HEAD AND NECK MODULE

STUDY GUIDE

MBBS YEAR II

2022-2023

BAQAI MEDICAL COLLEGE

BAQAI MEDICAL UNIVERSITY

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Contents

LIST OF ABBREVIATIONS

Ana-Lect	Anatomy Lecture	CBL	Case Based Learning
DSL	Directed Self Learning	SDL	Self-directed learning
SGD	Small Group Discussion	DSL	Directed Self learner
PW	Practical Work	OSCE	Objective Structured Clinical Examination
MCQ	Multiple Choice Question	Phy-Lect	Physiology Lecture
BMU	Baqai Medical University	Bio-Lect	Biochemistry Lecture
BMC	Baqai Medical College	PEaRLS	**P**rofessionalism, **E**thics, **R**esearch, **L**eadership,Communication **S**kills.
LGIF	Large group interactive format	SGIF	Short group interactive format
TS	Teaching strategy		

BAQAI MEDICAL UNIVERSITY VISION STATEMENT

To evolve as a nucleus for higher learning with a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level.

BAQAI MEDICAL UNIVERSITY MISSION STATEMENT

University is dedicated to the growth of competencies in its potential graduates through dissemination of knowledge for patient care, innovation in scholarship, origination of leadership skills, and use of technological advancements and providing.

BAQAI MEDICAL COLLEGE MISSION STATEMENT

The mission of the Baqai medical college is to produce medical graduates, who are accomplished and responsible individuals and have skills for problem solving, clinical judgment, research & leadership for medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.

OUTCOMES OF THE MBBS PROGRAM

By the end of five years MBBS program, The Baqai Medical College graduate will be able to:

- Write and report focused history, perform physical examination, formulate a diagnosis and management plan for common health problems.
- Utilize knowledge of basic and clinical sciences for patient care.
- Apply evidence-based practices for protecting, maintaining and promoting the health of individuals, families and community.
- Identify problems, critically review literature, conduct research and disseminate knowledge.
- Lead other team members as per situational needs for quality health service.

Acquire professional behaviours that embodies lifelong learning, altruism, empathy and cultural sensitivity in provision health care service.

2nd Year MBBS Modular Committee

Dr. Rashid (Anatomy)	Chairman 2nd Modular Committee and Head of CBL Team
Dr. Shahid Pervez (Anatomy)	2nd Year MBBS Study Guide Team coordinator
Dr. Benish (Biochemistry)	2nd Year MBBS Study Guide Team member-1
Dr. Asma Siddiqui (Physiology)	2nd Year MBBS Study Guide Team member-2
Dr. Mubashara (Anatomy)	Time table developing team member-1
Dr. Saba Abrar (Physiology)	Time table developing team member-2
Dr. Farhan Sabir (Biochemistry)	Time table developing team member-3
Dr. Adnan (Physiology)	2nd year MBBS Assessment Team Coordinator
Ms. Eraj (Biochemistry)	Assessment Team Member-1

Dr. Mubashara (Anatomy)	Assessment Team Member-2
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Dr. Saba Ikram (Anatomy)	CBL Team member-2
Dr. Nauman (Community Medicine)	Member
Dr. Muhammad Salman khan (Pathology)	Member
Dr. Hina (Pharmacology)	Member
Dr. Rafay (Forensic Medicine)	Member
Dr. Sidra (Surgery & allied)	Member
Dr. Anita Haroon (Medicine & Allied)	Member
Ms. Eraj Abbas (Research)	Member
Dr. Saadia (Gynae & Obs)	Member
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Introduction:

The Head and Neck Module is the fourth module for 2nd Year MBBS Integrated Modular Curriculum for MBBS program. It will give an introduction and

awareness about the curriculum of head and neck in general along with the teaching and learning environment. This module includes basic anatomical, physiological and biochemical concepts in relation to the head and neck and its link with clinical aspects related to the diseases of head and neck region. It also includes the basis of research and orientation about the clinical sciences. The curriculum will be delivered in the form of interactive large and small group formats including lectures, SGDs, practical and DSL.

Duration	8 weeks
Dates	17-08-2022 to 07-10-2022
Placement in Course	4th Module of 2nd Year MBBS
EOA (End of module Assessment)	10th October, 2022 (Subject to minor changes)

Distribution of Teaching Activities

Learning Objectives:

ANATOMY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
BONES AND JOINTS OF SKULL (LEC-1)			
• Identify the bones and norma of skull. • Identify the different norma. • Identify the important landmarks of each bone. • Describe the joints of skull and their attachments. • Describe the important clinical significance of specific Landmarks.	LGIS	1 hour	Lecture Hall-2 Block-A
NORMA VERTICALIS AND OCCIPITALIS (LEC-2)			
• Identify the norma verticalis and occipitalis. • Identify the bones of each norma. • Identify the important landmarks of each bone. • Identify the foramina. • Describe the contents of each foramina.	LGIS	45 minutes	Lecture Hall-2 Block-A

• Describe the attachments of norma verticalis and occipitalis.			
NORMA FRONTALIS (LEC-3)			
• Identify the norma frontalis. • Identify the bones of norma. • Identify the important landmarks of norma frontalis. • Identify their foramina. • Describe the contents of each foramina. • Describe the attachments of norma frontalis.	LGIS	2 hours	Lecture Hall-2 Block-A
NORMA LATERALIS (LEC-4)			
• Identify the norma lateralis. • Identify the bones of norma. • Identify the important landmarks of norma lateralis. • Identify their foramina. • Describe the contents of each foramina. • Describe the attachments of norma lateralis.	LGIS	2 hours	Lecture Hall-2 Block-A
NORMA BASALIS-I (LEC-5)			

• Identify the norma basalis. • Identify the bones of norma. • Identify the important landmarks of norma basalis. • Identify their foramina. • Describe the contents of each foramina.	LGIS	1.45 hour	Lecture Hall-2 Block-A
NORMA BASALIS-II (LEC-6)			
• Describe the attachments of norma basalis. • Describe the important clinical significance of specific landmarks.	LGIS	2 hours	Lecture Hall-2 Block-A
MANDIBLE AND TMJ (LEC-7)			
• Identify the mandible bone. • Identify the various parts of mandible. • Identify the important landmarks of mandible. • Identify their foramina. • Describe the contents of each foramina. • Identify the temporo-mandibular joint. • Describe the articular surfaces involved in it? • Describe the ligaments. • Describe the movements of it with the muscles involved.	LGIS	2 hours	Lecture Hall-2 Block-A

• Describe the neuro vascular supply of it.			
DEVELOPMENT OF SKULL (EMB LEC-1)			
• Describe the development of skull. • Describe the various anomalies of skull development.	LGIS	1 hour	Lecture Hall-2 Block-A
SCALP (LEC-8)			
• Describe the structure of the scalp. • Describe the muscles innervation, vascular supply & lymphatic drainage of the scalp. • Describe the applied anatomy of the scalp.	LGIS	1 hour	Lecture Hall-2 Block-A
SKULL OSTEOLOGY (SGT-1)			
• Identify the norma. • Identify the bones of each norma. • Identify the important landmarks of each bone. • Identify the foramina. • Describe the contents of each foramina. • Describe the attachments of the skull. • Describe the important	SGIS	2 hours	Lecture Hall-2 Block-A

clinical significance of specific landmarks.			
HISTOLOGY OF SCALP (HIS LEC-1)			
• Gross features of scalp. • Describe the histological features of scalp. • Describe the various cells of scalp.	LGIS	1 hour	Lecture Hall-2 Block-A
CERVICAL VERTEBRAE (LEC-9)			
• Identify the vertebral column. • Identify the bones of cervical vertebra. • Identify the important landmarks of each bone. • Identify the foramina present in them. • Describe the contents of foramina. • Describe the attachments of the muscles. • Describe the important clinical significance of cervical vertebra.	LGIS	2 hours	Lecture Hall-2 Block-A
INFRA TEMPORAL FOSSA (LEC-10)			

• Describe the infra temporal fossa. • Describe the boundaries of infra temporal fossa. • Identify the muscles of the fossa with their attachment, action & innervation. • Describe arteries, veins, nerves & lymphatic of the infra temporal fossa.	LGIS	2 hours	Lecture Hall-2 Block-A
DEVELOPMENT OF PHARYNGEAL APPARATUS (EMB LEC-2)			
• Describe the development of Pharyngeal apparatus. • Describe the various anomalies of Pharyngeal apparatus development.	LGIS	1 hour	Lecture Hall-2 Block-A
ORBITAL CAVITIES, BOUNDARIES & OCULAR MUSCLES (LEC-11)			
• Describe the orbital cavity. • Describe the boundaries of orbital cavity. • Describe the ocular muscles. • Describe the actions and nerve supply of ocular muscles.	LGIS	1 hour	Lecture Hall-2 Block-A
CONTENTS OF ORBIT (LEC-12)			

• Describe the orbit. • Describe the boundaries of and contents of orbit. • Describe the clinical importance of contents of orbit.	LGIS	45 minutes	Lecture Hall-2 Block-A
EYE BALL (LEC-13)			
• Describe the structures & contents of the eye ball. • Describe the extrinsic & intrinsic muscles of the eye ball. • Describe the neuro vascular supply of the eye ball. • Describe the clinical related to the eye.	LGIS	2 hours	Lecture Hall-2 Block-A
DEVELOPMENT OF EYE (EMB LEC-3)			
• Describe the developmental stages of Eye. • Describe the various anomalies of Eye development.	LGIS	1 hour	Lecture Hall-2 Block-A
EYE LID AND LACRIMAL GLAND (LEC-14)			
• Describe the eye lid and their parts. • Describe lacrimal glands.	LGIS	1 hour	Lecture Hall-2 Block-A

• Describe the structure of lacrimal bone and its location. • Describe the characteristic features of different cells of lacrimal glands and their secretions.			
HISTOLOGY OF EYE (HIS LEC-2)			
• Describe the gross and microscopic structure of eye. • Describe the histological features of the layers of eye. • Describe the various cells of eye.	LGIS	1 hour	Lecture Hall-2 Block-A
SLIDES OF SCALP (PW-1)			
• Describe the histological features of scalp. • Detail of the microanatomy of cells of layers of scalp. • Differentiate between scalp layers.	SGIS	2 hours	Histology Lab, 1st floor, Block-A
MODEL OF EYE (SGT-2)			
• Identify the orbital cavity & the bones making it. • Describe the openings of the orbit with their contents. • Identify the eye and the parts of eye.	SGIS	2 hours	Lecture Hall-2 Block-A

• Describe the structures & contents of the eye ball. • Describe the extrinsic & intrinsic muscles of the eye ball. • Describe the neuro vascular supply of the eye ball.			
MUSCLES OF FACE (LEC-15)			
• Identify the muscles of the face with attachments, actions & innervation. • Identify the muscles of facial expression with attachments, nerve supply & actions. • Describe the applied anatomy of the face muscles.	LGIS	2 hours	Lecture Hall-2 Block-A
DEVELOPMENT OF FACE-I (EMB LEC-4)			
• Describe the development of face. • Describe the various stages of face development.	LGIS	1 hour	Lecture Hall-2 Block-A
DEVELOPMENT OF FACE-II (EMB LEC-5)			
• Describe the development of face. • Describe the various anomalies of face development.	LGIS	1 hour	Lecture Hall-2 Block-A
MODEL OF FACE (PW-2)			

• Describe the structure of the face. • Describe the skin of the face with its sensory innervation. • Describe the muscles innervation, vascular supply & lymphatic drainage of the face. • Describe the applied anatomy of the face.	SGIS	2 hours	LRC Anatomy Ground floor Block-A
ORAL CAVITY AND TONGUE (LEC-16)			
• Describe the boundaries and contents of oral cavity. • Describe the permanent and deciduous teeth. • Describe the nerve supply of upper and lower teeth. • Describe the extrinsic & intrinsic muscles of the tongue. • Describe the nerve supply & lymphatic drainage of tongue.	LGIS	I.45 hour	Lecture Hall-2 Block-A
DEVELOPMENT OF TONGUE (EMB LEC-6)			
• Describe the development of tongue. • Describe the various anomalies of tongue development.	LGIS	1 hour	Lecture Hall-2 Block-A

MUSCLE OF MASTICATION (LEC-17)			
• Describe the muscles of mastication. • Describe the movements of TMJ with the muscles involved. • Describe the neuro vascular supply of it.	LGIS	1 hour	Lecture Hall-2 Block-A
HISTOLOGY OF TONGUE (HIS LEC-3)			
• Describe the microscopic features of tongue. • Describe the various tongue papillae.	LGIS	1 hour	Lecture Hall-2 Block-A
TONGUE AND ORAL CAVITY MODEL (PW-3)			
• Describe the tongue model and boundaries and contents of oral cavity. • Describe the nerve supply of upper and lower teeth. • Describe the extrinsic & intrinsic muscles of the tongue. • Describe the nerve supply & lymphatic drainage of tongue.	LGIS	2 hours	LRC Anatomy Ground floor Block-A
PAROTID AND SUBMANDIBULAR REGIONS (LEC-18)			

• Describe major & minor salivary glands. • Describe the structure of Parotid and its location. • Describe the submandibular gland. • Describe the location and openings of the parotid duct and the duct of sub-mandibular gland.	LGIS	2 hours	Lecture Hall-2 Block-A
SLIDE OF TONGUE AND SALIVARY GLANDS (PW-4)			
• Describe the microscopic features of tongue. • Describe the various tongue papillae. • Describe the microanatomy of parotid gland. • Describe the microscopic features of submandibular and sublingual salivary glands. • Describe the histological differences between serous and mucous acini of submandibular and sublingual salivary glands.	SGIS	2 hours	Histology Lab, 1st floor, Block-A
NOSE (LEC-19)			

• Describe the external nose. • Identify the structures forming medial & lateral wall of the nose. • Describe the features of the lateral wall of the nose. • Describe the blood and nerve supply of the nose.	LGIS	45 minutes	Lecture Hall-2 Block-A
PARA NASAL SINUS (LEC-20)			
• Describe the para nasal sinuses. • Identify the bones forming medial & lateral wall of the nose. • Describe the openings of the para nasal sinuses. • Describe the vascular and nerve supply of the para nasal sinuses.	LGIS	1 hour	Lecture Hall-2 Block-A
NASAL SEPTUM (SGT-3)			
• Describe the features of the nasal septum. • Identify the structures forming the nasal septum. • Describe the blood and nerve supply and innervation of the nasal septum.	SGIS	2 hours	Lecture Hall-2 Block-A

MODEL OF NOSE (PW-5)			
• Describe the nose model and boundaries and contents of nasal cavity. • Identify the structures forming medial & lateral wall of the nose. • Describe the features of the lateral wall of the nose. • Describe the blood supply of nose. • Describe the nerve supply & lymphatic drainage of nose.	SGIS	2 hours	LRC Anatomy Ground floor Block-A
EXTERNAL EAR (LEC-21)			
• Identify the parts and structures of the external ear. • Identify the neuro vascular supply of its different parts. • Describe the important clinical significance of the external ear.	LGIS	1 hour	Lecture Hall-2 Block-A
MIDDLE EAR (LEC-22)			
• Identify the parts and structures of the middle ear. • Identify the relations & functions of the structures of the middle ear.	LGIS	1 hour	Lecture Hall-2 Block-A

• Identify the neuro vascular supply of its different parts. • Describe the important clinical significance of the middle ear.			
INTERNAL EAR (LEC-23)			
• Identify the parts and structures of the internal ear. • Identify the relations & functions of the structures of the internal ear. • Identify the neuro vascular supply of its different parts. • Describe the important clinical significance of the internal ear.	LGIS	1 hour	Lecture Hall-2 Block-A
MODEL OF EAR (SGT-4)			
• Identify the ear model & the various parts of ear. • Describe the openings of the ear with their contents. • Identify the parts of external, middle and internal ear. • Describe the structures & contents of the ear. • Describe the bones of ear. • Describe the neuro vascular supply of the ear.	SGIS	2 hours	Lecture Hall-2 Block-A

VESTIBULOCOCHLEAR NERVE (LEC-24)			
• Describe the vestibulocochlear nerve and its branches. • Identify its pathway and relations. • Identify the structures supplied by vestibulocochlear nerve.	LGIS	1 hour	Lecture Hall-2 Block-A
DEEP CERVICAL FASCIA AND PLATYSMA MUSCLE (LEC-25)			
• Describe the deep cervical fascia and its location. • Describe the relations of deep cervical fascia.. • Describe platysma muscle. • Describe its attachment. Mention its nerve supply and actions.	LGIS	1 hour	Lecture Hall-2 Block-A
PRE-VERTEBRAL FASCIA (LEC-26)			
• Describe the pre-vertebral fascia and its location. • Describe the relations of carotid sheath and pre-vertebral fascia.	LGIS	45 minutes	Lecture Hall-2 Block-A
PRETRACHEAL FASCIA, CAROTID SHEATH AND TISSUE SPACES OF NECK (LEC-27)			
• Describe the pretracheal fascia and its location. • Describe the carotid sheath	LGIS	1.45 hour	Lecture Hall-2 Block-A

and their contents. • Describe the relations of carotid sheath and pretracheal fascia. • Describe the various tissue spaces of neck, their contents and their relations.			
MODEL OF NECK (PW-6)			
• Describe the model of neck. • Describe the triangles of the neck. • Describe the fascia of the neck. • Identify the muscles of the neck with their attachment, action & innervation. • Describe arteries, veins & lymphatic drainage of the neck.	SGIS	2 hours	LRC Anatomy Ground floor Block-A
STERNOCLEIDOMASTOID & TRAPEZIUS MUSCLES (LEC-28)			
• Describe the location of sternocleidomastoid muscle. • Describe the attachment of sternocleidomastoid. • Mention the nerve supply and actions of sternocleidomastoid. • Describe trapezius muscle.	LGIS	1 hour	Lecture Hall-2 Block-A

• Describe the attachment of trapezius. • Mention the nerve supply and actions of trapezius.			
ANTERIOR TRIANGLE OF NECK (LEC-29)			
• Describe the anterior triangle of the neck. • Identify the muscles of the anterior triangle of neck with their attachment, action & innervation. • Describe arteries, veins & lymphatic drainage of the anterior triangle of neck.	LGIS	45 minutes	Lecture Hall-2 Block-A
SUPRAHYOID AND INFRAHYOID MUSCLES (LEC-30)			
• Describe the location of suprahyoid and infrahyoid muscles. • Describe the attachment of suprahyoid and infrahyoid muscles. • Mention the nerve supply and actions of suprahyoid and infrahyoid muscles.	LGIS	45 minutes	Lecture Hall-2 Block-A
MODEL OF ANTERIOR TRIANGLE OF NECK (SGT-5)			
• Describe the neck and triangles of the neck. • Describe the model of anterior triangle of neck.	SGIS	2 hours	LRC Anatomy Ground floor Block-A

• Identify the muscles of the anterior triangle of neck with their attachment, action & innervation. • Describe arteries, veins & lymphatic drainage of the anterior triangle of neck.			
POSTERIOR TRIANGLE OF NECK (LEC-31)			
• Describe the posterior triangle of the neck. • Identify the muscles of the posterior triangle of neck with their attachment, action & innervation. • Describe arteries, veins & lymphatic drainage of the posterior triangle of neck.	LGIS	1.45 hour	Lecture Hall-2 Block-A
CERVICAL PLEXUS (LEC-32)			
• Identify the nerve root of cervical plexus. • Describe the formation of cervical plexus. • Identify the nerves & their supply.	LGIS	2 hours	Lecture Hall-2 Block-A
ACCESSORY NERVE (LEC-33)			
• Describe the accessory nerve and its branches. • Identify its pathway and relations.	LGIS	1 hour	Lecture Hall-2 Block-A

• Identify the structures supplied by accessory nerve.			
LYMPHATIC DRAINAGE OF NECK (LEC-34)			
• Describe the structure of the neck. • Describe the lymphatic drainage of the neck. • Describe the applied anatomy of the lymphatic drainage of the neck.	LGIS	1 hour	Lecture Hall-2 Block-A
ARTERIES OF NECK (LEC-35)			
• Describe the various structures of the neck. • Describe arterial supply of the neck. • Describe the applied anatomy of arteries of the neck.	LGIS	1.45 hour	Lecture Hall-2 Block-A
VEINS OF NECK (LEC-36)			
• Describe the various structures of the neck. • Describe venous drainage of the neck. • Describe the applied anatomy of the venous drainage of neck.	LGIS	2 hours	Lecture Hall-2 Block-A
MODEL OF THYROID (SGT-6)			
• Describe the neck and triangles of the neck.	SGIS	2 hours	LRC Anatomy Ground floor

• Describe the model of thyroid. • Describe the structure of thyroid and identify their location & relations. • Describe their nerve supply, blood supply, functions & vasculature.			Block-A
ROOT OF NECK (LEC-37)			
• Describe the landmarks and fascia of the root of neck. • Describe the structures passing through the root of neck. • Describe the arterial supply, cutaneous nerve supply & venous drainage of the root of neck.	LGIS	1.45 hour	Lecture Hall-2 Block-A
CERVICAL SYMPATHETIC TRUNK (LEC-38)			
• Discuss the organization of the autonomic nervous system. • Describe the sympathetic and parasympathetic nervous system. • Describe cervical sympathetic trunk. • Describe the sympathetic autonomic ganglia.	LGIS	1.45 hour	Lecture Hall-2 Block-A

• Describe some important autonomic innervations. • Discuss some important reflexes involving the nervous system.			
CRANIAL NERVES OF HEAD AND NECK-I (LEC-39)			
• Describe the cranial nerves and their branches. • Identify their pathway and relations. • Identify the structures of head and neck supplied by cranial nerves. • Describe the olfactory nerve, branches, and its pathway. • Identify optic, oculomotor, trochlear, abducent nerves their pathway branches and relations. • Describe the trigeminal nerve, branches, and its pathway.	LGIS	1.45 hour	Lecture Hall-2 Block-A
CRANIAL NERVES OF HEAD AND NECK-II (LEC-40)			
• Describe the cranial nerves of head and neck. • Describe the facial nerve, branches, and its pathway. • Identify vestibulocochlear	LGIS	1.45 hour	Lecture Hall-2 Block-A

nerve and its branches. • Describe the glassophalangeal nerve, its branches, and pathway. • Describe the vagus cranial nerve and its branches. • Describe the accessory nerve pathway and its branches. • Identify hypoglossal nerve, its pathway and relations.			
HEAD AND NECK SPECIMEN (PW-7)			
• Describe the specimens of head and neck. • Describe their identification points. • Identify the muscles of the head and neck with their attachment. • Describe arteries, veins & lymphatics of the head and neck.	SGIS	2 hours	LRC Anatomy Ground floor Block-A

PHYSIOLOGY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
PHYSIOLOGIC ANATOMY OF EYE (LEC-1)			
• To determine the Functional anatomy of eye.	LGIS	45 minutes	Lecture hall 2, ground floor, Block-A

• Describe the Photoreceptor mechanism Image-forming. • Explain and discuss the mechanism of Visual pathway Visual acuity, light and dark adaptations Color Vision eye**.**			
EYE BALL & EXTRAOCULAR MUSCLE MOVEMENT (LEC-2)			
• Describe the physiological anatomy of extraocular muscles. • Review the muscles and functions of the eyelid. • Discuss the function and innervation of the orbicularis oculi, levator palpebral superiors and superior tarsal muscles.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
ACCOMMODATION-I (LEC-3)			
• Explain the accommodation reflex. • Describe the structures involved in accommodation. • Discuss the extrinsic eye muscles which are the prime movers in convergence.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A

ACCOMMODATION-II (LEC-4)			
• Understand the basic mechanism of accommodation and clinical importance of anomalies of accommodation. • Understand the pathway for the near reflex and importance of convergence insufficiency.	LGIS	45 minutes	Lecture hall 2, ground floor, Block-A
MECHANISM OF REFRACTION (LEC-5)			
• Describe refraction. • Draw ray diagrams for mechanism of refraction. • Discuss the refractive errors of eye.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A.
STRABISMUS & HORNER'S SYNDROME (LEC-6)			
• Develop improved methods to manage complex strabismus disorders through exposure to advanced surgical techniques. • Recognize strabismus secondary to underlying neurologic disease and initiate appropriate diagnostic workup for such processes.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A

• Review the physiologic anatomy of the oculo-sympathetic pathway. • Discuss the Common causes of this syndrome.			
VISUAL ACTIVITY & COLOR VISION (PW-1)			
• To overview different methods of measuring visual acuity. • To compare the outline of the errors in each eye. • To indicate the advantages of different chart designs for different patient groups. • To prepare on interpreting VA measurements taken with different charts. • Explain the simple theory of color vision. • Outline the coloring properties of light sources. • Describe the theory of color vision.	SGIS	2 hours	Physiology lab, 1st floor, Block-A
VISUAL ACUITY & COLOR VISION (LEC-7)			
• To overview different methods of measuring visual acuity.	LGIS	45 minutes	Lecture hall 2, ground floor, Block-A

• To compare the outline of the errors in each eye. • To indicate the advantages of different chart designs for different patient groups. • To advice on interpreting visual acuity measurements taken with different Ischihara charts. • Describe the theory of color vision.			
PHOTOCHEMISTRY OF VISION (LEC-8)			
• Review the physiologic anatomy of light receptors. • Compare and contrast the rods and cones. • Describe in detail the photochemistry of vision.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
LIGHT & DARK ADAPTATIONS (LEC-9)			
• Describe the receptor potential of rods and cones. • Describe dark and light adaptations. • Explain color vision and color blindness.	LGIS	45 minutes	Lecture hall 2, ground floor, Block-A
VISUAL PATHWAY (LEC-10)			

• List the cells of the neural pathway. • Explain the visual pathway up to the visual cortex.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
FIELD OF VISION (LEC-11)			
• Describe the optics of vision. • Describe the tissues and cell types of the field of vision.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
AQUEOUS HUMOR (LEC-12)			
• Describe the physiological anatomy of aqueous humor. • Discuss the main functions of aqueous humor.	LGIS	45 minutes	Lecture hall 2, ground floor, Block-A
FIELD OF VISION (PW-2)			
• Define and explain the optics of vision. • Describe the tissues and cell types of the eye.	SGIS	2 hours	Physiology lab, 1st floor, Block-A.
SENSE OF TASTE (PW-3)			
• Summarize how the senses of taste and olfaction transduce stimuli into perceptions. • Describe the process of transduction in the senses	SGIS	2 hours	Physiology lab, 1st floor, Block-A

of touch and proprioception. • Outline the gate control theory of pain. Explain why pain matters and how it may be controlled.			
TASTE PATHWAY-II (LEC-13)			
• Name the major taste receptors and signal transduction mechanisms in these receptors. • Outline the pathways by which impulses generated are transmitted to the brain. • Identify the cortical areas involved in gustation. • Name the abnormalities of taste sensation.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
OLFACTION (LEC-14)			
• Describe the anatomical and physiological bases for olfaction. • Examine the role of the olfactory system in detecting harmful and helpful substances.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
OLFACTORY RECEPTORS (LEC-15)			

• Discuss the location of olfactory epithelium, the olfactory bulb, and the olfactory cortex**.** • Describe an olfactory receptor and explain the pathway.	LGIS	45 minutes	Lecture hall 2, ground floor, Block-A
OLFACTORY PATHWAY (LEC-16)			
• Identify the olfactory anatomical structures and pathway. • Recognize the relevant anatomical structures of the limbic system. • Describe the physiology of the amygdala and its function in emotional learning. • Describe the function of hippocampus and Papez circuit.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
SENSE OF SMELL (PW-4)			
• Discuss the olfactory pathway. • Describe how we breathe in odors in the air and our brain makes sense of what we smell.	SGIS	2 hours	Physiology lab, 1st floor, Block-A

• Describe from which type of odorants we should protect our noses.			
PHYSIOLOGIC ANATOMY OF EAR (LEC-17)			
• Understand the physiologic anatomy of the outer, middle, and inner ear, including the cochlear and vestibular nerves.	LGIS	45 minutes	Lecture hall 2, ground floor, Block-A
COCHLEA (LEC-18)			
• Discuss the physiological anatomy of the cochlea specifically, Inner and outer hair cells. • Discuss the mechanoelectrical transduction of the sound waves.	LGIS	45 minutes	Lecture hall 2, ground floor, Block-A
MECHANISM OF HEARING (LEC-19)			
• Discuss the auditory physiologic anatomy. • Describe the phenomenon of sound processing from pure tones to speech. • Discuss the causes of some of the major language disorders.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
AUDITORY PATHWAY (LEC-20)			

• Describe the organization of the auditory system. In particular, be able to describe the ear, auditory receptors. • Explain the connection of Spiral ganglion and cochlear nerve with Central auditory pathway and Wernicke's area • Discuss the categorization of hearing loss as conductive, sensor neural, or central according to the location of the causative lesion.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
REVIEW & QUIZ, FORMATIVE (SGT-1)			
• Discuss where in the auditory system a unilateral lesion may cause ipsilateral hearing loss. • Discuss the hemisphere dominance and why inability to understand speech is only one type of aphasia.	SGIS	2 hours	Lecture hall 2, ground floor, Block-A
SEMICIRCULAR CANALS (LEC-21)			

• Discuss the physiological anatomy of semicircular canals. • Describe the function and purpose of the semicircular canals.	LGIS	1 hour	Lecture hall 2, ground floor, Block-A
ROLE OF VESTIBULAR APPARATUS IN BALANCE (LEC-22)			
• Learn about the vestibular system, including, the vestibular organs, the system's location, and the vestibulocochlear nerve functions.	LGIS	2 hours	Lecture hall 2, ground floor, Block-A
REVIEW & QUIZ, FORMATIVE (SGT-2)			
• Discuss the physiological anatomy of semicircular canals and of vestibulocochlear nerve functions.	SGIS	2 hours	Lecture hall 2, ground floor, Block-A
HEARING TEST (PW-5)			
• Discuss the auditory pathway. • Describe the vestibulocochlear nerve functions. • Describe and perform Rinne's and Weber's tests and review.	SGIS	2 hours	Physiology lab, 2, ground floor, Block-A
FUNDOSCOPY (PW-6)			

• Describe and discuss the fundus of an eye. • Explain the parts of fundoscope. • Discuss in detail the method of observing fundus of an eye with fundoscope (ophthalmoscope).	SGIS	2 hours	Physiology lab, 1st floor, Block-A
AMBLYOSCOPY (PW-7)			
• Define amblyopia and discuss its causes • Discuss the handling of amblyoscope. • Explain the clinical assessment of amblyopia and the treatment plans with the help of an amblyoscope.	SGIS	2 hours	Physiology lab, 1st floor, Block-A

BIOCHEMISTRY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
DNA STRUCTURE (LEC-1)			
• Recall what are the nucleotides. • Describe in detail the structural characteristics of DNA- "Watson and Crick Model of Double Helix".	LGIS	45 minutes	Lecture Hall-2 Block-A

• Recognize that DNA is a genetic material. Genes of eukaryotes are present in 'chromatin' which is made up of protein and DNA.			
DNA REPLICATION-I (LEC-2)			
• Define central dogma of life and DNA replication. • Recall cell cycle and indicate the phase in which DNA replication takes place. • Enlist the requirements of DNA replication. • Identify that DNA replication takes place in 3 phases.	LGIS	1 hour	Lecture Hall-2 Block-A
DNA REPLICATION-II (LEC-3)			
• Describe the process of DNA replication. • Differentiate briefly between prokaryotic and eukaryotic DNA replication.	LGIS	45 minutes	Lecture Hall-2 Block-A
DNA REPAIR-I (SGT-1)			
• Enlist the environmental factors involved in DNA damage.	SGIS	2 hours	Lecture Hall-2 Block-A & Dissection Hall

• Identify the various types of DNA damage that occur during replication along with the types of DNA repair systems required to correct them. • Describe the mechanism of DNA repair systems.			
ESTIMATION OF SERUM URIC ACID (PW-1)			
• Name the reagents to be used in the experiment. • Follow the instructions to prepare the stock standard solutions and the sample. • Describe the principle of the reaction taking place in the experiment. • Note the readings of transmittance and optical density of stock standard solutions and sample by using spectrophotometry. • Calculate the concentration of stock standard solutions of 'S' test tubes.	SGIS	2 hours	Biochemistry lab, 1st floor, A-block
DNA REPAIR-II (LEC-4)			
• Discuss briefly about xeroderma pigmentosa.	LGIS	45 minutes	Biochemistry lab, 1st floor, A-block

• Explain the role of telomeres in aging of a cell.			
RNA STRUCTURE (LEC-5)			
• Define RNA and enlist the types of RNA which exists in organisms. • Differentiate between RNA and DNA. • Describe the structure and functions of mRNA and tRNA. • Describe the structure of prokaryotic and eukaryotic ribosomes in relation with rRNA.	LGIS	1 hour	Lecture Hall-2 Block-A
TRANSCRIPTION-I (LEC-6)			
• Define transcription. • Explain briefly about RNA polymerase and its role in the process of transcription in prokaryotes. • Describe the stages of transcription.	LGIS	2 hours	Lecture Hall-2 Block-A
INTERPRETATION OF SERUM URIC ACID VALUES (PW-2)			
• Construct the graph to obtain the concentration of uric acid for the sample.	SGIS	2 hours	Lecture Hall-2 Block-A

• State the normal range of serum uric acid. • Interpret the result of whether the sample is hypouricemic/hyperuricemic or within the normal range. • Discuss a few clinical causes of hypouricemia and hyperuricemia.			
TRANSCRIPTION-II & POST-TRANSCRIPTIONAL MODIFICATIONS (LEC-7)			
• Outline the methods employed by prokaryotes to terminate transcription. • Discuss post transcriptional modifications of m-RNA, t-RNA and r-RNA.	LGIS	45 minutes	Lecture Hall-2 Block-A
GENETIC CODE & MUTATION (LEC-8)			
• Describe the characteristics of genetic code. • Discuss about point mutation, frame shift mutations and deletion mutations. and its effects with examples.	LGIS	45 minutes	Lecture Hall-2 Block-A
TRANSLATION-I (LEC-9)			

• List the materials required for protein synthesis in eukaryotes. • Explain the formation of amino acyl tRNA.	LGIS	1 hour	Lecture Hall-2 Block-A
TRANSLATION-II (LEC-10)			
• Describe the process of initiation, elongation and termination phases of translation.	LGIS	2 hours	Lecture Hall-2 Block-A
ESTIMATION OF SERUM TOTAL PROTEINS (PW-3)			
• Name the reagents to be used in the experiment. • Read the instructions to prepare the stock standard solutions and the sample. • Describe the principle of the reaction taking place in the experiment. • Record the readings of transmittance and optical density of stock standard solutions and sample with the use of spectrophotometer. • Calculate the concentration of stock standard solutions of 'S' test tubes.	SGIS	2 hours	Lecture Hall-2 Block-A
POST-TRANSLATIONAL MODIFICATIONS (LEC-11)			

• Discuss post-translational modifications of proteins.	LGIS	1 hour	Lecture Hall-2 Block-A
RECOMBINANT DNA TECHNOLOGY-I (LEC-12)			
• Define the terms biotechnology, recombinant DNA and recombinant DNA technology. • List the tools used in recombinant DNA technology. • Describe the role of every tool in recombinant DNA technology.	LGIS	45 minutes	Lecture Hall-2 Block-A
RECOMBINANT DNA TECHNOLOGY-II (LEC-13)			
• Describe the process of DNA cloning. • Recognize the importance of Human genome project in creating DNA libraries.	LGIS	45 minutes	Lecture Hall-2 Block-A
RECOMBINANT DNA TECHNOLOGY-III (LEC-14)			
• Describe the process of polymerase chain reaction (PCR). • Identify the advantages of PCR. • List the applications of PCR.	LGIS	2 hours	Lecture Hall-2 Block-A
RECOMBINANT DNA TECHNOLOGY-IV (LEC-15)			

• Define blotting. • Identify that DNA, RNA and proteins are analyzed by Southern Blot, Northern Blot and Western Blot tests respectively. • Describe the technique of southern blotting.	LGIS	45 minutes	Lecture Hall-2 Block-A
INTERPRETATION OF SERUM TOTAL PROTEIN VALUES (PW-4)			
• Draw the graph to obtain the concentration of total proteins for the sample. • State the normal range of Total plasma proteins. • Identify that Serum Total Proteins is made up of Serum Albumin and Serum Globulin. • Interpret the result of whether the working sample is hypoproteinemia /hyperproteinemia or within the normal range. • Discuss a few clinical causes of hypoproteinemia and hyperproteinemia.	SGIS	2 hours	Lecture Hall-2 Block-A
ESTIMATION OF A:G RATIO (PW-5)			

• Name the reagents to be used in the experiment. • Read the instructions to prepare the stock standard solutions of Albumin and the sample. • Describe the principle of the reaction taking place in the experiment. • Record the readings of transmittance and optical density of stock standard solutions and sample with the use of spectrophotometer. • Calculate the concentration of stock standard solutions of 'S' test tubes.	SGIS	2 hours	Lecture Hall-2 Block-A
RECOMBINANT DNA TECHNOLOGY-V (LEC-16)			
• Define ELISA. • Describe the principle of ELISA. • Classify the types of ELISA tests. • Enlist the applications of ELISA tests in medicine.	LGIS	45 minutes	Lecture Hall-2 Block-A
INTERPRETATION OF A:G RATIO VALUES (PW-6)			
• Draw the graph to obtain the concentration of Serum	SGIS	2 hours	Lecture Hall-2 Block-A

Albumin for the sample. • Calculate the Albumin: Globulin. • Interpret the result of whether the ratio of the working sample is above the range, below the range or within the normal range. • Discuss a few clinical causes of increased and decreased Albumin: Globulin ratio.			
REVISION OF PREVIOUS PRACTICALS (PW-7)			
Journal checking	SGIS	2 hours	Lecture Hall-2 Block-A

PATHOLOGY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
DISORDERS OF ORAL CAVITY (LEC-1)			
• Define Ulcer in Oral Cavity. • Enlist inflammatory diseases of oral cavity. • List the premalignant conditions of oral cavity (Leukoplakia & Erythroplakia).	LGIS	1 hour	Lecture Hall-2 Block-A

• Describe the morphology of leukoplakia & erythroplakia. • Explain Squamous & Basal Cell Carcinoma including their etiology & morphology.			

COMMUNITY MEDICINE			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
INTRODUCTION TO IODINE DEFICIENCY DISORDERS (LEC-1)			
• Enlist the Causes of Iodine deficiency disorders. • Describe Approaches to reduce iodine deficiency.	LGIS	1 hour	Lecture Hall-2 Block-A
PREVENTION OF HEAD & NECK INJURIES IN COMMUNITY (LEC-2)			
• Enlist Types of Accidents and its risk factors. • Describe Preventive Measures regarding accidents and Injuries.	LGIS	45 minutes	Lecture Hall-2 Block-A
RESEARCH			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
RESEARCH TOPIC SELECTION (LEC-1)			
• Define the criteria for topic selection.	LGIS	45 minutes	Lecture Hall-2 Block-A

• Explain the rationale of selecting a new topic.			
RESEARCH PROJECT AND ITS COMPONENTS-1 (LEC-2)			
• Define research synopsis. • List the components of a research project.	LGIS	45 minutes	Lecture Hall-2 Block-A
RESEARCH PROJECT AND ITS COMPONENTS-2 (LEC-3)			
• Describe the sections of a research project.	LGIS	1 hour	Lecture Hall-2 Block-A
REINFORCEMENT OF THE PREVIOUS LECTURE (LEC-4)			
• Define research synopsis. • List the components of a research project. • Describe the sections of a research project.	LGIS	1 hour	Lecture Hall-2 Block-A
RESEARCH QUESTIONNAIRE DEVELOPMENT (LEC-5)			
• Define a research questionnaire. • Explain the development of a research questionnaire.	LGIS	1 hour	Lecture Hall-2 Block-A

PEARLS			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
STUDY SKILLS (LEC-1)			
	LGIS	45 minutes	Lecture Hall-2 Block-A
(LEC-2)			
•	LGIS	1 hour	Lecture

			Hall-2 Block-A
(LEC-3)			
	LGIS	1 hour	Lecture Hall-2 Block-A

BIOETHICS			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
INFORMED CONSENT AND REFUSAL OF TREATMENT(LEC-1)			
• Define concept of informed consent. • Discuss when informed consent needed and not needed. • Describe the conditions needed for consent to be valid.	LGIS	45 minutes	Lecture Hall-2 Block-A
NEGATIVE THOUGHTS/ANGER AND ETHICAL ISSUE-I (LEC-2)			
• Recognize the types of negative thinking. • Define anger. • Discuss the management of anger. • Explain ethical issue related to researcher and research participants.	LGIS	1 hour	Lecture Hall-2 Block-A

NEGATIVE THOUGHTS/ANGER AND ETHICAL ISSUE-II (LEC-3)			
• Examplify the ethical issues in health care. • Manage the patient with anger.	LGIS	45 minutes	Lecture Hall-2 Block-A
EQUALITY,JUSTICE AND EQUITY (LEC-4)			
• Define the principle of justice in bioethics. • Discuss importance of justice in health care profession. • Discuss difference between equality and equity.	LGIS	45 minutes	Lecture Hall-2 Block-A

BEHAVIOURAL SCIENCES			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
DOCTOR-PATIENT RELATIONSHIP (LEC-1)			
• Describe the concept of doctor-patient relationship • Identify factors which affect rapport building with the patient. • Identify the psychological skills needed to minimize reactions in doctor-patient relationship.	LGIS	45 minutes	Lecture Hall-2 Block-A

• Identify the factors which create a desirable attitude in health professionals.			
COMMUNICATION SKILLS (LEC-2)			
• Describe the process of communication. • Categorize the various types of modalities communication adopted in the contemporary world. • Define the principles of effective communication. • Identify the skills to enhance the characteristics if a good communicator.	LGIS	1 hour	Lecture Hall-2 Block-A

FORENSIC MEDICINE			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
FRACTURES OF THE SKULL (LEC-1)			
	LGIS	45 minutes	Lecture Hall-2 Block-A
INJURIES TO SCALP (LEC-2)			
	LGIS	45 minutes	Lecture Hall-2 Block-A
SUICIDAL & HEMISUICIDAL CUT THROAT WOUND (LEC-3)			
	LGIS	45 minutes	Lecture Hall-2 Block-A

SURGERY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
HEAD INJURIES (LEC-1)			
• Describe the anatomy of skull and meninges. • Describe how to take history in head injury patient. • Discuss the ATLS protocols and its application in primary and secondary survey. • Describe Glasgow Coma Scale. • Enlist different types of head injury. • Describe the signs and symptoms of head injury.	LGIS	1 hour	Lecture Hall-2 Block-A
FACIAL TRAUMA (LEC-2)			
• Describe the ATLS protocol for trauma. • Describe various types of facial trauma. • Enlist signs and symptoms of various types of facial trauma.	LGIS	45 minutes	Lecture Hall-2 Block-A
CLEFT LIP & PALATE (LEC-3)			

• Describe the developmental anatomy of lip and palate. • Discuss the causes of cleft lip and palate. • Enlist the signs and symptoms of cleft lip and palate.	LGIS	45 minutes	Lecture Hall-2 Block-A
SALIVARY GLAND TUMOURS (LEC-4)			
• Describe the basic anatomy and physiology of the salivary glands. • Enlist the causes of salivary gland tumors. • Classify salivary gland tumors.	LGIS	45 minutes	Lecture Hall-2 Block-A
NECK SWELLINGS (LEC-5)			
• Enlist the causes of neck swelling from the commonest to rarest. • Classify various types of neck swellings. • Describe signs and symptoms of different types of neck swellings.	LGIS	1 hour	Lecture Hall-2 Block-A

MEDICINE			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
LESIONS OF CRANIAL NERVE (LEC-1)			

• Discuss the common cranial nerve lesions with their clinical presentation.	LGIS	45 minutes	Lecture Hall-2 Block-A

ENT			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
(LEC-1)			
•	LGIS	1 hour	Lecture Hall-2 Block-A
LESIONS OF OLFACTION (LEC-2)			
	LGIS	1 hour	Lecture Hall-2 Block-A
LESIONS OF AUDITORY PATHWAY (LEC-3)			
	LGIS	1 hour	Lecture Hall-2 Block-A
DEAFNESS (LEC-4)			
	LGIS	1 hour	Lecture Hall-2 Block-A

OPHTHALMOLOGY			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
ERRORS OF REFRACTION (LEC-1)			
•	LGIS	45 minutes	Lecture Hall-2 Block-A
LESIONS OF VISUAL PATHWAY (LEC-2)			
	LGIS	1 hour	Lecture

			Hall-2 Block-A
GLAUCOMA (LEC-3)			
	LGIS	1 hour	Lecture Hall-2 Block-A

PAKISTAN STUDIES			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
PARTITION OF BENGAL (LEC-1)			
• Describe the partition of Bengal.	LGIS	45 minutes	Lecture Hall-2 Block-A
SIMLA DELEGATION (LEC-2)			
• Describe the Simla delegation.	LGIS	45 minutes	Lecture Hall-2 Block-A
ALL INDIA MUSLIM LEAGUE (LEC-3)			
• Write an essay on the establishment of Muslim League.	LGIS	45 minutes	Lecture Hall-2 Block-A
KHILAFAT MOVEMENT (LEC-4)			
• Write a comprehensive note on Khilafat Movement.	LGIS	45 minutes	Lecture Hall-2 Block-A
SIMLA CONFERENCE (LEC-5)			
• Describe the Simla Conference.	LGIS	45 minutes	Lecture Hall-2 Block-A
LUCKNOW PACT (LEC-6)			

• Write a short note on the Lucknow Pact.	LGIS	45 minutes	Lecture Hall-2 Block-A
NEHRU REPORT (LEC-7)			
• Describe the Nehru report.	LGIS	45 minutes	Lecture Hall-2 Block-A
FOURTEEN POINTS OF QUAID-E-AZAM (LEC-8)			
Write a brief note on fourteen points of the great Quaid.	LGIS	45 minutes	Lecture Hall-2 Block-A

CBL			
LEARNING OBJECTIVES	TEACHING STRATEGY	DURATION	VENUE
OPTIC NEURITIS –I (CBL-1)			
• Describe the course of optic nerve with reference to optic chiasma and optic tract. • What is the location of primary and secondary visual areas in cerebral cortex? • Describe connections of visual areas to different parts of CNS. • What is myelin sheath and what function does it perform?	SGIS	2 hours	Lecture Hall-2, Dissection Hall and Anatomy LRC; Block-A
OPTIC NEURITIS –II (CBL-2)			

• What are the different forms of Vitamin A? • Describe the visual cycle. • What is the function of vitamin A? • What are the disorders caused by vitamin A deficiency? • Describe the formation of optic nerve fibers. • Learn visual pathway and its related lesions resulting the various types of blindness.	SGIS	2 hours	Lecture Hall-2, Dissection Hall and Anatomy LRC; Block-A
STRABISMUS (CBL-3)			
• Identify the Anatomy of muscles involved in eye movement. • Explain the nerve supply of muscles involved in vision & eye movement? • What is the normal physiology of vision and visual pathways? • Demonstrate the physiological basis of image formation on retina. • To learn the basis of ocular reflexes.	SGIS	2 hours	Lecture Hall-2, Dissection Hall and Anatomy LRC; Block-A

• Differentiate between normal & abnormal eye movements. • Identify Squint/Abnormal ocular movement. • Discuss Visual Cycle.			

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
HEAD & NECK MODULE
Week 1

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
	ENDOCRINE MODULE EXAM							
DAY-1	**ANATOMY** Bones and joints of skull	**ANATOMY** **Norma verticalis and occipitalis -**	**Tea break**	**ANATOMY** Skull Osteo (Norma Frontalis)		**Pakistan Studies**	**Lunch & Prayer**	**SGT** **Anatomy** Skull Osteology Norma lateralis
DAY-2	**ANATOMY** Skull Osteo (Norma Basalis-I			**SDL** **ANATOMY** Skull Osteo (Norma Basalis II		**PEARLS (Study Skills)**		**ANATOMY** MANDIBLE AND TMJ
DAY-3	**ANATOMY** **EMBRYO** Development of Skull	**FORENSIC MEDICINE** Fractures of the Skull		**ANATOMY** **SCALP**	**SURGERY** Physiologic Changes after Head injuries	**SDL**		**SGT** **(Anatomy)** Skull Osteology
DAY-4	**ANATOMY** **HISTOLOGY** **SCALP**	**FORENSIC MEDICINE** Injuries to Scalp		**ANATOMY** **CERVICAL VERTEBRAE**		**12:30-1:00** **SDL**		**ANATOMY** **infra temporal fossa**

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
HEAD & NECK MODULE
Week 2

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
DAY-5	**ANATOMY** **Development of phyrangeal apparatus**	**BIOCHEMISTRY** Molecular biochem (Replication)-I		**ANATOMY** Orbital cavities, Boundaries & Ocular muscles	**BIOCHEMISTRY** Molecular biochem (Replication)-II	**ANATOMY** content of orbit		**Anatomy** **EYE BALL**
DAY-6	**ANATOMY EMBRYO** Development of Eye	**PHYSIOLOGY** Physiologic anatomy of Eye	**Tea break**	**SDL**	**PHYSIOLOGY** Eye m Eye Ball & Extraocular muscle ovement	**Pakistan Studies**	**Lunch & Prayer**	**SGT** **Physiology** **Formative Assessment** **QUIZ**
DAY-7	**PHYSIOLOGY** Accommodation-I	**PHYSIOLOGY** Accommodation-II		**PHYSIOLOGY** Mechanism of refraction-I	**Anatomy** Eye lid & lacrimal gland	**SDL**		**FORMATIVE ASSESSMENT**
DAY-8	**PHYSIOLOGY** Mechanism of refraction-II	**OPHTHALMOLOGY** Errors of refractions		**SDL**	**PRACTICAL A,B & C** **(Anatomy)** SLIDE OF SCALP **Biochem)**Estimation of Serum Uric acid (**(Physiology)** Visual Acuity & Color vision			**SGT** **biochemistry** **Formative Assessment** **QUIZ**

DAY-9	**ANATOMY HISTOLOGY** of Eye	**BIOCHEMISTRY** Molecular biochem (Replication)-III		**PRACTICAL A,B & C** **(Anatomy)** SLIDE OF SCALP **(Biochem)**Estimation of Serum Uric acid **(Physiology)** Visual Acuity & Color vision	**12:30-1:00** **SDL**	**1:00-1:30** Lunch & Prayer	**PRACTICAL A,B & C** **(Anatomy)** SLIDE OF SCALP **Biochem)** Estimation of Serum Uric acid (**(Physiology)** Visual Acuity & Color vision

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
HEAD & NECK MODULE
Week 3

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
DAY-10	**PHYSIOLOGY** Photochemistry of vision	**PHYSIOLOGY** Visual Pathway-I	**Tea break**	**PHYSIOLOGY** Visual Pathway-II	**OPHTHALMOLOGY** Lesion Visual pathway	**SDL**	**Lunch & Prayer**	**SGT** **Anatomy** **Model of EYE**
DAY-11	**PHYSIOLOGY** Field of vision	**BIOCHEMISTRY** Molecular biochem (DNA repair)		**ANATOMY** **MUSCLES OF FACE**		**Pakistan Studies**		**FORMATIVE ASSESSMENT** **Biochem**
DAY-12	**ANATOMY EMBRYO** Development of Face-I	**RESEARCH**		**BEHAVORIAL SCIENCES**	**BIOCHEMISTRY** Transcription-I	**SDL**		**CBL**

DAY-13	**ANATOMY EMBRYO** Development of Face-II	**SURGERY** Facial Trauma		**RESEARCH**	**PRACTICAL A,B & C** Model of face **(Anatomy)** Creatinine clearance **(Biochem)** Field of vision Fundoscopy, **(Physiology)**			**BIOCHEMISTRY** Transcription-II
DAY-14	**ANATOMY** **ORAL CAVITY AND TONGUE**			**PRACTICAL A,B & C** Model of face **(Anatomy)** Creatinine clearance **(Biochem)** Field of vision Fundoscopy, **(Physiology)**	**12:30-1:00** **SDL**			**PRACTICAL A, B & C** Model of face **(Anatomy)** Creatinine clearance **(Biochem)** Field of vision Fundoscopy, **(Physiology)**

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
HEAD & NECK MODULE
Week 4

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
DAY-15	**ANATOMY** EMBRYO DEVELOPMENT OF TONGUE	**BIOCHEMISTRY** Transcription-III	**Tea break**	**ANATOMY** Muscle of mastication	**SGT Biochem Review & Quiz (Formative)**	**SDL**	**Lunch & Para**	**FORMATIVE ASSESSMENT Biochem**

DAY-16	**ANATOMY** HISTO TONGUE	**BIOCHEM** Transcription-IV		**PATHOLOGY** Disorders of oral cavity	**SDL**	**Pakistan Studies**	**year**	**SGT** Anatomy TONGUE AND ORAL CAVITY MODELS
DAY-17	**BIOCHEM** Translation-I	**SURGERY** Cleft lip & palate		**PEARL**	**PHYSIOLOGY** Taste papillae	**SDL**		ANATOMY PAROTID AND SUBMANDIBULAR REGIONS
DAY-18	**PHYSIOLOGY** Taste buds	**Behavioral Sciences**		**PHYSIOLOGY** Taste pathway-I	**PRACTICAL A,B & C** Identification of slide Of tongue SALIVARY GLANDS, (Histology) Estimation of Serum Urea **(Biochem)** **(Physiology)** Sense of taste			**BIOCHEMISTRY Translation-II AND III**
DAY-19	**PHYSIOLOGY** Taste pathway-II	**MEDICINE**		**PRACTICAL A,B & C** Identification of slide of tongue, SALIVARY GLANDS(Histology) Estimation of Serum Urea **(Biochem)** **(Physiology)** Sense of taste		**12:30-1:00** **SDL**		**PRACTICAL A, B & C** Identification of slide of tongue SALIVARY GLANDS, (Histology) Estimation of Serum Urea **(Biochem)** **(Physiology** Sense of taste**)**

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
HEAD & NECK MODULE
Week 5

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15 - 1:30	1:30-3:30

DAY-20	**BIOCHEMISTRY** Translation-IV	**ANATOMY** NOSE		**PHYSIOLOGY** Olfaction	**ANATOMY** PARANASAL SINUSES	**PHYSIOLOGY** Olfactory receptors		**ANATOMY** SGT
DAY-21	**PHYSIOLOGY** Olfactory pathway	**BIOCHEMISTRY** Recombinant DNA Technology-I		**ENT** Lesions of Olfaction	**SDL**	**Pakistan Studies**		**FORMATIVE ASSESSMENT** Will need to include Feedback
DAY-22	**BIOCHEMISTRY** Recombinant DNA Technology-II	**ENT**	**Tea break**	**COMMUNITY MEDICINE**	**RESEARCH**	**SDL**	**Lunch & Prayer**	**CBL**
DAY-23		**BIOCHEMISTRY** Recombinant DNA Technology-III		**SDL**	**PRACTICAL A,B & C** MODEL OF NOSE Estimation of Serum Urea **(Biochem)** Sense of SMELL **(Physiology)**			**PHYSIOLOGY** SGT
DAY-24	**BIOCHEMISTRY** Recombinant DNA Technology-IV	**BEHAVIORAL SCIENCES**		**PRACTICAL A,B & C** MODEL OF NOSE Estimation of Serum Urea **(Biochem)** Sense of SMELL **(Physiology)**		**12:30-1:00** SDL		**PRACTICAL A, B & C** MODEL OF NOSE Estimation of Serum Urea **(Biochem)** Sense of smell **(Physiology)**

TIME TABLE FOR 2nd YEAR MBBS
HEAD & NECK MODULE
Week 6

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
DAY-25	**ANATOMY** external ear	**PHYSIOLOGY** Physiologic anatomy of Ear		**ANATOMY** Middle Ear	**ANATOMY** Inner ear	SDL		**SGT Anatomy Model of Ear**
DAY-26	**ANATOMY** Vestibulocochlear Nerves	**PHYSIOLOGY** Cochlea		**PHYSIOLOGY** Mechanism of Hearing	**PHYSIOLOGY** Auditory Pathway	**Pakistan Studies**		SGT Physio Review & Quiz Formative
DAY-27	**PHYSIOLOGY** Semicircular canal	**PHYSIOLOGY** Role of vestibular apparatus in Balance	**Tea break**	**ENT** Lesions of Auditory pathway	**ENT** Deafness	SDL	**Lunch & Prayer**	**SGT** Physio Review & Quiz Formative
DAY-28	**ANATOMY** Neck, deep cervical facia- platysma	**ANATOMY** Neck, prevertebral fascia-		**SDL**	**PRACTICAL A,B & C** Models of Neck **(Anatomy)** Estimation of Glucose **(Biochem)** Hearing tests **(Physiology)**			**FORMATIVE ASSESSMENT**
DAY-29	**ANATOMY** Pretracheal fascia Carotid sheath Tissue spaces of neck			**PRACTICAL A,B & C** Models of NECK **(Anatomy)** Estimation of Glucose **(Biochem)** Hearing tests **(Physiology)**		**12:30-1:00 SDL**		**PRACTICAL A, B & C** Models of Neck **(Anatomy)** Estimation of Glucose **(Biochem)** Hearing tests **(Physiology)**

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
HEAD & NECK MODULE
Week 7

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15 - 1:30	1:30-3:30
DAY-30	**ANATOMY** **Stenocleidomastoid and trapezius muscle**	Anterior Triangle of Neck		**RESEARCH**	**SDL**	**ANATOMY** **Suprahyoid and infrahyoid muscles**		**ANATOMY** Anterior Triangle of Neck Model
DAY-31	**ANATOMY** Posterior Triangle of Neck			**SURGERY** Neck swellings	**SDL**	**Pakistan Studies**		SGT Anatomy Review & Quiz Formative
DAY-32	**ANATOMY** cervical plexus		**Tea break**	**SDL**	**PEARL**	**Pakistan Studies**	**Lunch & Prayer**	**ANATOMY**
DAY-33	**ANATOMY** accessory nerve	**FORENSIC MEDICINE** Suicidal & hemisucidal cut throat wound		**SDL**	**PRACTICAL A,B & C** Models of Neck **(Anatomy)** **(Biochem)** **Physiology)**			**FORMATIVE ASSESSMENT** **Physiology**
DAY-34	**ANATOMY** **LYMPHATIC DRAINA**	**Community Medicine** Prevention of Head and Neck		**PRACTICAL A,B & C** Models of Neck **(Anatomy)** **(Biochem)**		**12:30-1:00** **DSL** **(Biochem)**		**PRACTICAL** **A, B & C** Models of Neck **(Anatomy)**

	GE OF NECK	Injuries in Community		**Physiology)**			**(Biochem)** **Physiology)**

BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
HEAD & NECK MODULE
Week 8

DAYS	8:30-9:30	9:30-10:15	10:15-10:30	10:30-11:30	11:30-12:30	12:30-1:15	1:15-1:30	1:30-3:30
DAY-35	**ANATOMY** ARTERIES OF NECK		**T e a b r e a k**	**ANATOMY** **VEINS OF NECK**		**SDL**	**L u n c h & P r a y e r**	**ANATOMY** **SGT** **THYROID MODEL**
DAY-36	**ANATOMY** **ROOT OF NECK**			**RESEARCH**	**SDL**	**Pakistan Studies**		**SGT** **Aantomy** **Review & Quiz (Formative)**
DAY-37	**ANATOMY** **CERVICAL SYMPATHETIC TRUNK**			**PEARLS**	**SDL**			**CBL**
DAY-38	**ANATOMY** CRANIAL NERVES OF HEAD AND NECK I			**MEDICINE**	**PRACTICAL A,B & C** **(Anatomy)** HEAD & NECK SPECIMEN **(Biochem)** **(Physiology)**			SGT Anatomy CBL is usually designed in a way it covers all aspects of the topic covered till now including all subjects

DAY-39	**ANATOMY** CRANIAL NERVES OF HEAD AND NECK II		**PRACTICAL A,B & C** **(Anatomy)** HEAD & NECK SPECIMEN **(Biochem)** **(Physiology)**	**12:30-1:00** **SDL**		**PRACTICAL A, B & C** **(Anatomy)** HEAD & NECK **(Biochem)** **(Physiology)**

Distribution and Duration* of Teaching Activities Amongst Different Disciplines

S. No.	Disciplines	Large Group Interactive Session	Small Group Interactive Session		Total hours
		Lectures	SGT	PW	
1.	Anatomy	65.15	12	14	91.15
2.	Physiology	21.5	4	14	39.5
3.	Biochemistry	16.75	2	14	32.75
4.	Pharmacology	0			0
5.	Pathology	1			1
6.	Com. Med	1.75			1.75
5.	Research	4.5			4.5
6.	Family Medicine	0			0

7.	Medicine	0.75		0.75
8.	Nephrology	0		0
9.	Emergency medicine	0		0
10.	Radiology	0		0
11.	Surgery	4.25		4.25
12.	Paediatric surgery	0		0
13.	Gynae & Obs	0		0
14.	ENT	4		4
15.	Ophthalmology	2.75		2.75
16.	Forensic Medicine	2.25		2.25
17.	Behavioral sciences	1.75		1.75
18.	Bioethics	3.25		3.25
19.	PEARLS	2.75		2.75
20.	Patient safety	0		0
21.	Infection control	0		0
22.	Skill Lab	0		0
23.	CBL		6	6
24.	SDL	27.5		27.5
25.	Pakistan studies	6		6
26.	Formative Assessment	18		18

* calculated in hours

Assessment Type:

Summative Assessment

- SEQs
- MCQs
- OSPE