IV Gross Anatomy	PRAYER BREAK	EnR-A-010 BONY PELVIS Gross Anatomy
FRI 06-06-25				EID UL AZHA ANI	SUMMER BREAK			

Version 0

Lab Histology:

Maleeha Aslam

MODULE ORGANIZER

ovaries, (seminal vesicles, prostate)*

Lab Physiology:

Dr. Ali Talat BLOCK ORGANIZER Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR Clinical Skills:

measurement of blood glucose, (ad omegaly)*

Lab Biochemistry:

perform ELISA,(perform PCR)*

Prof. Dr. Muhammad Sabir





ENDOCRINOLOGY & REPRODUCTION-I MODULE (2K25) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-5)

(Theme: Reproduction & Genetics)

STATE OF	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L61		L62	L63	L64		PBL 2
07-07-25	ASSESSMENT - 04 (Module Organizer)	EnR-P-009 Spermatogenesis-I Physiology	SDL	EnR-A-024 Perineum-I Gross Anatomy	EnR-Pa-008 Male Reproductive Pathology Pathology	EnR-B-005 Synthesis OF Hormones Biochemistry	PRAYER BREAK	A boy with increased thirst & urination Session II
TUE	LAB SESSION 05	L65		L66	L67	L68		SGD 05
08-07-25	A - Histology B - Biochemistry C - Clinical Skills	EnR-A-024 Perineum-II Gross Anatomy	SDL	EnR-P-009 Spermatogenesis-II Physiology	EnR-B-007, 008 Syriulesis OF Testerone, Progesteron Biochemistry	EnR-A-033 Development of Reproductive System Embryology	PRAYER BREAK	A - Physiology B - Biochemistry
WED	LAB SESSION 05	L69		L70	L71	L72		SGD 05
09-07-25	A - Clinical Skills B - Histology C - Biochemistry	EnR-A-034 Testis Embryology	SDL	EnR-P-010 TESTOSTERONE-I Physiology	EnR-B-015 Chromosmal Abnormalities Biochemistry	EnR-A-041-045 Testes, epiturymus, vas deferens, seminal Histology	PRAYER BREAK	A - Biochemistry B - Physiology
THU 10-07-25	LAB SESSION 05 A - Biochemistry B - Clinical Skills C - Histology	L73 EnR-P-010 TESTOSTERONE-II Physiology	SDL	L74 EnR-A-024 Perineum-III Gross Anatomy	L75 EnR-A-025 Pelvis Gross Anatomy	L76 Student Activity	PRAYER BREAK	SGD 06 EnR-A-016 Sacrum Gross Anatomy
FRI	Feedback Session	L77	Terrana 1	L78	L79	L80		SGD 07
11-07-25	for Block & All Assessments	EnR-P-012 Female Sexual Hormones Physiology	SDL	EnR-CM-002 Genetics Community Medicine	HOLY QURA'AN / ISLAMIAT / PAK STD	EnR-B-008 Steroids in infertility Biochemistry	JUMA'A PRAYER	EnR-A-015 Peritoneal cavity of pelvis Gross Anatomy

Version 0

Histology:

Lab Physiology:

Dr. Maleeha Aslam

MODULE ORGANIZER

Uterus, follapian tubes

Dr. Ali Talat **BLOCK ORGANIZER**

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR

Clinical Skills: Lab Biochemistry: Revision

Revision





ENDOCRINOLOGY & REPRODUCTION-I MODULE (2K25) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-6)

(Theme: Reproduction & Genetics)

AVER (S	08:00am – 09:25am	09:25am — 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L:91		L:82	L! 9 3	L 94		PBL 3
14-07-25	ASSESSMENT - 05	EnR-B-017,018 mutation and central dogma	SDL	EnR-P-011 Menstrual Cycle-I	EnR-A-025 Pelvis	EnR-P-011 Menstrual Cycle-II	PRAYER BREAK	A couple trying to have a baby
	(Module Organizer)	Biochemistry		Physiology	Gross Anatomy	Physiology		Session I
TUE	LAB SESSION 06	L-g5		L .8 6	L'187	Lig8		SGD 06
15-07-25	A - Histology B - Physiology C - Clinical Skills	EnR-A-046,047 Ovaries/Uterus	SDL	EnR-P-011 Menstrual Cycle-III	EnR-B-022 DNA repair	EnR-P-013 Puberty,Menarche,Men opause	PRAYER BREAK	A - Physiology B - Biochemistry
		Histology		Physiology	Biochemistry	Physiology		
WED	LAB SESSION 06	L∷ β 9		L: ₹ 0	L(9 1	L.¶2		SGD 06
16-07-25	A - Clinical Skills B - Histology C - Physiology	EnR-P-014 Pregnancy & Placenta-I	SDL	EnR-B-023	EnE-A-001 Diencaphlon	EnR-P-014 Pregnancy & Placenta- II	PRAYER BREAK	A - Biochemistry B - Physiology
		Physiology		Biochemistry	Gross Anatomy	Physiology		
THU	LAB SESSION 06	L M3		L 94	L: 9 5	L 7 96		SGD 08
17-07-25	A - Physiology B - Clinical Skills C - Histology	EnR-P-014 Pregnancy & Placenta- III Physiology	SDL	EnR-P-015 Lactation-I Physiology	EnR-A-048-050 Fallopian Tube, cervix, vagina Histology	Student Activity	PRAYER BREAK	EnR-A-017 Pelvic Fascia Gross Anatomy
	Feedback Session	L.97		L 98	L 49 9	L 12 0		SGD 09
FRI 18-07-25	for Assessment - 05	EnR-P-015 Lactation-II	SDL	Perls-4 RESPECT FOR DIVERSITY	HOLY QURA'AN / ISLAMIAT / PAK STD	EnR-CM-003 Reproductive Health	JUMA'A PRAYER	EnR-A-018 Pelvic Outlet & Inlet
	Block Organizer	Physiology		PERLS	IOLAMINI / I AR OID	Community Medicine	2.00	Gross Ana

Version 0

Histology:

Lab Physiology:

Cervix, vagina, mammary glands

Pregnancy test

Dr. Maleeha Aslam MODULE ORGANIZER Dr. Ali/Talat
BLOCK ORGANIZER

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR Clinical Skills:

Lab Biochemistry:

Revision

11011

Prof. Dr. Muhammad Sabir





ENDOCRINOLOGY & REPRODUCTION-I MODULE (2K25) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-7)

(Theme: Pancreas & Reproduction)

, ≱ }EEIŲė	08:00am — 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L191	7 . 3 . 4 . 3	L1€2	L103	L104		PBL 3
21 <i>Π1</i> 2025	ASSESSMENT - 06	EnR-Ag-001 Menopause	SDL	EnR-P-004 Pancreatic Hormones-I	EnR-A-050 Mammary glands	EnR-P-004 Pancreatic Hormones-II	PRAYER BREAK	A couple trying to have a baby
	(Module Organizer)	Aging/Gynae/Obs	1 17	Physiology	Histology	Physiology		Session II
TUE	LAB SESSION 07	L1 0 5		L1126	L167	L1 ● 8		SGD 07
22/7/2025	A - Histology B - Physiology C - Clinical Skills	EnR-BhS-001 Sexual Difficulties and Medical Practices Behavioral Sciences	SDL	EnR-Pa-007 Pathology of endocrine pancreas gland Pathology	EnR-B-025,026 Post-transcriptional modifications Biochemistry	EnR-P-004 Pancreatic Hormones- III Physiology	PRAYER BREAK	A - Physiology B - Biochemistry
WED	LAB SESSION 07	L1 0 9	ET OF B	L1\$0	L1\$1	L1\$2		SGD 07
23/7/2025	A - Clinical Skills B - Histology C - Physiology	EnR-P-007 Regulation Of Calcium & Phosphate-1 Physiology	SDL	EnR-A-029 Development of Pituitary Gland Embryology	EnR-B-029 Gene EXPRESSION Biochemistry	EnR-P-007 Regulation Of Calcium & Phosphate-1 Physiology	PRAYER BREAK	A - Biochemistry B - Physiology
THU	LAB SESSION 07	L113		L1#4	L1\$5	L1 6		SGD 10
	A - Physiology	EnR-P-005		EnR-CM-001	Perls		PRAYER	EnR-A-017
24/7/2025	B - Clinical Skills C - Histology	Abnormalities Of Glucose Regulation	SDL	Diabetes	Evidence based informed consent	Student Activity	BREAK	Pelvic Fascia Gross Anatomy
	S. Fandhard Caraina	Physiology		Community Medicine	PERLS L1#9	1420	The state of the s	SGD 11
FRI	Feedback Session	L1\$7		Perls	Electrical Control	A STATE OF THE STA	State !	EnR-A-018
25/7/2025	for Assessment - 06	EnR-A-026 Mammary Gland	SDL	Conflict resolution	HOLY QURA'AN / ISLAMIAT / PAK STD	EnR-B-029 Gene EXPRESSION	JUMA'A PRAYER	Pelvic Outlet & Inlet
	Block Organizer	Gross Anatomy		PERLS		Biochemistry		Gross Anatomy

Version 0

Histology:

Lab Physiology:

Revision

Revision

Moleeha. Dr. Maleeha Aslam

MODULE ORGANIZER

Dr. Ali Talat **BLOCK ORGANIZER**

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR

Clinical Skills:

Revision

Lab Biochemistry:





HEAD & NECK, SPECIAL SENSES MODULE (2K24) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-1) (Theme: Vision)

WEEK 1	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L1		L2	L3	L4		PBL 01
28-07-25	Welcome Address	HNSS-A-001 Orbital Cavity &EOM	SDL	HNSS-A-045 Eye-1	HNSS-P-001 Physical priciples of optics	HNSS-A-001 Optio Interve, Opthalmic Artery &	PRAYER BREAK	Blurring boundaries
	Block/Module Organizer	Anatomy		Histology	Physiology	Anatomy		Session-01
TUE	LAB SESSION 01	L5		L6	L7	L8		SGD 01
29-07-25	A - Histology B - Biochemistry C - Physiology	HNSS-P-001 Visual Acquity-1	SDL	HNSS-A-041 Eye-1	HNSS-A-001 Eyeball-1	HNSS-P-001 Visual Acquity-2	PRAYER BREAK	A - Physiology B - Biochemistry
		Physiology		Embryology	Anatomy	Physiology		
WED	LAB SESSION 01	L9		L10	L11	L12		SGD 02
	A - Physiology B - Histology C - Biochemistry	HNSS-P-003&012 Fluid System of Eye & Eye Movement Physiology	SDL	HNSS-A-041 Eye-2 <i>Embryology</i>	HNSS-A-001 Eyeball-2 <i>Anatomy</i>	HNSS-P-5,6&7 Retina & Adaptation Physiology	PRAYER BREAK	A - Biochemistry B - Physiology
THU	LAB SESSION 01	L13		L14	L15	, ,,		SGD 01
	A - Biochemistry B - Physiology C - Histology	HNSS-P-006,008 Photochemistry of Vision & Colour Vision <i>Physiology</i>	SDL	HNSS-A-001 Eyelid & Lacrimal Apparatus <i>Anatomy</i>	HNSS-B-001 Metabolism of Mono & Disaccharides-1 Biochemistry	Student's activity	PRAYER BREAK	3rd, 4th & 6th cranial Nerves & Ciliary Ganglion <i>Anatomy</i>
FRI		L16		L17	L18	L19		SGD 02
01-08-25	Mentoring Session	HNSS-P-01,2,3,4,5,7 Clinical Correlation of Eye-1	SDL	HNSS-P-006,8 Photochemistry of Vision & Colour Vision	HOLY QURA'AN / ISLAMIAT / PAK STD	HNSS-CM-003 Blindness	JUMA'A PRAYER	Skull-1
		Physio/Opthalmology		Physiology		Community Med		Anatomy

Version 0

Lab Histology:

Eye

Lab Physiology:

Cranial nerves+ visual field

Lab Biochemistry:

Interpretaion of results + HbA1c

Dr. Ayesha Riaz MODULE ORGANIZER **Dr. Ali Talat**BLOCK ORGANIZER

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR





HEAD & NECK, SPECIAL SENSES MODULE (2K24) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-2) (Theme:Hearing)

WEEK 2	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L20		L21	L22	L23		PBL 01
04-08-25	ASSESSMENT - 01	HNSS-P-009 &010 Visual Pathways & Field of Vision	SDL	HNSS-A-045 Eye-2	HNSS-A-041 Ear-1	HNSS-A-002 Paranasal Sinuses & Olfactory Nerve	PRAYER BREAK	Blurring boundaries
	(Module Organizer)	Physiology		Histology	Embryology	Anatomy		Session-02
TUE	LAB SESSION 02	L24		L25	L26	L27		SGD 02
05-08-25	A - Clinical Skills B - Physiology C - Histology	HNSS-P-014 & 015 Accomodation & Pupillary Light Reflex <i>Physiology</i>	SDL	HNSS-A-003 External &Middle Ear Cavity <i>Anatomy</i>	HNSS-P-8,11 to 15 Clinical Correlation of Eye-2 Physio/Opthalmology	HNSS-A-003 Internal Ear, 8th Nerve & Auditory Pathway <i>Anatomy</i>	PRAYER BREAK	A - Physiology B - Biochemistry
WED	LAB SESSION 02	L28		L29	L30	L31		SGD 02
06-08-25	A - Histology B - Clinical Skills C - Physiology	HNSS-P-016 Sense of Hearing-1 Physiology	SDL	HNSS-A-041 Ear-2 <i>Embryology</i>	HNSS-A-046 Ear-1 <i>Histology</i>	HNSS-CM-001 Noice Pollution Community Med	PRAYER BREAK	A - Biochemistry B - Physiology
THU	LAB SESSION 02	L32		L33	L34	,		SGD 03
	A - Physiology B - Histology C - Clinical Skills	HNSS-P-016 Sense of Hearing-2	SDL	HNSS-Pa-001 Eye & Ear Infection-1	HNSS-CM-002 Hearing Loss	Student's Activity	PRAYER BREAK	External Nose & Nasal Cavity
		Physiology		Pathology	Community Med			Gross Anatomy
FRI	Feedback Session	L35	_	L36	L37	L38		SGD 04
08-08-25	ASSESSMENT - 01	PERLs- 2-11 Professionalism	SDL	HNSS-P-017 &018 Inner Ear/ Cochlea & Organ of corti 1	HOLY QURA'AN / ISLAMIAT / PAK STD	HNSS-P-017 &018 Inner Ear/ Cochlea & Organ of corti 2	PRAYER BREAK	Skull-2
	Module Organizer	PERLs		Physiology		Physiology		Gross Anatomy

Version 0

Lab Histology - : Ea

Lab Physiology : Light Reflex+ Opthalmoscopy

Dr. Ayesha RiazMODULE ORGANIZER

Dr. Ali TalatBLOCK ORGANIZER

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR

Clinical Skills lab:

Prof. Dr. Muhammad Sabir
PRINCIPAL

Nasal Examination





HEAD & NECK, SPECIAL SENSES MODULE (2K24) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-3) (Theme: Taste + Head & neck)

WEEK 3	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L39		L40	L41	L42		PBL 02
11-08-25	ASSESSMENT - 02	HNSS-A-012&013 Oral Cavity (Francisco) Palate,Tongue &	SDL	HNSS-A-046 Ear-2	HNSS-Pa-001 Eye & Ear Infection-2	HNSS-P-019 & 020 Determination of Sound Frequency & Loudness	PRAYER BREAK	
	(Module Organizer)	Anatomy		Histology	Pathology	Physiology		Session 01
TUE	LAB SESSION 03	L43		L44	L45	L46		SGD 05
12-08-25	A - Histology B - Biochemistry C - Physiology	HNSS-P-021 Auditory Pathway	SDL	HNSS-A-040 Lips And Palate	HNSS-A-004 Tongue & Taste Buds	HNSS-A-038 Face & Nasolacrimal Duct	PRAYER BREAK	Skull-3(Scalp)
		Physiology		Embryology	Anatomy	Embryology		Gross Anatomy
WED	LAB SESSION 03	L47		L48	L49	0		SGD 06
	A - Physiology B - Histology C - Biochemistry	HNSS-P-016,021,27 Ent Clinical Correlation	SDL	HNSS-P-022 & 023 Sense of Taste & Excitation of Taste Buds		PERLs- 2-12 Professionalism	PRAYER BREAK	Mandible & Temporomandibular Joint
		Physiology		Physiology/ENT	Anatomy	PERLs		Gross Anatomy
THU 14-08-25	LAB SESSION 03 A - Biochemistry B - Physiology C - Histology	0 HNSS-A-024,25&26 Triangles of Neck & Contents of Neck <i>Anatomy</i>	SDL	0 PERLs- 2-13 Ethics PERLs	0 HNSS-A-027&028 Blood Supply & Lymphatic Drainage of <i>Anatomy</i>	0	PRAYER BREAK	SGD 03 A - Physiology B - Biochemistry
FRI	Feedback Session	L50		L51	L52	L53		SGD 03
15-08-25	ASSESSMENT - 02 Module Organizer	HNSS-A-011&014 Salivary Glands <i>Anatomy</i>	SDL	HNSS-P-024 & 025 Abnormalities of Taste Sensations & Taste Physiology	HOLY QURA'AN / ISLAMIAT / PAK STD	HNSS-A-042,043,044 Head & Neck (Glands) Histology	JUMA'A PRAYER	A - Biochemistry B - Physiology

Version 0

Lab Histology : Tongue

Lab Physiology : Cranial nerves+visual field

Dr. Ayesha RiazMODULE ORGANIZER

Dr. Ali TalatBLOCK ORGANIZER

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR

Lab Biochemistry:

Prof. Dr. Muhammad Sabir
PRINCIPAL

Abnormal constituents in urine





HEAD & NECK, SPECIAL SENSES MODULE (2K24) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-3) (Theme: Taste & Head & Neck)

WEEK 3	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L39		L40	L41	L42		PBL 02
11-08-25	ASSESSMENT - 02	HNSS-A-012&013 Oral Cavity (Hard&Soft Palate,Tongue &	SDL	HNSS-A-046 Ear-2	HNSS-Pa-001 Eye & Ear Infection-2	HNSS-P-019 & 020 Determination of Sound Frequency &	PRAYER BREAK	Sounds of silence
<u>.</u>	(Module Organizer)	Anatomy		Histology	Pathology	Physiology		Session 01
TUE	LAB SESSION 03	L43		L44	L45	L46		SGD 03
12-08-25	A - Histology B - Biochemistry C - Physiology	HNSS-P-021 Auditory Pathway	SDL	HNSS-A-040 Lips And Palate	HNSS-A-004 Tongue & Taste Buds	HNSS-A-038 Face & Nasolacrimal Duct	PRAYER BREAK	A - Physiology B - Biochemistry
		Physiology		Embryology	Anatomy	Embryology		
WED	LAB SESSION 03	L47		L48	L49			SGD 03
13-08-25	A - Physiology B - Histology C - Biochemistry	HNSS-P-016,021,27 Ent Clinical Correlation	SDL	HNSS-P-022 & 023 Sense of Taste & Excitation of Taste	HNSS-A-008&009 Face & Danger Area	Students' Activity	PRAYER BREAK	A - Biochemistry B - Physiology
		Physiology		Physiology/ENT	Anatomy			
THU 14-08-25				Independ	ence Day			
FKI	LAB SESSION 03	L50		L51	L52	L53		SGD 05
15-08-25	A - Biochemistry B - Physiology C - Histology	HNSS-A-011&014 Salivary Glands	SDL	HNSS-P-024 & 025 Abnormalities of Taste Sensations & Taste	HOLY QURA'AN / ISLAMIAT / PAK STD	HNSS-A-042,043,044 Head & Neck (Glands)	JUMA'A PRAYER	Skull-3(Scalp)
		Anatomy		Physiology		Histology		Gross Anatomy

Version 0

Lab Histology : Tongue

Lab Physiology: Visual acuity+colour vision

Lab Biochemistry : Abnormal constituents in urine

Dr. Ayesha RiazMODULE ORGANIZER

Dr. Ali TalatBLOCK ORGANIZER

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR





HEAD & NECK, SPECIAL SENSES MODULE (2K24) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-4) (Theme: Head &)

WEEK 4	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L54		L55	L56	L57		PBL 2
40.00.05	ASSESMENT-03	HNSS-A-008	001	PERLs- 2-13	HNSS-A-008	HNSS-BhS-001	PRAYER	0 1 6 1
18-08-25		Facial Nerve	SDL	Ethics	Facial Artery	Pain-1	BREAK	Sounds of silence
Į.	(Module Organizer)	Anatomy		PERLs	Anatomy	Behavioral Sciences		Session 02
TUE	LAB SESSION 04	L58		L59	L60	L61		SGD 04
19-08-25	A - Physiology B - Histology C - Clinical Skills	HNSS-A-017 Cervical Vertebrae	SDL	HNSS-A-035,036 &037	HNSS-A-018 Prevertebral Muscles	HNSS-B-001 Metabolism of Mono & Disaccharides-2	PRAYER BREAK	A - Physiology B - Biochemistry
		Anatomy		Embryology	Anatomy	Biochemistry		
WED	LAB SESSION 04	L62		L63	L64	L65		SGD 04
20-08-25	A - Clinical Skills B - Physiology C - Histology	HNSS-A-035,036 &037 Congenital Anomalies Embryology	SDL	HNSS-A-019 & 020 Deep Cervical Fascia& Fascial Spaces Anatomy	PERLs- 2-15 Leadership PERLs	HNSS-A-022&023 Neck Muscles & Ansa Cervicalis Anatomy	PRAYER BREAK	A - Biochemistry B - Physiology
	LAB SESSION 04	L66		L67	L68	Anatomy		SGD 06
THU 21-08-25	A - Histology B - Clinical Skills C - Physiology	HNSS-A-024,25&26	SDL	HNSS-A-008 Trigeminal Nerve Anatomy	HNSS-Ag-002 Head & Neck (Age Changes of Mandible) Aging/Anatomy	Student's Activity	PRAYER BREAK	Mandible & Temporomandibular Joint Gross Anatomy
FRI	Feedback Session	L69		L70	L71	L72		SGD 07
22-08-25		HNSS-B-001 Metabolism of Mono & Disaccharides-3	SDL	HNSS-A-027&028 Βίουα Θαμρην α Lymphatic Drainage of	HOLY QURA'AN / ISLAMIAT / PAK STD	HNSS-A-007 Muscles of Facial Expression	JUMA'A PRAYER	Hyoid bone, Suprahyoid & infrahyoid Muscles
	Module Organizer	Biochemistry		Anatomy		Anatomy		Gross Anatomy

Version 0

Lab Histology : Head & neck

Lab Physiology : Ear

Clinical Skills: neck lump examination

Dr. Ayesha RiazMODULE ORGANIZER

Dr. Ali TalatBLOCK ORGANIZER

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR





HEAD & NECK, SPECIAL SENSES MODULE (2K24) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-5) (Theme: Head & Neck)

WEEK 5	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON		L73		L74	L75	L76		PBL 03
25-08-25	ASSESSMENT - 04	HNSS-A-018 Prevertebral Muscles	SDL	PERLs- 2-12 Professionalism	HNSS-A-012&013 Oral Cavity (Francisco) Palate,Tongue &	HNSS-B-001 Metabolism of Mono & Disaccharides-4	PRAYER BREAK	When sweet becomes sour
	(Module Organizer)	Anatomy		PERLs	Anatomy	Biochemistry		Session-01
TUE	LAB SESSION 05	L77		L78	L79	L80		SGD 05
26-08-25	A - Clinical Skills B - Physiology C - Histology	HNSS-A-039 Nose	SDL	HNSS-A-017 Cervical Vertebrae	HNSS-A-024,25&26 Triangles of Neck & Contents of Neck	HNSS-B-001 Metabolism of Mono & Disaccharides-5	PRAYER BREAK	A - Physiology B - Biochemistry
		Embryology		Anatomy	Anatomy	Biochemistry		
WED	LAB SESSION 05	L81		L82	L83	L84		SGD 05
27-08-25	A - Histology B - Clinical Skills C - Physiology	HNSS-A-035,036 &037 Congenital Anomalies Embryology	SDL	HNSS-A-024,25&26 Triangles of Neck & Contents of Neck <i>Anatomy</i>	SDL	HNSS-A-032&034 Pharynx <i>Anatomy</i>	PRAYER BREAK	A - Biochemistry B - Physiology
THU	LAB SESSION 05	L85		L86	L87			SGD 08
_	A - Histology B - Clinical Skills C - Physiology	HNSS-A-029,030&031 Cervical Plexus <i>Anatomy</i>	SDL	HNSS-Ag-001 Deafness (ENT) <i>Aging/ENT</i>	HNSS-A-033 Larynx <i>Anatomy</i>	Students' Activity	PRAYER BREAK	Blood Supply, Lymphatic Drainage & Nerve Supply of Head & Neck <i>Anatomy</i>
FRI	Feedback Session	L88		L89	L90	L91		PBL 03
29-08-25	ASSESSMENT -04	HNSS-P-026 Physiology of Smell	SDL	PERLs- 2-14 Research	HOLY QURA'AN / ISLAMIAT / PAK STD	HNSS-BhS-001 Pain-2	JUMA'A PRAYER	When sweet becomes sour
	Module Organizer	Physiology		PERLs		Behavioral Sciences		Session-02

Version 0

Lab Histology: Revision

Lab Physiology : Revision

Lab Clinical Skill: Revision





HEAD & NECK, SPECIAL SENSES MODULE (2K24) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-6) (Theme: Head & Neck)

WEEK 6	08:00am – 09:25am	09:25am – 10:15am	10:15am -	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm -	01:35pm – 03:00pm
			10:35am				01:35pm	
MON	Feedback Session	L81		L82	L83	L84		PBL 04
01-09-24	For Module Assessments	Anatomy	SDL	Physiology	Biochemistry	Anatomy	PRAYER BREAK	Revision
	Module Organizer	Revision		Revision	Revision	Revision		Session-01
TUE	Feedback Session	L85		L86	L87	0		SGD 06
02-09-24	For Module Assessments	Physiology	SDL	Anatomy	Biochemistry	Physiology	PRAYER BREAK	A - Physiology B - Biochemistry
	Medical education	Revision		Revision	Revision	Revision		Revision
WED	LAB SESSION 06	L88		L89	L90	L91		SGD 06
03-09-24	A - Histology B - Clinical Skills C - Physiology	Biochemistry	SDL	Physiology	Anatomy	Biochemistry	PRAYER BREAK	A - Biochemistry B - Physiology
	Revision	Revision		Revision	Revision	Revision		Revision
THU	LAB SESSION 06	L92		L93	L94	L95		SGD 09
04-09-24	A - Physiology B - Histology C - Clinical Skills	Anatomy	SDL	Biochemistry	Physiology	Student activity	PRAYER BREAK	Anatomy
	Revision	Revision		Revision	Revision	Revision		Revision
FRI	LAB SESSION 06	L108		L109	L110	L111		SGD 10
05-09-24	A - Clinical Skills B - Physiology C - Histology	Biochemistry	SDL	Physiology	SDL	Anatomy	JUMA'A PRAYER	Anatomy
	Revision	Revision		Revision		Revision		Revision

Version 0

Histology: Revision Clinical Skills: Revision

Lab Physiology: Revision

Dr. Ayesha Riaz MODULE ORGANIZER **Dr. Ali Talat**BLOCK ORGANIZER

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR





HEAD & NECK, SPECIAL SENSES MODULE (2K24) - YEAR - II MBBS WEEKLY SCHEDULE

(WEEK-7) (Theme: Head & Neck)

WEEK 7	08:00am – 09:25am	09:25am – 10:15am	10:15am - 10:35am	10:35am – 11:25am	11:25am – 12:15pm	12:15pm – 01:05pm	01:05pm - 01:35pm	01:35pm – 03:00pm
MON				^	^	^		202.42
23-09-24								
TUE								
24-09-24								
WED								
25-09-24			R	LOCK 05 E	vaminatio	n		
				LOCKOSL	, a i i i i i i i i i i i i i i i i i i	,		
THU								
26-09-24								
FRI								
27-09-24								

Version 0

Histology: Revision
Lab Physiology: -

Clinical Skills: Lab Biochemistry: Revision Revision

Dr. Ayesha RiazMODULE ORGANIZER

Dr. Muhammad Shamaun Razi ACADEMIC COORDINATOR

res:

Lect No.	Code	Title
L1	HNSS-A-001	Orbital Cavity &EOM
L2	HNSS-A-045	Eye-1
L3	HNSS-P-001	Physical priciples of optics
L4	HNSS-A-001	Optic Nerve, Opthalmic Artery & Pterygopalatine ganglion
L5	HNSS-P-001	Visual Acquity-1
L6	HNSS-A-041	Eye-1
L7	HNSS-A-001	Eyeball-1
L8	HNSS-P-001	Visual Acquity-2
L9	HNSS-P-003&012	Fluid System of Eye & Eye Movement
L10	HNSS-A-041	Eye-2
L11	HNSS-A-001	Eyeball-2
L12	HNSS-P-5,6&7	Retina & Adaptation
L13	HNSS-P-006,008	Photochemistry of Vision & Colour Vision 1
L14	HNSS-A-001	Eyelid & Lacrimal Apparatus
L15	HNSS-B-001	Metabolism of Mono & Disaccharides-1
		STUDENT ACTIVITY
L16	01 2 2 4 5 7	Clinical Correlation of Eye-1
L17	HNSS-P-006,8	Photochemistry of Vision & Colour Vision 2
L18		HOLY QURA'AN / ISLAMIAT / PAK STD
L19	HNSS-CM-003	Blindness
L20	HNSS-P-009 &010	Visual Pathways & Field of Vision
L21	HNSS-A-045	Eye-2
L22	HNSS-A-041	Ear-1
L23	HNSS-A-002	Paranasal Sinuses & Olfactory Nerve
L24	HNSS-P-014 & 015	Accomodation & Pupillary Light Reflex
L25	HNSS-A-003	External & Middle Ear Cavity
L26	HNSS-P-8,11 to 15	Clinical Correlation of Eye-2
L27	HNSS-A-003	Internal Ear, 8th Nerve & Auditory Pathway
L28	HNSS-P-016	Sense of Hearing-1
L29	HNSS-A-041	Ear-2
L30	HNSS-A-046	Ear-1
L31	HNSS-CM-001	Noice Pollution
L32	HNSS-P-016	Sense of Hearing-2
L33	HNSS-Pa-001	Eye & Ear Infection-1
L34	HNSS-CM-002	Hearing Loss
		Student's Activity
L35	PERLs- 2-11	Professionalism
L36	HNSS-P-017 &018	Inner Ear/ Cochlea & Organ of corti 1
L37		HOLY QURA'AN / ISLAMIAT / PAK STD
L38	HNSS-P-017 &018	Inner Ear/ Cochlea & Organ of corti 2
L39	HNSS-A-012&013	Oral Cavity (Hard&Soft Palate,Tongue & Tonsils)
L40	HNSS-A-046	Ear-2

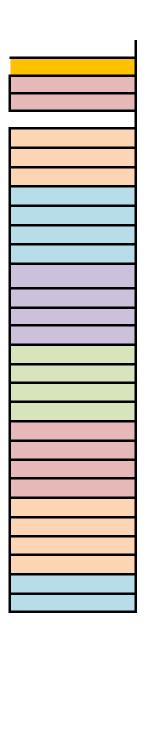
L41	HNSS-Pa-001	Eye & Ear Infection-2
L42		Determination of Sound Frequency & Loudness
L43	HNSS-P-021	Auditory Pathway
L43	HNSS-A-040	Lips And Palate
L44 L45	HNSS-A-040	1
		Tongue & Taste Buds
L46	HNSS-A-038	Face & Nasolacrimal Duct
L47	016 021 27	Ent Clinical Correlation
L48		Sense of Taste & Excitation of Taste Buds
L49	HNSS-A-008&009	Face & Danger Area
		Students' Activity
		independence day
L50	HNSS-A-011&014	Salivary Glands
L51	111100-1 -024 Q	Apriorinalities of Taste Sensations & Taste Freierence
L52		HOLY QURA'AN / ISLAMIAT / PAK STD
L53	1 11400-74- 042 042 044	Head & Neck (Glands)
L54	HNSS-A-008	Facial Nerve
L55	PERLs- 2-13	Ethics
L56	HNSS-A-008	Facial Artery
L57	HNSS-BhS-001	Pain-1
L58	HNSS-A-017	Cervical Vertebrae
L59	ПNЭЭ-A-030,030	rnaryngear Apparatus, rnaryngear Arches And their
L60	9027 HNSS-A-018	Prevertebral Muscles
L61	HNSS-B-001	Metabolism of Mono & Disaccharides-2
L62	HNSS-A-035,036	Congenital Anomalies
L63	·	Deep Cervical Fascia& Fascial Spaces
L64	PERLs- 2-15	Leadership
L65	HNSS-A-022&023	Neck Muscles & Ansa Cervicalis
L66	TINOU-A-	mangles of Neck & Contents of Neck (Trachea,
L67	HNSS-A-008	Footbodus & Thyroid Clond) Trigeminal Nerve
L68	HNSS-Ag-002	Head & Neck (Age Changes of Mandible)
T (0	LINICC D 004	Student's Activity
L69	HNSS-B-001	Metabolism of Mono & Disaccharides-3
L70	HNSS-A-027&028	Blood Supply & Lymphatic Drainage of Head & Neck
L71	LINIOS A 00-	HOLY QURA'AN / ISLAMIAT / PAK STD
L72	HNSS-A-007	Muscles of Facial Expression
L73	HNSS-A-018	Prevertebral Muscles
L74	PERLs- 2-12	Professionalism
L75	HNSS-A-012&013	Oral Cavity (Hard&Soft Palate,Tongue & Tonsils)
L76	HNSS-B-001	Metabolism of Mono & Disaccharides-4
L77	HNSS-A-039	Nose
L78	HNSS-A-017	Cervical Vertebrae
L79	11N33-A-	Triangles of Neck & Contents of Neck (Trachea,
L80	HNSS-B-001	Metabolism of Mono & Disaccharides-5
L81	11N33-A-033,030	Congenital Anomalies

	IIINSS-A-	
L82	024.25.8-26	Triangles of Neck & Contents of Neck (Trachea,
L83		
L84	HNSS-A-032&034	Pharynx
L85	020 0208021	Cervical Plexus
L86	HNSS-Ag-001	Deafness (ENT)
L87	HNSS-A-033	Larynx
		Students' Activity
L88	HNSS-P-026	Physiology of Smell
L89	PERLs- 2-14	Research
L90		HOLY QURA'AN / ISLAMIAT / PAK STD
L91	HNSS-BhS-001	Pain-2
L92		SDL
L93		SDL
L94		SDL
L95		SDL
L96		SDL
L97		SDL
L98		SDL
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L110		SDL
L111		SDL

Discipline Anatomy Histology Physiology Anatomy Physiology Embryology Anatomy Physiology Physiology Embryology Anatomy Physiology Physiology Anatomy Biochemistry i nysio/Opinamioio Physiology Community Med Physiology Histology Embryology Anatomy Physiology Anatomy Anatomy Physiology Embryology Histology Community Med Physiology Pathology Community Med PERLs Physiology Physiology Anatomy Histology

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PERLs
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Behavioral Sciences
Anatomy
Embryology
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PERLs
Anatomy
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Aging/Anatomy
Biochemistry
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Anatomy
Aging/ENT
Anatomy
Physiology
PERLs
Behavioral Sciences



Subjects	UHS Hours	Weightage	SMC Hours	Practicals
Anatomy	56	40%	37	
Histology	8	6%	5	7
Embryology	15	11%	10	
Physiology	30	22%	20	7
Biochemistry	7	5%	5	3
Community Medicine	7	5%	5	
Behavioral Sciences		0%	0	
Pathology	9	6%	6	
Pharmacology		0%	0	
Aging	3	2%	2	
PERLs	4	3%	3	
Clinical Skills				2
	139		91	19

SGDs	Practical SMC		
8		139	91
	6	139	91
		139	91
4	6	139	91
4	4	139	91
		139	91
		139	91
		139	91
		139	91
		139	91
		139	91
	2		
16	18		

TABLE OF SPECIFICATION - ASSESSMENT 01

(04-07-24)

Head & NECK YEAR-II, MBBS

No.	Disciplines	# of Lectures	Weightage	MCQs	SAQs
	Anatomy	5	29%	10.3	
1	Histology	1	6%	2.1	0.9
	Embryology	2	12%	4.1	
	Physiology	6	35%	12.4	
2	Physiology/Opthalmology	1	6%	2.1	1.1
	Physiology/ENT	0	0%	0.0	
3	Biochemistry	1	6%	2.1	0.2
4	Pathology	0	0%	0.0	0.0
5	Community Medicine	1	6%	2.1	0.2
6	Behavioral Sciences	0	0%	0.0	0.0
7	Aging/Anatomy	0	0%	0.0	0.0
8	Aging/ENT	0	0%	0.0	0.0
	Assessment 01	17	100%	35	2
	Total Marks = (50)			(35)	(15)

(Note: Course contents are of Week 01)

(Version 01)

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Dr. Ayesha Riaz Module Organizer

TABLE OF SPECIFICATION - ASSESSMENT 01

(04-07-24)

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5	Community Medicine	1	6%	2.1	0.2
6	Behavioral Sciences	0	0%	0.0	0.0
7	Aging/Anatomy	0	0%	0.0	0.0
8	Aging/ENT	0	0%	0.0	0.0
	Assessment 01	17	100%	35	2
	Total Marks = (50)			(35)	(15)

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7	Aging/Anatomy	0	0%	0.0	0.0
8	Aging/ENT	0	0%	0.0	0.0
	Assessment 01	17	100%	35	2
	Total Marks = (50)			(35)	(15)

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7	Aging/Anatomy	0	0%	0.0	0.0
8	Aging/ENT	0	0%	0.0	0.0
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(Note: Course contents are of Week 01)

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7	Aging/Anatomy	0	0%	0.0	0.0
8	Aging/ENT	0	0%	0.0	0.0
	Assessment 01	17	100%	35	2
	Total Marks = (50)			(35)	(15)

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5	Community Medicine	1	6%	2.1	0.2
6	Behavioral Sciences	0	0%	0.0	0.0
7	Aging/Anatomy	0	0%	0.0	0.0
8	Aging/ENT	0	0%	0.0	0.0
	Assessment 01	17	100%	35	2
	Total Marks = (50)			(35)	(15)

(Note: Course contents are of Week 01)

(Version 01)

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Dr. Ayesha Riaz Module Organizer

RENAL-I MODULE (2K24)

Le	Lectures:					
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Wks	Day	Lect No.	Code	Title	Discipline	
	L					
	Mon					
				GIT&N		
	d)					
	Tue					
		L1	R-A-008	Development of urinary system I	Embryology	
01	p	L2	R-P-001	Body fluid compartment I	Physiology	
Wk 01	Wed	L3	R-B-001, R-B-002	Protein digestion and absorption, reabsorption,	Biochemistry	
		L4	R-P-001	Body fluid compartment II	Physiology	
		L5	R-A-001	Kidney I	Gross Anatomy	
	n	L6	R-P-003	Functions of kidneys	Physiology	
	Thu	L7	R-B-003, RB-004	Protein Metabolism/ Amino acid pool and nitrogen balance,	Biochemistry	
		L8	R-A-009, R-A-010	Structure of kidney, Juxtaglomerular apparatus	Histology	
		L9	R-P-006	Renal blood flow - Urine formation I	Physiology	
	Fri	L10	R-B-005, RB-006	Protein Metabolism/Transamination, Protein	Biochemistry	
	Ē	L11	THE HOLY QURA	N / ISLAMIAT / PAK STUDIES / CIVICS		
		L12	R-A-001	Kidney II	Gross Anatomy	
		L13	R-A-001	Kidney III	Gross Anatomy	
	Mon	L14	R-P-006	Renal blood flow - Urine formation II	Physiology	
	Σ	L15	R-B-007, R-B-008	Protein Metabolism/Deamidation,Decarboxylation	Biochemistry	
		L16	R-P-007	Glomerular filtration I	Physiology	
		L17	R-A-002 Ureter		Gross Anatomy Physiology	
	Tue			R-P-007 Glomerular filtration II		
	-	L19	R-Pa-001	Renal Stones	Pathology	
		L20	R-Pa-004	Glomerulonephritis I	Pathology	
2						
Wk 02	Wed			LABOUR DAY		
>	>					
		T 21	D D 007	Glomerular filtration III	D1 ' 1	
		L21 L22	R-P-007 R-B-010	Protein Metabolism/ Urea cycle, ammonia	Physiology	
	Thu	L22 L23	R-Pa-004	Glomerulonephritis II	Biochemistry Pathology	
		L23	R-P-008	Reabsorption - tubular processing - I	Physiology	
		L24	R-Pa-002	Hydronephrosis	Pathology	
		L25	R-P-008	Reabsorption - tubular processing - II	Physiology	
	Fri	L27		N / ISLAMIAT / PAK STUDIES / CIVICS	Tilyslology	
		L28	R-P-009, 010	Clearance method, Transport maximum	Physiology	
		L29	R-P-011	Urine concentration and dilution (Countercurrent)	Physiology	
	_	L30	R-A-008	Development of urinary system II	Embryology	
	Mon	L31	R-B-009, R-B-011	Protein Metabolism/ Sources and transport of	Biochemistry	
		L32	R-P-012, 013	Obligatory urine volume, Disorders of	Physiology	
		L33	R-A-011, R-A-012	Structure of ureter, Structure of urinary bladder	Histology	
	a	L34	R-P-015	Osmoreceptor ADH Feedback System	Physiology	
	Tue	L35	R-B-012	Protein Metabolism/ Degradation of	Biochemistry	
		L36	K-P-U10, U10, U19, 021 022	Thirst, Control of ECF osmolarity	Physiology	
					, ,	

		L37	R-P-017	Renal regulation of electorlytes (potassium)	Physiology
Wk 03	þ	L38	R-CM-001	Quality of life	Community
₹	Wed	L39	R-A-003	Urinary bladder	Gross Anatomy
-		L40	R-P-020	Renal regulation of electrolytes (calcium, phosphate)	Physiology
		L41	PERLs- 2-07	Evidence Based Practitioner	PERLs
	_	L42	R-B-014 - R-B-018	Water, pH, Buffers/ Ionization of water,pH and pH scale,	Biochemistry
	Thu	L43	R-A-005	Urinary retention	Gross
		L44	R-P-023	Acid base balance-l	Physiology
		L45	R-P-023	Acid base balance-II	Physiology
		L46	R-B-013	Protein Metabolism/ inborn errors of	Biochemistry/Pedria
	Ē	L47	THE HOLY QURAN	/ ISLAMIAT / PAK STUDIES / CIVICS	j
		L48	R-A-007	Urethra	Gross Anatomy
		L49	R-P-024	Acid base disturbance	Physiology
	Ξ	L50	R-BhS-001	Dementia, uremic encephalopathy, delusion,	Behaviour sciences
	Mon	L51	R-B-019	Water, pH, Buffers/ HH equation and its	Biochemistry
		L52	R-P-025	Anion gap	Physiology
		L53	R-P-004	Micturition reflex	Physiology
	o	L54	R-B-020, R-B-021	Acid Base balance and imbalance/ Renal	Biochemistry
	Tue	L55	R-A-006	Radiograph	Gross
		L56	R-Pa-003	UTI causative agents I	Pathology
		L57	R-Ag-001	Disease prevention	Community
40	þ	L58	R-Pa-003	UTI causative agents II	Pathology
Wk04	Wed	L59	R-B-022	Acid Base balance imbalance/ Types of acid	Biochemistry/Medic
		L60	R-P-005	Abnormalities of micturition	Physiology/Patholo
	Fri Thu	L61	R-P-002, 014	Edema & Diabetes insipidus	Physiology/Medicin
		L62	R-B-023	Acid Base balance imbalance/ Tetany in	Biochemistry
		L63	R-Ph-001	Diuretics I	Pharmacology
		L64	PERLs- 2-08	Resilient & Adaptable Acute kidney injury, ormary tract injection, ormary	PERLs
		L65	K-Pa-000, K-Pa-	lincontinonas	Pathology/Medicine
		L66	R-P-025	Renal failure, dialysis & transplantation	Physiology
	ш	L67	THE HOLY QURA	N / ISLAMIAT / PAK STUDIES / CIVICS	
		L68	R-Ph-001	Diuretics II	Pharmacology
		L69	RL-Rev-01	Revision	Anatomy
	Mon	L70	RL-Rev-02	Revision	Physiology
	Σ	L71	RL-Rev-03	Revision	Embryology
		L72	RL-Rev-04	Revision	Biochemistry
		L73	RL-Rev-05	Revision	Histology
	Tue	L74	RL-Rev-06	Revision	Gross Anatomy
	É	L75	RL-Rev-07	Revision	Physiology
		L76	RL-Rev-08	Revision	Embryology
		L77	RL-Rev-09	Revision	Biochemistry
Wk 05	Wed	L78	RL-Rev-10	Revision	Histology
₹	>	L79	RL-Rev-11	Revision	Anatomy
		L80	RL-Rev-12	Revision	Physiology
		L81	RL-Rev-13	Revision	Embryology
	Thu	L82	RL-Rev-14	Revision	Biochemistry
	_	L83	RL-Rev-15	Revision	Histology
		L84	RL-Rev-16	Revision	Anatomy
		L85	RL-Rev-17	Revision	PERLs
	Ξ	L86	RL-Rev-18	Revision	Biochemistry
		L87		N / ISLAMIAT / PAK STUDIES / CIVICS	DI 1 1
		L88	RL-Rev-19	Revision	Physiology





BLOCK - 03 EXAMINATION (2K23)

MODULES:

CARDIOVASCULAR-I & RESPIRATORY-I MODULES

WEEK 1	09:00am – 12:pm		
WOIV	options) - 85 MCQs (110 min) - 85 Marks (1 Mark/MCQ)	LECTURE HALL # 4 LECTURE HALL # 5	: Roll #: 1-50 : Roll #: 51-101
05-09-23	OSPE (Observed): 07 Stations - 56 Marks (8 marks/station) - (8	OSPE/OSCE (Anat Lab) OSPE/OSCE (Physio Lab) OSPE/OSCE (Bio Lab)	: Batch - A : Batch - B : Batch - C
WED 06-09-23		STRUCTURED VIVA (Anatomy) STRUCTURED VIVA (Physiology) STRUCTURED VIVA (Biochemistry)	: Batch - A : Batch - B : Batch - C
THU 07-09-23	BLOCK - 3 EXAMINATION (Oral Examination) - 120 Marks	STRUCTURED VIVA (Anatomy) STRUCTURED VIVA (Physiology) STRUCTURED VIVA (Biochemistry)	: Batch - B : Batch - C : Batch - A
FRI 08-09-23		STRUCTURED VIVA (Anatomy) STRUCTURED VIVA (Physiology) STRUCTURED VIVA (Biochemistry)	: Batch - C : Batch - A : Batch - B

<u>Version 0</u> (Batch-A: 1-33) (Batch-B: 34-66) (Batch-C: 67-100)

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YEAR-I MBBS WEEKLY SCHEDULE

WEEK-SPROTS:

4/22/2024 TO 4/26/2024

SPORTS WEEK	08:00am – 03:00Pm	
MON		
22-04-24	SPROTS DAY 01	
TUE		
23-04-24	SPROTS DAY 02	< > Apr
		Su Mo Tu 31 1 2
WED		7 8 9
24-04-24	SPROTS DAY 03	14 15 16 21 22 23
		28 29 30
THU		1
25-04-24	SPROTS DAY 04	
FRI		
26-04-24	SPROTS DAY 05	

Version 03

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CARDIOVASCULAR SYSTEM (CVS 224) – Academic Activities



Lect	Lectures:						
No.	Title	Discipline	Faculty - Male	Faculty - Female			
	Orbital Cavity &EOM	Anatomy	Dr. Gamal Alsayed	Dr. Hanan Elgendy			
#REF!	Physical priciples of optics	Physiology	Dr. Abdelnaser	Dr. Manal			
#REF!	#REF!	#REF!	Dr. Gamal Alsayed	Dr. Hanan Elgendy			
#REF!	Optic Nerve, Opthalmic Artery & Pterygopalatine ganglion	Anatomy	Dr. Ashfaque Memon	Dr. Eman Zakariya			
#REF!	Visual Acquity-1	Physiology	Dr. Ashfaque Memon	Dr. Eman Zakariya			
#REF!	Eye-1	Embryology	Dr. Gamal Alsayed	Dr. Hanan Elgendy			
#REF!	Visual Acquity-2	Physiology	Dr. Gamal Alsayed	Dr. Hanan Elgendy			
#REF!	Fluid System of Eye & Eye Movement	Physiology	Dr. Abdelnaser	Dr. Manal			
#REF!	#REF!	Embryology	Dr. Abdelnaser	Dr. Manal			
#REF!	Eyeball-2	Anatomy	Dr. Hafeezullah Wazir	Dr. Sanchita Chakravarti			
#REF!	Photochemistry of Vision & Colour Vision 1	Physiology	Dr. Saad Elshafey	Dr. Naglaa Ahmed			
L1	Clinical Correlation of Eye-1	Physio/Opthalmology	Dr. Gamal Alsayed	Dr. Hanan Elgendy			
L2	Eyelid & Lacrimal Apparatus	Anatomy	Dr. Farmanullah Wazir	Dr. Sanchita Chakravarti			
L3	Metabolism of Mono & Disaccharides-1	Biochemistry	Dr. Saad Elshafey	Dr. Naglaa Ahmed			
L4	#REF!	#REF!	Dr. Shamaun Razi	Dr. Sanchita Chakravarti			
L5	#REF!	#REF!	Dr. Jawed Aziz	Dr. Afaf			
L6	#REF!	#REF!	Dr. Romany	Dr. A'asha Mohammad			
L7	#REF!	#REF!	Dr. Hafeezullah Wazir	Dr. Mona Abdelazim			
L8	Photochemistry of Vision & Colour Vision 2	Physiology	Dr. Jawed Aziz	Dr. Hala			
L9	#REF!	#REF!	Dr. Romany	Dr. A'asha Mohammad			
L10	#REF!	#REF!	Dr. Gamal Alsayed	Dr. Hanan Elgendy			
L11	Visual Pathways & Field of Vision	Physiology	Dr. Shamaun Razi	Dr. Sanchita Chakravarti			
L13	Ear-1	Embryology	Dr. Gamal Alsayed	Dr. Saima Shahbaz			
#REF!	#REF!	#REF!	Dr. Hafeezullah Wazir	Dr. Nagwa Fathi			
L14	Determination of Sound Frequency & Loudness	Physiology	Dr. Sajid H. Shah	Dr. Afaf			
L15	External &Middle Ear Cavity	Anatomy	Dr. Hafeezullah Wazir	Dr. Nagwa Fathi			
0	Accomodation & Pupillary Light Reflex	Physiology	Dr. Amgad Abou Ouf	Dr. Amgad Abou Ouf			
L16	#REF!	#REF!	Dr. Sajid H. Shah	Dr. Hala			
#REF!	#REF!	#REF!	Dr. Amgad Abou Ouf	Dr. Amgad Abou Ouf			
<u>L17</u>	Internal Ear, 8th Nerve & Auditory Pathway	Anatomy	Dr. Hafeezullah Wazir	Dr. Nagwa Fathi			
No.	Title	Discipline	Faculty - Male	Faculty - Female			

L18	Sense of Hearing-1	Physiology	Mr. Hassan Hussein	Dr. Eman Zakariya
#REF!	#REF!	#REF!	Dr. Farmanullah Wazir	Dr. Mona Abdelazim
#REF!	Professionalism	PERLs	Dr. Mohamed Soliman	Dr. Soha Ibraheim
L23	Inner Ear/ Cochlea & Organ of corti 1	Physiology	Dr. Farmanullah Wazir	Dr. Mona Abdelazim
L25	Inner Ear/ Cochlea & Organ of corti 2	Physiology	Dr. Gamal Alsayed	Dr. Saima Shahbaz
L26	Oral Cavity (Hard&Soft Palate,Tongue & Tonsils)	Anatomy	Dr. Farmanullah Wazir	Dr. Sanchita Chakravarti
L27	Ear-2	Pathology	Dr. Anil Mohen	Dr. Hala
L28	Eye & Ear Infection-2	#REF!	Dr. Farmanullah Wazir	Dr. Nagwa Fathi
#REF!	Tongue & Taste Buds	Anatomy	Dr. Sajid H. Shah	Dr. Afaf
#REF!	Face & Nasolacrimal Duct	Embryology	Mr. Hassan Hussein	Dr. A'asha Mohammad
L35	Ent Clinical Correlation	Physiology	Dr. Shamaun Razi	Dr. Mona Abdelazim
L36	Sense of Taste & Excitation of Taste Buds	Physiology/ENT	Dr. Hafeezullah Wazir	Dr. Mona Abdelazim
L37	Face & Danger Area	Anatomy	Dr. Shamaun Razi	Dr. Mona Abdelazim
L38	Professionalism	PERLs	Mr. Hassan Hussein	Dr. Eman Zakariya
#REF!	#REF!	#REF!	Dr. Ahmed Hammad	Dr. Sharouq Awad
#REF!	#REF!	#REF!	Dr. Ahmed Hammad	Dr. Shireen Olama
#REF!	#REF!	#REF!	Dr. Abdelnaser	Dr. Manal
#REF!	#REF!	#REF!	Dr. Omer Afzal	Dr. Rasha Abdul

Practicals:

i ucticuis:						
Title	Discipline	Faculty - Male	Faculty - Female			
#REF!	#REF!	Dr.Konsua, Dr.Amjad, Mr.Hassan	Dr.Hanan, Dr.Saima			
#REF!	#REF!	Dr.Konsua, Dr.Amjad, Mr.Hassan	Dr.Hanan, Dr.Saima			
#REF!	#REF!	Dr. Saad Elshafey	Dr. Naglaa / Ms. Nermeen			
#REF!	#REF!	Mr. Hussein	Dr. Manal			
#REF!	#REF!	Dr. Sajid, Dr. Anil, Dr. Iqbal, Dr. Rashad	Dr.Hala, Dr.Afaf			
#REF!	#REF!	Dr.Hafeezullah, Mr.Zulfiqar	Dr. Nagwa, Ms. Saima			
#REF!	#REF!	Dr. Sajid, Dr. Anil, Dr. Iqbal, Dr. Rashad	Dr.Hala, Dr.Afaf			
#REF!	#REF!	Dr. Sajid, Dr. Anil, Dr. Iqbal, Dr. Rashad	Dr.Hala, Dr.Afaf			
#REF!	#REF!	Dr.Farmanullah, Mr.Zulfiqar	Dr. Sanchita, Ms. Saima			
#REF!	#REF!	Mr. Hussein	Dr. Manal			
	#REF!	#REF!	Title Discipline #REF! #REF! Dr.Konsua, Dr.Amjad, Mr.Hassan #REF! Dr.Konsua, Dr.Amjad, Mr.Hassan #REF! Dr. Saad Elshafey #REF! Mr. Hussein #REF! #REF! Dr. Sajid, Dr. Anil, Dr. Iqbal, Dr. Rashad #REF! #REF! #REF! Dr. Sajid, Dr. Anil, Dr. Iqbal, Dr. Rashad #REF! #REF! #REF! Dr. Sajid, Dr. Anil, Dr. Iqbal, Dr. Rashad #REF! #REF! #REF! Dr. Sajid, Dr. Anil, Dr. Iqbal, Dr. Rashad #REF! #REF! #REF! Dr. Sajid, Dr. Anil, Dr. Iqbal, Dr. Rashad #REF! #REF! #REF! Dr. Sajid, Dr. Anil, Dr. Iqbal, Dr. Rashad			

Tutorials:

No.	Title	Discipline	Faculty - Male	Faculty - Female
#REF!	#REF!	#REF!	Dr. Jawed, Dr. Sajid, Dr. Anil, Dr. Rashad	Dr. Hala, Dr. Afaf
#REF!	#REF!	#REF!	Dr. Shamaun, Dr. Hafeezullah, Dr. Farmanullah	Dr. Mona, Dr. Sanchita, Dr. Nagwa