



**BAQAI MEDICAL UNIVERSITY
BAQAI MEDICAL COLLEGE
SECOND YEAR M.B.B.S.
HEAD & NECK MODULAR STUDY GUIDE - 2024**



BAQAI MEDICAL COLLEGE

SECOND YEAR M.B.B.S.

STUDY GUIDE - 2024

HEAD & NECK MODULE

8 weeks



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SECOND YEAR M.B.B.S.**

HEAD & NECK MODULAR STUDY GUIDE - 2024

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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.





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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.

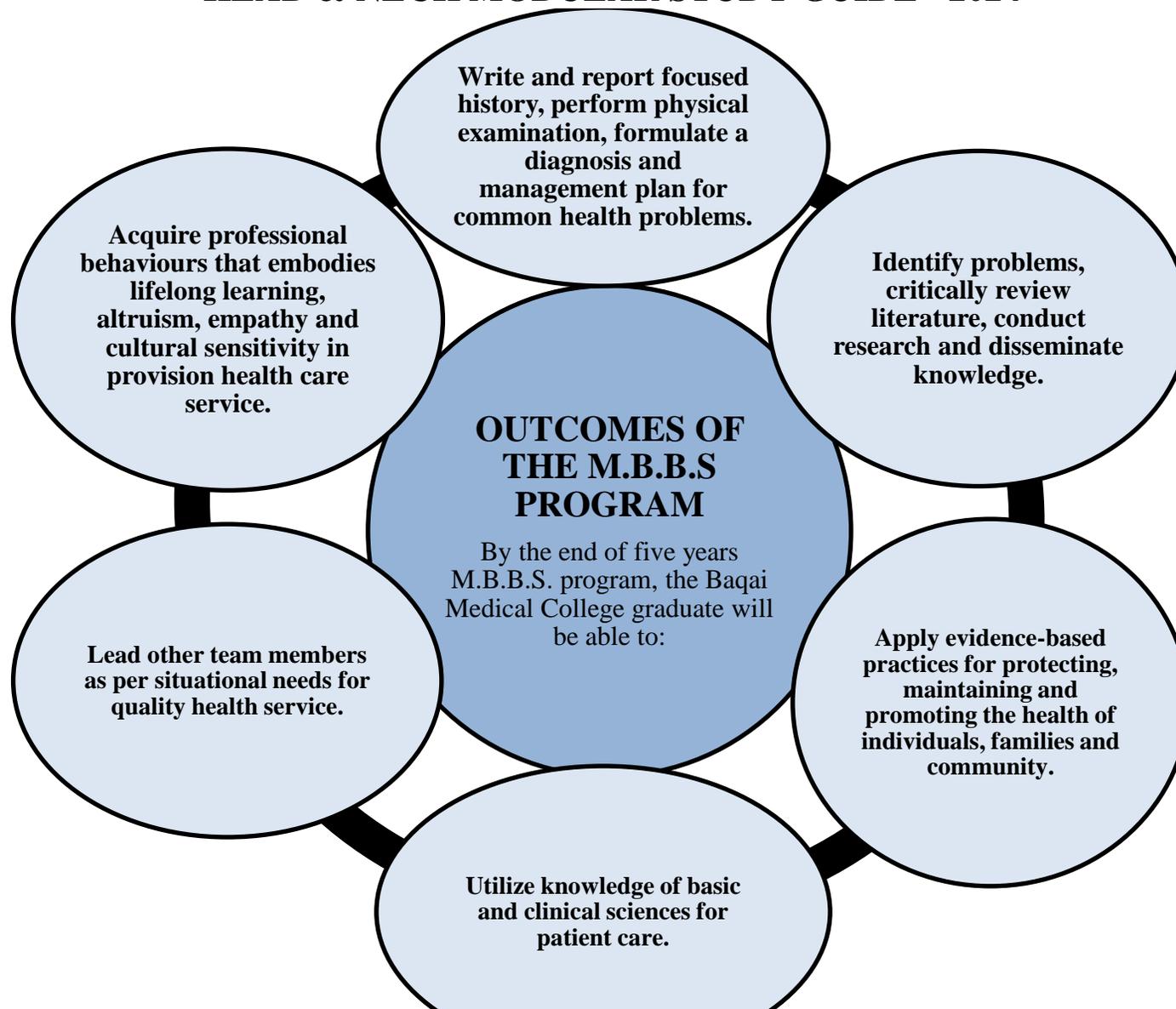


BAQAI MEDICAL COLLEGE MISSION STATEMENT

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.



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CIC SPIRAL-1 2nd Year MBBS MODULAR TIME TABLE, STUDY GUIDE and CBL TEAM

NAME OF FACULTY	DEPARTMENT	DESIGNATION IN TEAM	EMAIL ADDRESS
Prof. Dr. Syed Inayat Ali	Anatomy	Head of CIC Spiral-1	drinayatali@baqai.edu.pk
Prof. Dr. Uzma	Anatomy	Class In-charge 2 nd Year MBBS	
Dr. Benish Zafar	Biochemistry	Coordinator of 2 nd Year MBBS Study Guide & Time Table Team	benishzafar@baqai.edu.pk
Dr. Mubashara Tahseen	Anatomy	Member	mubasharatahseen@baqai.edu.pk
Dr. Sobia	Physiology	Member	sobianabeel@baqai.edu.pk
Dr. Hina Masood	Pharmacology	Member	hinamasood@baqai.edu.pk
Dr. Rozeena	Pathology	Member	
Dr. Rafey Siddiqui	Forensic Medicine	Member	rafaya@baqai.edu.pk
Dr. Ammara	Community Medicine	Member	ammarasaeed@baqai.edu.pk
Dr. Aneeta / Dr. Saima Askari	Medicine	Members	haroonharoon@baqai.edu.pk / saimaaskari@baqai.edu.pk
Dr. Danish / Dr. Abdullah	Surgery	Member	drdanishmuneeb@baqai.edu.pk / dr.abdullah@baqai.edu.pk
Dr. Nikhat Ashraf	Gynaecology & Obstetrics	Member	dr.nikhatahsan@baqai.edu
Dr. Maria Rahim	Research	Member	maria.rahim@baqai.edu.pk
Dr. Mariam Ibrahim	Department of Medical Education	Member	mariamibrahim@baqai.edu.pk
Dr. Azra Shaheen	Behavioural Sciences	Member	azra@baqai.edu.pk
Dr. Danish/ Dr. Abdullah	Orthopeadics	Members	drdanishmuneeb@baqai.edu.pk / drabdullah@baqai.edu.pk



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Dr. Mehwish	Radiology	Member	
Dr. Kahkashan Perveen	Biochemistry	Spiral-1 CBL Coordinator	dr.kahkashan@baqai.edu.pk
Dr. Shahid Pervez	Anatomy	CBL team member	sshaikh@baqai.edu.pk
Dr. Salimullah	Physiology	CBL team member	drsaleemullah@baqai.edu

INTRODUCTION TO HEAD & NECK MODULE GUIDE:

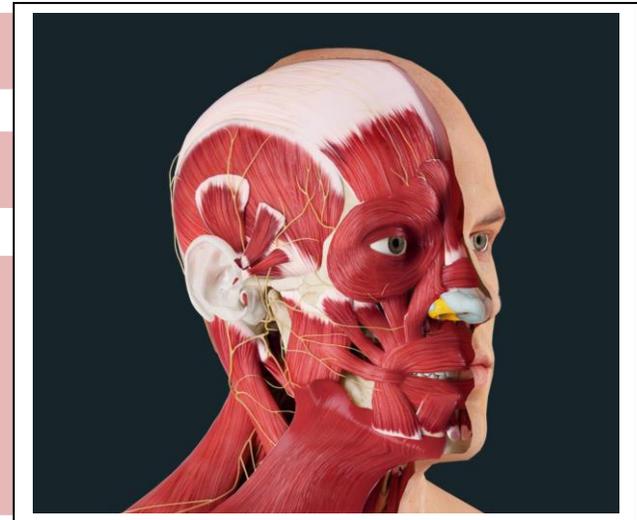
Year to be taught: Second Professional M.B.B.S. -2024

Placement of Head & Neck Module: FOURTH

Duration: 8 Weeks (8+1 day)

Tentative Date: 30-07-2024 to 23-09-2024

Module Assessment Date: End of Module





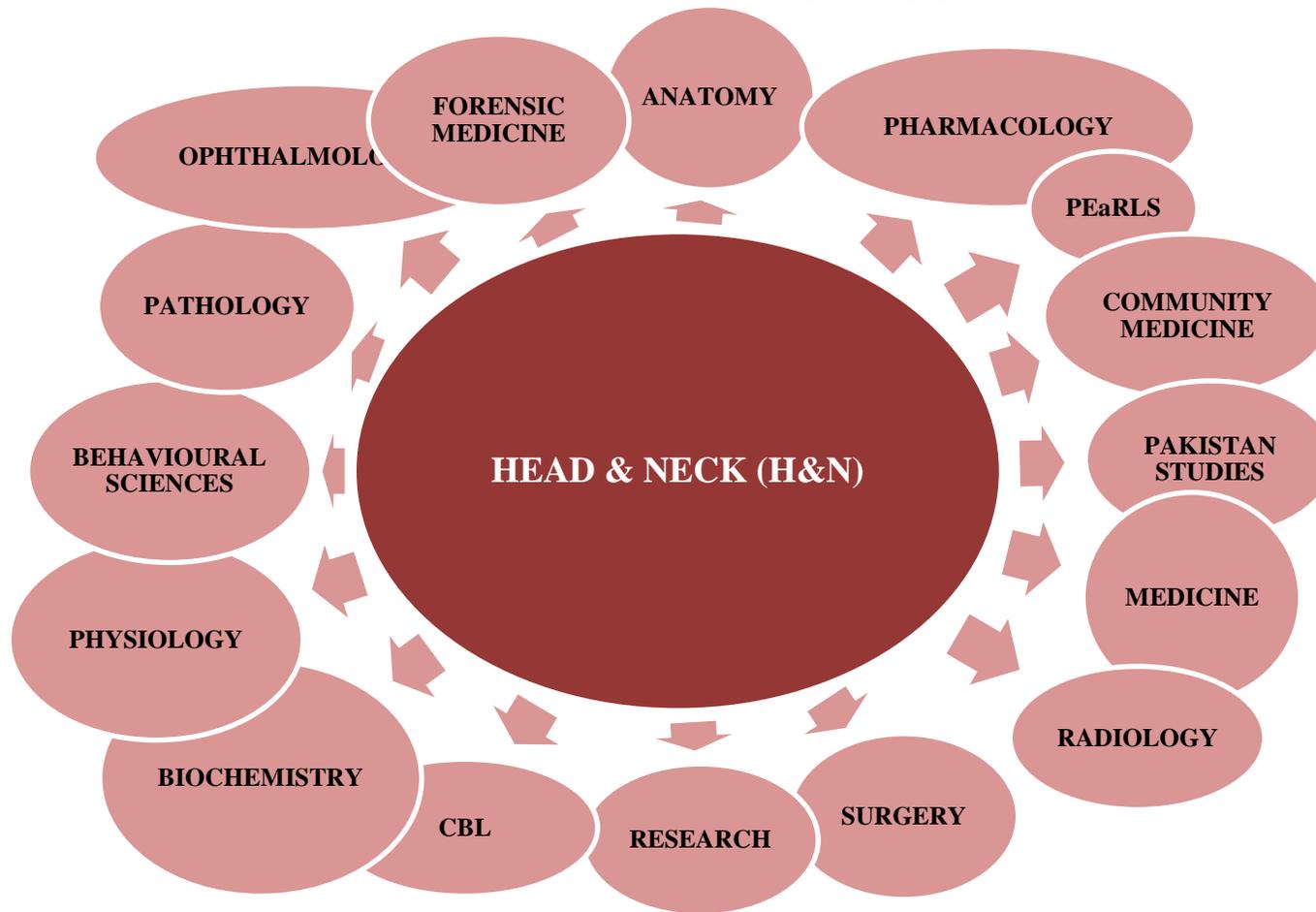
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The Head and Neck Module is the fourth module for 2nd Year MBBS Integrated Modular Curriculum for MBBS program. It will give an introduction and awareness about the curriculum of head and neck in general along with the teaching and learning environment. 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, practical, CBL and SDL.



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HEAD & NECK MODULE OUTCOME

At the completion of the head & neck module, 2nd year MBBS students will be able to:

1. Identify the skull bones, different views and features along their applied.
2. Describe the development of pharyngeal apparatus their derivatives and microscopic structure of head & neck and special sense organ with abnormalities.
3. Describe gross anatomy of structures and physiological mechanism of special sense organs present in head and neck with clinical significance.
4. Recall cranial nerves distribution, functions and clinical response to injury.



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INTEGRATED TEACHING

At the end of this module, Second Professional M.B.B.S. student will be able to;

TOPICS WITH OBJECTIVES	DEPARTMENT	DURATION	FACILITATOR	TEACHING STRATEGY	VENUE
BONES AND JOINTS OF SKULL <ul style="list-style-type: none">• Identify the bones of skull.• Name the different norma of skull.• Identify the important landmarks of each bone.• Describe the joints of skull and their attachments.• Describe the important clinical significance of specific landmarks.	ANATOMY	60 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.



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DEVELOPMENT OF SKULL <ul style="list-style-type: none">Describe the development of skull.Describe the various anomalies of skull development.	ANATOMY	60 minutes	Dr. Inayat	Lecture	Lecture hall – 2, Ground floor, Block-A.
STRUCTURE OF DNA <ul style="list-style-type: none">Recall what are nucleotides.Describe in detail the structural characteristics of DNA- “Watson and Crick Model of Double Helix”.Recognize that DNA is a genetic material. Genes of eukaryotes are present in ‘chromatin’ which is made up of protein and DNA.	BIOCHEMISTRY	60 minutes	Dr. Benish	Lecture	Lecture hall – 2, Ground floor, Block-A.
NORMA VERTICALIS <ul style="list-style-type: none">Identify the norma verticalis on the skull.Name the bones of each norma.Identify the important landmarks of each bone.Identify the foramina with their contents.Describe the muscle attachments of norma verticalis.	ANATOMY	60 minutes	Dr. Saba	Lecture	Lecture hall – 2, Ground floor, Block-A.
NORMA OCCIPITALIS <ul style="list-style-type: none">Identify the norma occipitalis on the skull.Identify the foramina with their contents.	ANATOMY	60 minutes	Dr. Sarosh	Lecture	Lecture hall – 2,



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<ul style="list-style-type: none"> Describe the muscle attachments of norma occipitalis. 					Ground floor, Block-A.
<p>DNA REPLICATION - 1</p> <ul style="list-style-type: none"> Define central dogma of life and DNA replication. Recall cell cycle and indicate the phase in which DNA replication takes place. List the requirements of DNA replication. Identify that DNA replication takes place in 3 phases. Describe the process of DNA replication in first phase. 	BIOCHEMISTRY	60 minutes	Dr. Kahkashan	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>NORMA FRONTALIS</p> <ul style="list-style-type: none"> Identify the norma frontalis. Name the bones of norma frontalis. Identify the important landmarks of norma frontalis. Identify their foramina with their contents. Describe the muscle attachments of norma frontalis. 	ANATOMY	60 minutes	Dr. Saba	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<p>NORMA LATERALIS</p> <ul style="list-style-type: none"> Identify the norma lateralis. Name the bones of norma lateralis. Identify the important landmarks of norma lateralis. Identify their foramina. . Describe the attachments of norma lateralis. 	ANATOMY	45 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>NORMA BASALIS-1</p> <ul style="list-style-type: none"> Identify the norma basalis. List the bones forming the norma. Basalis. Identify the important landmarks of norma basalis. Identify their foramina with their contents. 	ANATOMY	60 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>DNA REPLICATION - 2</p> <ul style="list-style-type: none"> Describe the process of elongation and termination in DNA replication Describe the differences between prokaryotic and eukaryotic DNA replication. 	BIOCHEMISTRY	60 minutes	Dr. Kahkashan	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>NORMA BASALIS-2</p> <ul style="list-style-type: none"> Describe the attachments of norma basalis. Describe the important clinical significance of specific landmarks. 	ANATOMY	45 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<p>DEVELOPMENT OF PHARYNGEAL APPARATUS</p> <ul style="list-style-type: none"> Describe the development of Pharyngeal apparatus. 	<p>ANATOMY</p>	<p>45 minutes</p>	<p>Dr. Inayat</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>SCALP</p> <ul style="list-style-type: none"> Describe the structure of the scalp. Describe the muscles innervation, vascular supply & lymphatic drainage of the scalp. Describe the applied anatomy of the scalp. 	<p>ANATOMY</p>	<p>60 minutes</p>	<p>Dr. Mubashara</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>HISTOLOGY OF SCALP</p> <ul style="list-style-type: none"> Describe the histological features of scalp. Describe the various cells of scalp. 	<p>ANATOMY</p>	<p>60 minutes</p>	<p>Dr. Inayat</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>SCALP</p> <ul style="list-style-type: none"> Describe the histological features of scalp. Detail of the microanatomy of cells of layers of scalp. Differentiate between scalp layers. 	<p>HISTOLOGY</p>	<p>120 minutes</p>	<p>Dr. Sarosh</p>	<p>Practical</p>	<p>Histology laboratory, First floor, Block-A</p>
<p>INJURIES AND THEIR CONTROL</p> <ul style="list-style-type: none"> Define injury. Explain types of injuries and their risk factors. 	<p>COMMUNITY MEDICINE</p>	<p>45 minutes</p>	<p>Dr. Ammarah</p>	<p>Lecture</p>	<p>Lecture hall – 2,</p>



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<ul style="list-style-type: none"> Discuss accident and injury prevention and control measures. 					Ground floor, Block-A.
<p>TRAUMA TO THE HEAD AND NECK</p> <ul style="list-style-type: none"> Define Head Injury as per National Advisory Neurological Diseases & Stroke Council. Classify Cranio-Cerebral Injury (Scalp , Skull & Brain). Classify Brain Injury with mention of Mechanism of its production. Explain Cerebral Concussion, Contusions & Lacerations. Describe Coup & Contre-Coup Injury. 	FORENSIC MEDICINE	60 minutes	Dr. Jan e Alam	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>MANDIBLE</p> <ul style="list-style-type: none"> Identify the parts of mandible. List the attachment on the various parts of mandible. Identify their foramina with their contents. Discuss the applied anatomy of mandible 	ANATOMY	60 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>DNA REPAIR-1</p> <ul style="list-style-type: none"> List the environmental factors involved in DNA damage. 	BIOCHEMISTRY	60 minutes	Dr. Benish	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<ul style="list-style-type: none"> 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. 					
TEMPORAL FOSSA <ul style="list-style-type: none"> Identify the temporal fossa. Describe the boundaries of temporal fossa. List the content of temporal fossa. Describe the Temporalis muscles its attachment, Innervation and action. 	ANATOMY	60 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
RADIOLOGICAL ANATOMY OF HEAD <ul style="list-style-type: none"> Identify the radiological anatomy of head. Know about view of head. Defend the need for next appropriate radiological investigation like other views of x-ray, ultrasound, CT and MRI. 	RADIOLOGY	60 minutes	Dr. Touqeer	Lecture	Lecture hall – 2, Ground floor, Block-A.
RESEARCH TOPIC SELECTION <ul style="list-style-type: none"> Define the criteria for topic selection. Explain the rationale of selecting a new topic. 	RESEARCH	45 minutes	Miss. Maria	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<p>EMBRYOLOGICAL PHARYNGEAL APPARATUS-2</p> <ul style="list-style-type: none"> Describe the various anomalies of Pharyngeal apparatus development. 	ANATOMY	45 minutes	Dr. Inayat	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>TEMPORO MANDIBULAR JOINT</p> <ul style="list-style-type: none"> Describe the temporo-mandibular joint its type and its articular surfaces. Describe the ligaments attached at and movements of it with the muscles involved. Describe the neuro vascular supply of it. 	ANATOMY	60 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>INFRATEMPORAL FOSSA</p> <ul style="list-style-type: none"> Describe the boundaries of infra temporal fossa. List the contents of infratemporal fossa Describe the boundaries of pterygopalatine fossa. Discuss the contents of pterygopalatine fossa. 	ANATOMY	60 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>DEVELOPMENT OF FACE</p> <ul style="list-style-type: none"> Describe the development of face. Describe the various stages of face development. Describe the various anomalies of face development. 	ANATOMY	60 minutes	Dr. Inayat	Lecture	Lecture hall – 2, Ground floor, Block-A.



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DNA REPAIR-II <ul style="list-style-type: none">• Describe the mechanism of different DNA repair systems.• Discuss briefly about xeroderma pigmentosa.• Explain the role of telomeres in aging of a cell.	BIOCHEMISTRY	60 minutes	Dr. Benish	Lecture	Lecture hall – 2, Ground floor, Block-A.
NERVES AND BLOOD VESSELS OF FACE <ul style="list-style-type: none">• Discuss the arterial supply, venous and lymphatic drainage of face.• Identify the cutaneous nerve supply of the face.	ANATOMY	45 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
MUSCLES OF FACE <ul style="list-style-type: none">• Identify the muscles of facial expression with attachments, nerve supply & actions.• Describe the applied anatomy of the face muscles.	ANATOMY	45 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.



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EYELID AND LACRIMAL GLAND <ul style="list-style-type: none">• Discuss the eye lid and their parts.• Describe lacrimal apparatus.• Define the diseases related to lacrimal apparatus.	ANATOMY	45 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
HEAD & NECK SURGERY-1 <ul style="list-style-type: none">• Discuss about the common developmental pathologies of head & neck.	SURGERY	60 minutes	Dr. Danish	Lecture	Lecture hall – 2, Ground floor, Block-A.
RESEARCH PROJECT AND ITS COMPONENTS-1 <ul style="list-style-type: none">• Define research synopsis.• List the components of a research project.	RESEARCH	45 minutes	Miss. Maria	Lecture	Lecture hall – 2, Ground floor, Block-A.
ORBIT AND ITS CONTENTS <ul style="list-style-type: none">• Describe the boundaries and contents of orbital cavity.• Describe the Ciliary ganglion and its location and connection.	ANATOMY	45 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
EYEBALL AND ITS CONTENT <ul style="list-style-type: none">• Describe the structures & contents of the eye ball.	ANATOMY	60 minutes	Dr. Shahid	Lecture	Lecture hall – 2,



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<ul style="list-style-type: none"> Enumerate the extrinsic & intrinsic muscles of the eye ball. Describe the neuro vascular supply of these muscles. 					Ground floor, Block-A.
EYEBALL <ul style="list-style-type: none"> Name the Layers / Coats of Eyeball. Explain the structure and importance of sclera. Describe the corneal layers. Summarize the choroid layer. Describe the uveal tract. Define Iris and Pupil. 	PHYSIOLOGY	60 minutes	Dr. Saba	Lecture	Lecture hall – 2, Ground floor, Block-A.
EMBRYOLOGY DEVELOPMENT OF EYE <ul style="list-style-type: none"> Describe the developmental stages of eye. Discuss the common congenital anomalies of eye. 	ANATOMY	60 minutes	Dr. Inayat	Lecture	Lecture hall – 2, Ground floor, Block-A.
RETINA-1 <ul style="list-style-type: none"> Name the layers of retina. Summarize the functions of rods and cones. Define macula and fovea. Define and elaborate the optic nerve emerging from the optic disc. 	PHYSIOLOGY	45 minutes	Dr. Muhammad Ali	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<p>RETINA-2</p> <ul style="list-style-type: none"> • Define visual field and its parts. • Recognizes the representation of visual field on retina. • Memorize the Visual pathway. • Recognize the visual field defects. • Explain diagrammatically the visual field errors (Hemiopia). • Define binocular, monocular vision and diplopia. 	<p>PHYSIOLOGY</p>	<p>60 minutes</p>	<p>Dr. Saba</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>HISTOLOGY EYE</p> <ul style="list-style-type: none"> • Describe the gross and microscopic structure of eye. • Describe the histological features of the layers of eye. • Describe the various cells of eye. 	<p>ANATOMY</p>	<p>60 minutes</p>	<p>Dr. Inayat</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>FUNDOSCOPY</p> <ul style="list-style-type: none"> • Explain the parts of Fundoscope. • Detail the protocols of Fundoscopy. • Perform Fundoscopy (Ophthalmoscopy) of given subject. 	<p>PHYSIOLOGY</p>	<p>120 minutes</p>	<p>Dr. Sobia</p>	<p>Practical</p>	<p>Physiology laboratory, First floor, Block-A</p>



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<p>OPTICS OF VISION</p> <ul style="list-style-type: none"> • Define refraction of light. • Discuss refractive index. • Discuss image formation on retina. • Discuss biconvex and biconcave lenses. • Define focal length. • Define dioptric power of a lens. • Calculate the refractive power of a reduced eye. 	<p>PHYSIOLOGY</p>	<p>60 minutes</p>	<p>Dr. Saba</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>ERRORS OF REFRACTION</p> <ul style="list-style-type: none"> • Name the errors of refraction. • Explain Myopia (near sightedness) and its correction. • Explain Hyperopia (Long sightedness) and its correction. • Explain Presbyopia and its correction. • Explain stigmatism and its correction. 	<p>PHYSIOLOGY</p>	<p>60 minutes</p>	<p>Dr. Ruqayya</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>STRUCTURE OF RNA</p> <ul style="list-style-type: none"> • 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. 	<p>BIOCHEMISTRY</p>	<p>60 minutes</p>	<p>Dr. Kahkashan</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>



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<ul style="list-style-type: none"> Describe the structure of prokaryotic and eukaryotic ribosomes in relation with rRNA. 					
<p>ACCOMODATION-1</p> <ul style="list-style-type: none"> Define accommodation and explain the changes in the eyeball during accommodation. Name the autonomic control on accommodation. Explain the changes in the lens during accommodation. 	PHYSIOLOGY	45 minutes	Dr. Qamar Aziz	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>ACCOMODATION-2</p> <ul style="list-style-type: none"> Explain the pupillary changes during accommodation. Explain the role of pupils during accommodation. 	PHYSIOLOGY	45 minutes	Dr. Fizzah	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>ACCOMODATION-3</p> <ul style="list-style-type: none"> Explain the advantages of pupillary constriction (chromatic & spherical aberration, image distortion and depth of focus). Explain the accommodation reflex. Define Argyll Robertson Pupil. Differentiate the pathway A.R and ARP. 	PHYSIOLOGY	60 minutes	Dr. Saba Abrar	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<ul style="list-style-type: none"> Explain the importance of medial convergence during accommodation. 					
<p>LIGHT REFLEX</p> <ul style="list-style-type: none"> Define light reflex Describe the pathway of light reflex. Compare the accommodation reflex with the light reflex pathway. Identify the lesion in Argyle Robertson pupil. 	PHYSIOLOGY	60 minutes	Dr. Muhammad Ali	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>EYE DISORDERS</p> <ul style="list-style-type: none"> Describe the pathological features of Styel, Chalazion, Conjunctivitis, Cataract and Glaucoma. 	PATHOLOGY	45 minutes	Dr. Nasima Iqbal	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>PAPILLARY REFLEX ABNORMALITIES</p> <ul style="list-style-type: none"> Nerve supply to the pupillary muscles. Normal response of the pupil to light and accommodation. Effects of interruption in the different levels of innervations on pupillary reflexes. Common abnormalities in pupillary responses. 	OPHTHALMOLOGY	60 minutes	Dr. Mir Amjad	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>REFRACTIVE SURGERY</p> <ul style="list-style-type: none"> Recall normal optics of a healthy eye. 	OPHTHALMOLOGY	60 minutes	Dr. Mir Amjad	Lecture	Lecture hall – 2,



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<ul style="list-style-type: none"> Explain the occurrence of eye conditions like myopia, hypermetropia, astigmatism and presbyopia Recognize the general principles of refractive surgery. 					Ground floor, Block-A.
TRANSCRIPTION-1 <ul style="list-style-type: none"> Define transcription Explain briefly about RNA polymerase and its role in the process of transcription in prokaryotes. 	BIOCHEMISTRY	45 minutes	Dr. Kahkashan	Lecture	Lecture hall – 2, Ground floor, Block-A.
PHOTOCHEMISTRY OF VISION <ul style="list-style-type: none"> Define Rhodopsin. Summarize Rhodopsin cycle. Explain the excitation of Rods and the conduction of action potential through the ganglion cells the visual center. Explain the role of Vit – A in the formation of Rhodopsin. Define night blindness. 	PHYSIOLOGY	60 minutes	Dr. Saba Leeza	Lecture	Lecture hall – 2, Ground floor, Block-A.
COLOUR VISION <ul style="list-style-type: none"> Define color vision. State the theory of duplicity of color vision. 	PHYSIOLOGY	60 minutes	Dr. Saba	Lecture	Lecture hall – 2,



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<ul style="list-style-type: none"> • Distinguish between scotopic and photopic vision. • Identify the photoreceptor involved in color vision. • Name the pigment present in cone cells. • List the functions of cone cells. • Explain the photochemistry of color vision. • Identify the theories of color vision. • Explain the importance of sensitivity of photoreceptors to different wavelengths of light. 					Ground floor, Block-A.
<p>VISUAL ACUITY</p> <ul style="list-style-type: none"> • Define visual acuity. • Recognize visual acuity by using the Snellen's chart. • Explain the principles of Snellen's chart and Explain visual angle. 	PHYSIOLOGY	120 minutes	Dr. Sobia	Practical	Physiology laboratory, First floor, Block-A
<p>TRANSCRIPTION-2</p> <ul style="list-style-type: none"> • Describe the stages of transcription. • Summarize the methods employed by prokaryotes to terminate transcription. 	BIOCHEMISTRY	45 minutes	Dr. Kahkashan	Lecture	Lecture hall – 2, Ground floor, Block-A.



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LIGHT AND DARK ADAPTATION <ul style="list-style-type: none">• Define dark and light adaptation.• Explain the dark adaptation.• Discuss dark adaptation curve.• Explain the importance of dark and light adaptation in vision.	PHYSIOLOGY	60 minutes	Dr. Muhammad Ali	Lecture	Lecture hall – 2, Ground floor, Block-A.
POST-TRANSCRIPTIONAL MODIFICATION <ul style="list-style-type: none">• Discuss about post-transcriptional modifications of m-RNA, t-RNA and r-RNA.	BIOCHEMISTRY	60 minutes	Dr. Benish	Lecture	Lecture hall – 2, Ground floor, Block-A.
MOVEMENTS OF EYEBALL <ul style="list-style-type: none">• List the muscles controlling eyeball movements with their nerve supply.• Explain fixation movements of the eyes.• Explain saccadic movement of the eyes.• Explain pursuit movement of the eyeball.• Recognize strabismus and its types.• Define Horner's Syndrome.• Explain about the lesions which occur in Horner's Syndrome.	PHYSIOLOGY	60 minutes	Dr. Saba	Lecture	Lecture hall – 2, Ground floor, Block-A.



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VISUAL CORTEX-1 <ul style="list-style-type: none">• Memorize primary and secondary visual centers in the Visual Cortex.• Explain the Magnocellular and Parvocellular Pathways terminating in the visual cortex (VC).• Enumerate the six layers of lateral geniculate body and their functions.	PHYSIOLOGY	45 minutes	Dr. Muhammad Ali	Lecture	Lecture hall – 2, Ground floor, Block-A.
VISUAL CORTEX-1 <ul style="list-style-type: none">• Define the function of visual association area.• Enumerate the layers of VC.• Explain the pathways for analysis of visual information.• Define stereopsis.	PHYSIOLOGY	45 minutes	Dr. Muhammad Ali	Lecture	Lecture hall – 2, Ground floor, Block-A.
VITAMIN A <ul style="list-style-type: none">• Identify the different forms of vitamin A.• Recognize the dietary sources and daily requirements of vitamin A.• List the functions of vitamin A and its derivatives.• Describe the role of vitamin A in visual cycle.	BIOCHEMISTRY	60 minutes	Dr. Benish	Lecture	Lecture hall – 2, Ground floor, Block-A.
VISUAL CORTEX-3	PHYSIOLOGY	60 minutes	Dr. Muhammad Ali	Lecture	Lecture hall – 2,



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<ul style="list-style-type: none"> • Define functions of horizontal cells. • Define functions of bipolar cells. • Define functions of “X” & “Y” Ganglion Cells. • Discuss transmission of action potential in ganglion cells. • Name the neurotransmitters released by the photo – receptors. • Explain the electrotonic conduction of impulse in retinal cells. • Define lateral inhibition. 					Ground floor, Block-A.
<p>OPTIC NERVE</p> <ul style="list-style-type: none"> • Describe the origin and course of optic nerve. • List its branches. • Discuss the area of supply of optic nerve. 	ANATOMY	60 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>AMBLYOSCOPY</p> <ul style="list-style-type: none"> • Explain the parts of Amblyoscope. • Detail the protocols of Amblyoscopy. • Perform Amblyoscopy on a given subject. 	PHYSIOLOGY	120 minutes	Dr. Sobia	Practical	Physiology laboratory, First floor, Block-A
<p>SQUINT</p> <ul style="list-style-type: none"> • Recall the functions of extra-ocular muscles. • Classify squint. 	OPHTHALMOLOGY	60 minutes	Dr. Mir Amjad	Lecture	Lecture hall – 2,



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<ul style="list-style-type: none"> • Identify the principles of management of concomitant squint. • Define amblyopia • Discuss the causes and principle of management of amblyopia. 					Ground floor, Block-A.
<p>GENETIC CODE & MUTATION</p> <ul style="list-style-type: none"> • Define the terms genetic code and mutation • Discuss the characteristics of genetic code. • Discuss about point mutation and its effects with examples. • Define frame shift mutations. • Identify the types frameshift mutations. • Describe the features of deletion and insertion mutation with examples. 	BIOCHEMISTRY	60 minutes	Dr. Iffat	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>NOSE</p> <ul style="list-style-type: none"> • 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. 	ANATOMY	60 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<p>NOSE</p> <ul style="list-style-type: none"> Describe the histological features of the epithelium of nasal by observing under the microscope. 	<p>HISTOLOGY</p>	<p>120 minutes</p>	<p>Dr. Aneela</p>	<p>Practical</p>	<p>Histology laboratory, First floor, Block-A</p>
<p>NASAL POLYP</p> <ul style="list-style-type: none"> Recall the opening of various sinuses with their ostia in lateral wall of nose. Define the nasal polyps Discuss the types and pathological features of nasal polyps. 	<p>PATHOLOGY</p>	<p>45 minutes</p>	<p>Dr. Nasima Iqbal</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>DEVIATED NASAL SEPTUM</p> <ul style="list-style-type: none"> Define deviated Nasal septum. Discuss about the causes, clinical features and complications of deviated nasal septum. Associate the steps of surgical correction of deviated nasal septum with the complications which arise due to the procedure. 	<p>ENT</p>	<p>60 minutes</p>	<p>Dr. Maria Mahmood</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>RESEARCH PROJECT AND ITS COMPONENTS-2</p> <ul style="list-style-type: none"> Describe the sections of a research project. 	<p>RESEARCH</p>	<p>45 minutes</p>	<p>Miss Maria</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>



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<p>OLFACTORY NERVE</p> <ul style="list-style-type: none"> Describe the origin and course of olfactory nerve. List its branches. Discuss the area of supply of olfactory nerve 	ANATOMY	45 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>OLFACTION-1</p> <ul style="list-style-type: none"> Discuss the olfactory membrane. Explain the mechanism of excitation of an olfactory cell. Describe the concept of adaptation to smell. Describe the olfactory pathway. 	PHYSIOLOGY	60 minutes	Dr. Qamar	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>OLFACTION-2</p> <ul style="list-style-type: none"> Name the primary sensation of smell. Define odorants and odor blindness. Identify the threshold of smell. Explain the centrifugal control of smell. 	PHYSIOLOGY	45 minutes	Dr. Saba	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>SENSE OF SMELL</p> <ul style="list-style-type: none"> Explain the mechanism smell perception. Test sense of smell of a given subject by using different odorants. Mark the result as “Normal” or “Abnormal”. 	PHYSIOLOGY	120 minutes	Dr. Sobia	Practical	Physiology laboratory, First floor, Block-A



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<p>TRANSLATION-1</p> <ul style="list-style-type: none"> List the materials required for protein synthesis in eukaryotes. Explain the formation of aminoacyl tRNA. Describe the initiation of translation with reference to initiation factors. 	<p>BIOCHEMISTRY</p>	<p>60 minutes</p>	<p>Dr. Iffat</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>PARANASAL SINUSES</p> <ul style="list-style-type: none"> List the para nasal sinuses. Describe the openings of the para nasal sinuses. Describe the neuro vascular supply of the para nasal sinuses. 	<p>ANATOMY</p>	<p>60 minutes</p>	<p>Dr. Shahid</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>SINUSITIS</p> <ul style="list-style-type: none"> Recall the anatomy of paranasal sinuses, their classification, their location with reference to lateral wall of nose and their drainage and functions of these sinuses. Discuss the causes, clinical features and management of acute sinus Infection. 	<p>ENT</p>	<p>45 minutes</p>	<p>Dr. Rehana</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>EQUALITY, JUSTICE & EQUITY</p> <ul style="list-style-type: none"> Define the principle of justice in bioethics. Discuss about the importance of justice in health care profession. 	<p>BIOETHICS</p>	<p>60 minutes</p>	<p>Dr. Mubashara</p>	<p>Lecture</p>	<p>Lecture hall – 2,</p>



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<ul style="list-style-type: none"> Distinguish between equality and equity. 					Ground floor, Block-A.
<p>EXTERNAL EAR</p> <ul style="list-style-type: none"> Identify the parts and structures of the external ear. Describe the neuro vascular supply of its different parts. Discuss the important clinical significance of the external ear. 	ANATOMY	60 minutes	Dr. Mubashara	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>MIDDLE EAR</p> <ul style="list-style-type: none"> Identify the parts and structures of the middle ear. Name the neuro vascular supply of its different parts. Describe the boundaries and content of middle ear cavity. Describe the important clinical significance of the middle ear. 	ANATOMY	60 minutes	Dr. Saba Akram	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>TRANSLATION-2</p> <ul style="list-style-type: none"> Describe the process of elongation with reference to role of elongation factors Describe the termination of protein synthesis. 	BIOCHEMISTRY	60 minutes	Dr. Iffat	Lecture	Lecture hall – 2,



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					Ground floor, Block-A.
POST-TRANSLATIONAL MODIFICATIONS <ul style="list-style-type: none"> Discuss about post-translational modifications of proteins 	BIOCHEMISTRY	45 minutes	Dr. Iffat	Lecture	Lecture hall – 2, Ground floor, Block-A.
INTERNAL EAR <ul style="list-style-type: none"> Identify the parts of the internal ear. Describe the structure of the internal ear. Identify the neuro vascular supply of its different parts. Describe the clinical condition associated with the internal ear. 	ANATOMY	60 minutes	Dr. Saba	Lecture	Lecture hall – 2, Ground floor, Block-A.
EAR <ul style="list-style-type: none"> Describe the histological features of middle ear and cochlear apparatus by observing under the microscope. 	HISTOLOGY	120 minutes	Dr. Aneela	Practical	Histology laboratory, First floor, Block-A
RECOMBINANT DNA TECHNOLOGY-1 <ul style="list-style-type: none"> Define the terms biotechnology, recombinant DNA and recombinant DNA technology. 	BIOCHEMISTRY	60 minutes	Dr. Benish	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<ul style="list-style-type: none"> Identify the applications of recombinant DNA technology List the tools used in recombinant DNA technology. Describe the role of every tool in recombinant DNA technology 					
INTERNAL EAR <ul style="list-style-type: none"> Describe the functions of organ of Corti. Explain endo-cochlear potential. Define place principle theory of hearing. Define decibel. Explain threshold of hearing at different frequencies. 	PHYSIOLOGY	60 minutes	Dr. M. Ali	Lecture	Lecture hall – 2, Ground floor, Block-A.
VESTIBULOCOCHLEAR NERVE <ul style="list-style-type: none"> Describe the Vestibulocochlear nerve and its branches. Identify its pathway and relations. Discuss the applied anatomy of Vestibulocochlear nerve. 	ANATOMY	60 minutes	Dr. Mubashra	Lecture	Lecture hall – 2, Ground floor, Block-A.
PHYSIOLOGY OF HEARING <ul style="list-style-type: none"> Explain the physiological role of outer, middle and inner Ears in conduction of sound. 	PHYSIOLOGY	60 minutes	Dr. Saba	Lecture	Lecture hall – 2,



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<ul style="list-style-type: none"> List the contents of middle ear cavity. Explain the mechanism of sound conduction in middle ear. 					Ground floor, Block-A.
<p>IMPEDANCE MATCHING Discuss about attenuation reflex and Impedance matching.</p>	PHYSIOLOGY	45 minutes	Dr. Saba Abrar	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>RECOMBINANT DNA TECHNOLOGY-2</p> <ul style="list-style-type: none"> Describe the process of DNA cloning. Recognize the importance of Human genome project in creating DNA libraries. 	BIOCHEMISTRY	60 minutes	Dr. Benish	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>AUDITORY PATHWAY</p> <ul style="list-style-type: none"> Identify the auditory centers in the cerebral cortex. Types of deafness. Explain audiograms in deafness. 	PHYSIOLOGY	60 minutes	Dr. Saba Abrar	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>HEARING TEST</p> <ul style="list-style-type: none"> List the Instrument Used in Hearing Test. Perform hearing test by using tuning forks. Differentiate between Nerve deafness & conductive deafness 	PHYSIOLOGY	120 minutes	Dr. Sobia	Practical	Physiology laboratory, First floor, Block-A



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<p>EXTERNAL EAR AND MIDDLE EAR CLEFT AND ITS COMMON PATHOLOGIES</p> <ul style="list-style-type: none"> • Discuss about external ear pathologies related excess wax secretion, foreign bodies dislodgement, otitis externa and fungal infections. • Define otitis media • Classify types of otitis media • Identify pathological features of acute suppurative otitis media. 	<p>ENT</p>	<p>60 minutes</p>	<p>Dr. Maria Mehmood</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>RECOMBINANT DNA TECHNOLOGY-3</p> <ul style="list-style-type: none"> • Describe the process of polymerase chain reaction (PCR) • Identify the advantages of PCR • List the applications of PCR. 	<p>BIOCHEMISTRY</p>	<p>60 minutes</p>	<p>Dr. Kahkashan</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>
<p>ORAL CAVITY</p> <ul style="list-style-type: none"> • Describe the boundaries and contents of oral cavity. • Describe the permanent and deciduous teeth. • Name the nerve supply of upper and lower teeth. 	<p>ANATOMY</p>	<p>45 minutes</p>	<p>Dr. Sarosh</p>	<p>Lecture</p>	<p>Lecture hall – 2, Ground floor, Block-A.</p>



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<p>TONGUE & HYPOGLOSSAL NERVE</p> <ul style="list-style-type: none"> Describe the extrinsic & intrinsic muscles of the tongue. Describe the nerve supply & lymphatic drainage of tongue 	ANATOMY	45 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>HISTOLOGY OF TONGUE</p> <ul style="list-style-type: none"> Describe the microscopic features of tongue. Describe the various tongue papillae. 	ANATOMY	45 minutes	Dr. Inayat	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>TONGUE</p> <ul style="list-style-type: none"> Describe the microscopic features of tongue. Describe the various tongue papillae. 	HISTOLOGY	120 minutes	Dr. Aneela	Practical	Histology laboratory, First floor, Block-A
<p>DEVELOPMENT OF TONGUE</p> <ul style="list-style-type: none"> Describe the development of tongue. Describe the various anomalies of tongue development. 	ANATOMY	45 minutes	Dr. Inayat	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>TASTE-1</p> <ul style="list-style-type: none"> Define types of primary tastes with examples. Enumerate the taste buds and their locations. Summarize a taste cells. Name the different types of papillae and their locations. 	PHYSIOLOGY	45 minutes	Dr. Saba Abrar	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<ul style="list-style-type: none"> Enumerate the pathway of taste. 					
TASTE-2 <ul style="list-style-type: none"> Discuss the mechanism of stimulation of taste buds. Discuss the role of saliva in taste. Define taste blindness. Define adaptation of taste. Define taste preferences and taste aversion. 	PHYSIOLOGY	60 minutes	Dr. Muhammad Ali	Lecture	Lecture hall – 2, Ground floor, Block-A.
SENSE OF TASTE <ul style="list-style-type: none"> Explain the mechanism smell perception. Test sense of smell of a given subject by using different odorants. Mark the result as “Normal” or “Abnormal”. 	PHYSIOLOGY	120 minutes	Dr. Sobia	Practical	Physiology laboratory, First floor, Block-A
ORAL CAVITY DISEASES <ul style="list-style-type: none"> Classify the types of oral ulcers List the pre-malignant conditions of oral cavity. Describe the morphology of squamous cell carcinoma & basil cell carcinoma. Enumerate the risk factors of squamous cell carcinoma & basil cell carcinoma. 	PATHOLOGY	60 minutes	Dr. Naseema Iqbal	Lecture	Lecture hall – 2, Ground floor, Block-A.



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PAROTID REGION <ul style="list-style-type: none">• Describe major & minor salivary glands.• Describe the structure of Parotid and its location.• Describe the location and openings of the parotid duct.	ANATOMY	45 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
SUBMANDIBULAR REGION <ul style="list-style-type: none">• Describe the submandibular gland.• Describe the location and openings of the duct of sub-mandibular gland.	ANATOMY	45 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
SALIVARY GLANDS <ul style="list-style-type: none">• 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.	HISTOLOGY	120 minutes	Dr. Aneela	Practical	Histology laboratory, First floor, Block-A
DISORDERS OF SALIVARY GLANDS <ul style="list-style-type: none">• Define Sialadenitis.• List the causes of sialadenitis.• List Benign and Malignant tumors of Salivary Glands.	PATHOLOGY	45 minutes	Dr. Rozina	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<ul style="list-style-type: none"> Describe the morphological feature of Pleomorphic Adenoma. 					
<p>SURGICAL ANATOMY AND PATHOPHYSIOLOGY OF SALIVARY GLANDS DISEASE</p> <ul style="list-style-type: none"> Explain the surgical anatomy of salivary glands Describe pathology and clinical features of salivary gland disease. 	SURGERY	45 minutes	Dr. Shafkat ullah	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>APPLIED ANATOMY OF HEAD & NECK</p> <ul style="list-style-type: none"> Identify the indications for the management of epilepsy and pain syndromes and the approaches required to treat the patient Discuss the etiology and natural history of squamous cell carcinoma of upper aerodigestive tract. 	SURGERY	60 minutes	Dr. Sidra Abbas	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>GLOSSOPHARYNGEAL AND VAGUS NERVE</p> <ul style="list-style-type: none"> Describe the origin and course of glossopharyngeal and vagus nerve. List their branches. Discuss the area of supply of glossopharyngeal and vagus nerve. 	ANATOMY	45 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.



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PAROTITIS, PLEOMORPHIC ADENOMA AND SIALOLITHIASIS <ul style="list-style-type: none">Recall the classification of salivary glands.Discuss about salivary gland pathologies and their management.	ENT	45 minutes	Dr. Rehana Babar	Lecture	Lecture hall – 2, Ground floor, Block-A.
MUSCLE OF MASTICATION <ul style="list-style-type: none">Identify the muscles of mastication.Describe the movements of TMJ with the muscles involved.Describe the neuro vascular supply of it.	ANATOMY	45 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
HYOID BONE <ul style="list-style-type: none">Describe the structure of hyoid bone.State the anatomical importance of hyoid bone in relation to structures and muscles located around it.	ANATOMY	45 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
PARASYMPATHETIC GANGLION <ul style="list-style-type: none">Describe the structure of parasympathetic ganglion in relation to preganglionic and postganglionic fibres arising from it.Identify the structures it offers its innervation to.	ANATOMY	45 minutes	Dr. Mubashara	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<p>DEEP CERVICAL FASCIA AND PLATYSMA MUSCLE</p> <ul style="list-style-type: none"> Describe the deep cervical fascia and its location. Describe platysma muscle. 	ANATOMY	60 minutes	Dr. Mubashara	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>CERVICAL PLEXUS</p> <ul style="list-style-type: none"> Name the nerve root of cervical plexus. Describe the formation and branches of cervical plexus. 	ANATOMY	60 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>CERVICAL VERTEBRAE</p> <ul style="list-style-type: none"> Identify the cervical vertebra. Describe the features and joints formed by cervical vertebrae. Differentiate between typical and atypical vertebrae.. Describe the important clinical significance of cervical vertebra. 	ANATOMY	60 minutes	Dr. Saba Akram	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>PRETRACHEAL FASCIA, CAROTID SHEATH AND TISSUE SPACES OF NECK-1</p> <ul style="list-style-type: none"> Describe the pretracheal fascia and its location. Describe the carotid sheath and their 	ANATOMY	45 minutes	Dr. Mubashara	Lecture	Lecture hall – 2, Ground floor, Block-A.



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contents.					
<p>PRETRACHEAL FASCIA, CAROTID SHEATH AND TISSUE SPACES OF NECK-2</p> <ul style="list-style-type: none"> Describe the relations of carotid sheath and pretracheal fascia. Describe the various tissue spaces of neck, their contents and their relations. 	ANATOMY	45 minutes	Dr. Saba Akram	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>PREVERTEBRAL FASCIA</p> <ul style="list-style-type: none"> Describe the pre-vertebral fascia and its location. Describe the relations of carotid sheath and pre-vertebral fascia. 	ANATOMY	45 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>RECOMBINANT DNA TECHNOLOGY-4</p> <ul style="list-style-type: none"> 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. 	BIOCHEMISTRY	60 minutes	Dr. Benish	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>STERNOCLEIDOMASTOID & TRAPEZIUS MUSCLES ACCESSORY NERVE</p> <ul style="list-style-type: none"> Identify sternocleidomastoid muscle and 	ANATOMY	60 minutes	Dr. Saba Akram	Lecture	Lecture hall – 2,



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<p>trapezius muscle..</p> <ul style="list-style-type: none"> • Describe the attachment of,nerve supply and action of sternocleidomastoid. • Describe the attachment ,nerve supply and action of trapezius muscle. 					Ground floor, Block-A.
<p>INFORMED CONSENT AND REFUSAL OF TREATMENT</p> <ul style="list-style-type: none"> • Describe four principles of health care ethics. • Define informed consent. • Discuss the elements of informed consent. • Enumerate the types of informed consent. 	BIOETHICS	60 minutes	Dr. Mubashara	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>ANTERIOR TRIANGLE OF NECK</p> <ul style="list-style-type: none"> • Describe the anterior triangle of the neck. • Name the subdivision of anterior triangle • Describe the boundaries and content of subdivision of anterior triangle. 	ANATOMY	60 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>POSTERIOR TRIANGLE OF NECK</p> <ul style="list-style-type: none"> • Describe the posterior triangle of the neck. • Name the subdivision of anterior triangle • Describe the boundaries and content of subdivision of the posterior triangle of neck. 	ANATOMY	60 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<p>NECK RADIOLOGY</p> <ul style="list-style-type: none"> Identify the radiological anatomy of neck. Know about view of neck. Defend the need for next appropriate radiological investigation like other views of x-ray, ultrasound, CT and MRI. 	RADIOLOGY	60 minutes	Dr. Touqeer	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>SUPRAHYOID MUSCLES</p> <ul style="list-style-type: none"> Describe the location of suprahyoid muscles. Describe the attachment of suprahyoid muscles. Mention the nerve supply and actions of suprahyoid muscles. 	ANATOMY	60 minutes	Dr. Saba Akram	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>INFRAHYOID MUSCLES</p> <ul style="list-style-type: none"> Describe the location of infrahyoid muscles. Describe the attachment of infrahyoid muscles. Mention the nerve supply and actions of infrahyoid muscles. 	ANATOMY	60 minutes	Dr. Mubashara	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>LYMPHATICS OF NECK</p> <ul style="list-style-type: none"> Describe the lymphatic drainage of the neck. Describe the applied anatomy of the lymphatic drainage of the neck. 	ANATOMY	45 minutes	Dr. Saba Akram	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<p>RECOMBINANT DNA TECHNOLOGY-5</p> <ul style="list-style-type: none"> • Define ELISA. • Identify the purpose of performing ELISA on a body fluid sample. • Describe the principle of ELISA. • Classify the types of ELISA tests. • List the applications of ELISA tests in medicine. 	BIOCHEMISTRY	60 minutes	Dr. Iffat	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>ROOT OF NECK</p> <ul style="list-style-type: none"> • Describe the landmarks and fascia of the root of neck. • Describe the structures passing through the root of neck. 	ANATOMY	45 minutes	Dr. Mubashara	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>VEINS OF NECK</p> <ul style="list-style-type: none"> • Identify the arteries of the neck. • Describe arteries of head and neck. 	ANATOMY	45 minutes	Dr. Sarosh	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>CRANIAL NERVES-1</p> <ul style="list-style-type: none"> • Describe the olfactory nerve, and its pathway. • Identify optic, oculomotor, trochlear, abducent nerves their pathway and branches. • Describe the trigeminal nerve, branches, and its pathway. • Describe the facial nerve, branches, and its 	ANATOMY	60 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<p>pathway.</p> <ul style="list-style-type: none"> • Discuss the applied anatomy. 					
<p>CRANIAL NERVES-2</p> <ul style="list-style-type: none"> • Describe the vestibulocochlear nerve, branches, and its pathway. • Describe glassophalangeal, vagus, accessory and hypoglossal nerves. • Discuss the applied anatomy of cranial nerves. 	ANATOMY	60 minutes	Dr. Shahid	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>LESIONS OF CRANIAL NERVE</p> <ul style="list-style-type: none"> • Discuss the common cranial nerve lesions with their presentation. 	MEDICINE	45 minutes	Dr. Adil Khan	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>ARTERIES OF NECK</p> <ul style="list-style-type: none"> • Identify the arteries of the neck. • Describe arteries of head and neck. 	ANATOMY	45 minutes	Dr. Saba Akram	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>CERVICAL SYMPATHETIC TRUNK-1</p> <ul style="list-style-type: none"> • Discuss the organization of the autonomic nervous system. • Describe the sympathetic and parasympathetic nervous system. 	ANATOMY	45 minutes	Dr. Mubashara	Lecture	Lecture hall – 2, Ground floor, Block-A.



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<ul style="list-style-type: none"> Describe cervical sympathetic trunk. 					
<p>CERVICAL SYMPATHETIC TRUNK-2</p> <ul style="list-style-type: none"> Describe the sympathetic autonomic ganglia. Describe some important autonomic innervations. Discuss some important reflexes involving the nervous system. 	ANATOMY	45 minutes	Dr. Saba Akram	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>INFORMED CONSENT AND REFUSAL OF TREATMENT -2</p> <ul style="list-style-type: none"> Define concept of informed consent. Discuss when informed consent needed and not needed. Describe the conditions needed for consent to be valid. 	BIOETHICS	60 minutes	Dr. Mubashara	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>CONSTITUTION OF 1956 Describe and explain the Constitution of 1956</p>	PAKISTAN STUDIES	45 minutes	Miss Uzma	Lecture	Lecture hall – 2, Ground floor, Block-A.
<p>CONSTITUTION OF 1962 Describe and explain the Constitution of 1962</p>	PAKISTAN STUDIES	45 minutes	Miss Uzma	Lecture	Lecture hall – 2,



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					Ground floor, Block-A.
CONSTITUTION OF 1973 Describe and explain the Constitution of 1973	PAKISTAN STUDIES	45 minutes	Miss Uzma	Lecture	Lecture hall – 2, Ground floor, Block-A.
	PAKISTAN STUDIES	45 minutes	Miss Uzma	Lecture	Lecture hall – 2, Ground floor, Block-A.



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REFERENCE BOOKS AND OTHER READING RESOURCES:

Gross Anatomy	BD Chaurasia's Handbook of GENERAL ANATOMY Netter Atlas of Human Anatomy Snell's Clinical Anatomy by Regions Gray's Anatomy for Students.
Embryology	Langman's Medical Embryology The Developing Human by Keith L. Moore



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Histology	Histology by Laiq Hussain Siddiqui
Physiology	Guyton and Hall. Textbook of Medical Physiology, 13 th Edition. Ganong's Review of Medical Physiology, 24 th Edition. Essentials of Medical Physiology by K.Sembulingam
Biochemistry	Textbook of Medical Biochemistry M.N.Chatterjee and Rana Shinde Textbook of Biochemistry for Medical Students Damodaran M Vasudevan and S. Sreekumari Harper's Illustrated Biochemistry
Pathology	Robin's Basic Pathology-10 th Edition
Pharmacology	<u>Essential</u> - Bertram G. Katzung. Basic and Clinical Pharmacology, 14 th Edition. 2017. - Katzung and Trevor's pharmacology Examination and Board Review 11 th Edition 2015. <u>Recommended</u> - Lippincott's illustrated review of Pharmacology. 6 th Edition. 2015.
Pakistan Studies	1. Burki, Shahid Javed. State & Society in Pakistan, The Macmillan Press Ltd 1980. 2. Akbar, S. Zaidi. Issue in Pakistan's Economy. Karachi: Oxford University Press, 2000. 3. . SM. Burke and Lawrence Ziring. Pakistan's Foreign policy: An Historical analysis. Karachi: Oxford University Press, 1993. 4. Mehmood, Safdar. Pakistan Political Roots & Development. Lahore, 1994. 5. Wilcox, Wayne. The Emergence of Bangladesh., Washington: American Enterprise, Institute of Public Policy Research, 1972. 6. Mehmood, Safdar. Pakistan Kayyun Toota, Lahore: Idara-e-Saqafat- e-Islamia, Club Road, nd. 7. Amin, Tahir. Ethno - National Movement in Pakistan, Islamabad: Institute of Policy Studies, Islamabad. 8. Ziring, Lawrence. Enigma of Political Development. Kent England: WmDawson& sons Ltd, 1980.



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	9. Zahid, Ansar. History & Culture of Sindh. Karachi: Royal Book Company, 1980. 10. Afzal, M Rafique. Political Parties in Pakistan, Vol. I, II & III. Islamabad: National Institute of Historical and cultural Research, 1998.
Community Medicine	Ilyas M, Public Health and Community Medicine, 7 th Edition, Karachi, Pakistan, Time Publisher, 2007. Maxcy-Rosenau-Last, public Health and Preventive Medicine, 13 th Edition, USA, Prentice-Hall International Inc, 1992. K.Park, Preventive and Social Medicine, 20 th Edition, Jabalpur (India), M/s BanarsidasBhanot, Publisher, 2009.
General Medicine	Davidson`s Principles and Practice of Medicine-22 nd Edition
Clinical Examination	Talley and O'Connor's Clinical Examination-6 th Edition
General Surgery	Bailey And Love Short Practice Of Surgery, 27 th Edition Last`s anatomy 12 th edition Snell`s anatomy by regions 10 th edition
Research	Introduction to Research in Health Sciences- Stephen Polgar, Shane A. Thomas. Biomedical Research Proposal Writing- Syed Sharaf Ali Shah, ZarfshanTahir, Rozina Karmaliani. Epidemiology - Leon Gordis; Fifth Edition.
PEARLs	https://www.mededportal.org/publication/10610/
Paediatrics	Nelson Textbook of Pediatric 21 st edition. Textbook of Paediatrics (PPA) Fifth edition. Basis of Pediatrics (Pervez Akbar Khan) 10 th edition

ASSESSMENT METHODS:



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THEORY:

❖ **Essay Questions- Short Essay Questions (SEQs)** are used to assess objectives covered in each module.

- 6 SEQs are given (no choice).
- Time duration 90 minutes.
- Students write the answer in the provided answer sheet.

❖ **Multiple Choice Questions (MCQs)** are used to assess objectives covered in each module.

- An MCQ has a statement or clinical scenario followed by four options (likely answer).
- Students after reading the statement/scenario select ONE, the most appropriate response from the given list of options.
- Correct answer carries one mark, and incorrect 'zero mark'. There is no negative marking.
- Students mark their responses on specified computer-based/OMR sheet designed for BMC, BMU.

❖ **OSPE/OSCE: Objective Structured Practical/Clinical Examination:**

- Each student will be assessed on the same content and have same time to complete the task.
- Comprise of 05 stations.
- Each station may assess a variety of clinical tasks; these tasks may include history taking, physical examination, skills and application of skills and knowledge.
- Stations are observed, unobserved, interactive and rest stations.
- Observed and interactive stations will be assessed by internal or external examiners.
- Unobserved will be static stations in which there may be an X-ray, Labs reports, pictures, Biochemical estimation tests graph construction tasks or clinical scenarios with related questions for students to answer.
- Rest station is a station where there is no task given and in this time student can organize his/her thoughts.

INTERNAL EVALUATION:

- Students will be assessed to determine achievement of module objectives through the following:



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- **Module Examination:** will be scheduled on completion of each module. The method of examination comprises theory exam which includes MCQs and OSPE (Objective Structured Practical Examination).
- **Formative Assessment of students combined:** Quiz, viva, practical, assignment, small group activities such as CBL, online assessment, and Practical journal work.
- Marks and attendance of modular examination and formative assessment respectively will constitute 20% weightage which will be added to the marksheet of Second Professional Annual Examination.

FORMATIVE ASSESSMENT:

- Individual departments or group of departments may hold quiz or short answer questions to help students assess their own learning.
- The marks obtained are not included in the internal evaluation.
- .



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**More than 75% attendance is needed
to sit for the modular and final
examinations**



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2024
WEEK 1**

DAYS	8:30-9:30 am	9:30-10:30 am	10:30-11:00 am	11:00 am-12:00 pm	12:00-1:00 pm	1:00-1:30 pm	1:30-2:30 pm	2:30-4:30 pm
29-07-2024 DAY 1	ENDOCRINE MODULE EXAM							
30-07-2024 DAY 2	Anatomy Bones And Joints Of Skull	Anatomy Development Of Skull	Tea Break	Biochemistry Structure Of DNA	Pakista n Studie s	Lunch & Prayer break	Anatomy Norma Verticalis	Anatomy Norma Occipitalis
31-07-2024 DAY 3	Biochemistry DNA Replication- 1	Anatomy Norma Frontalis		Surgery Head & Neck Surgery-I	SDL		Research	Anatomy Norma Lateralis
01-08-2024 DAY 4	Anatomy Norma Basalis- I	Biochemistry DNA Replication-II		SDL	PEARLS		Anatomy Norma Basalis-II	Anatomy Development Of Pharyngeal Apparatus I
02-08-2024 DAY 5	Anatomy Scalp	Anatomy Histology Of Scalp		Behavioural Sciences Bio Psychosocial Model	SDL		Community Medicine Injuries & Their Control	Anatomy Mandible



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TENTATIVE HEAD & NECK MODULE
2024
WEEK 2**

DAYS	8:30-9:30 am	9:30-10:30 am	10:30-11:00 am	11:00 am-12:00 pm	12:00-1:00 pm	1:00-1:30 pm	1:30-2:30 pm	2:30-4:30 pm
05-08-2024 DAY 1	Biochemistry DNA repair I	Anatomy Temporal fossa	Tea Break	Radiology Radiological anatomy of head	PEARLS	Lunch & Prayer break	Anatomy Embryology Pharyngeal apparatus	Anatomy TMJ
06-08-2024 DAY 2	Anatomy Infratemporal fossa	Anatomy Development Of face		SDL	Pakista n Studie s		Biochemistry DNA repair II	Anatomy Nerves and blood vessels of face
07-08-2024 DAY 3	Anatomy Muscles of face	Anatomy Eyelid and lacrimal gland		Research	SDL		Anatomy Orbit and its content	Anatomy Eye ball and its content
8-08-2024 DAY 4	Physiology Eye ball	Anatomy Embryology Development of eye		PRACTICAL A, B & C Histology- Scalp- G#A Physiology-Fundoscopy- G#C SDL- G#B			Pathology Eye disorders	Physiology Retina-I
9-08-2024 DAY 5	Physiology Retina-II	Anatomy Histology eye		PRACTICAL A, B & C Histology- Scalp- G#C Physiology- Fundoscopy- G#B SDL-G#A			1:30-2:00 Physiology Optics of vision	2:30-4:00 PRACTICAL A, B & C Histology-Scalp- G#B Physiology- Fundoscopy- G#A SDL-G#C



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WEEK 3**

DAYS	8:30-9:30 am	9:30-10:30 am	10:30-11:00 am	11:00 am-12:00 pm	12:00-1:00 pm	1:00-1:30 pm	1:30-2:30 pm	2:30-4:30 pm
11-08-2024 DAY 1	Physiology Errors of refraction	Ophthalmology refractive surgery		Pearls	Pakistan Studies		Biochemistry Structure of RNA	Physiology Accommodation I
12-08-2024 DAY 2	Physiology Accommodation II	Physiology Light reflex	Tea Break	Ophthalmology Papillary reflex abnormalities	SDL	Lunch & Prayer break	Biochemistry Transcription-I	Physiology Photochemistry of vision
13-08-2024 DAY 3	Physiology Color vision	Biochemistry Transcription-II		PRACTICAL A, B & C Histology- EYE-G#A Physiology- Visual acuity - G#C SDL- G#B			Physiology Light and dark adaptation	Biochemistry Post transcription modification
14-08-2024 DAY 4	INDEPENDENCE DAY HOLIDAY			INDEPENDENCE DAY HOLIDAY			INDEPENDENCE DAY HOLIDAY	
15-08-2024 DAY 5	Physiology Movements of the eyeball	Ophthalmology Squint		PRACTICAL A, B & C Histology- EYE- G#C Physiology- Visual acuity - G#B SDL-G#A			1:30-2:30 Physiology Visual cortex-1	2:30-4:00 PRACTICAL A, B & C Histology-EYE- G#B Physiology- Visual acuity - G#A SDL-G#C



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WEEK 4**

DAYS	8:30-9:30 am	9:30-10:30 am	10:30-11:00 am	11:00 am-12:00 pm	12:00-1:00 pm	1:00-1:30 pm	1:30-2:30 pm	2:30-4:30 pm
19-08-2024 DAY 1	Biochemistry Vitamin A	Physiology Visual cortex-II	Tea Break	B.Sciences Emotions and Motivation	SDL	Lunch & Prayer break	Anatomy Optic Nerve	Biochemistry Genetic Code And Mutation
20-08-2024 DAY 2	Anatomy Nose	ENT Deviated Nasal Septum		SDL	Pakistan Studies		RESEARCH	Anatomy Olfactory Nerve
21-08-2024 DAY 3	Bioethics Medical Negligence	Pearls		Formative Assessment	SDL		Physiology Olfaction	Biochemistry Translation I
22-08-2024 DAY 4	Anatomy Para nasal Sinuses	ENT Sinusitis		PRACTICAL A, B & C Histology- NOSE- G#A Physiology-Amblyoscopy- G#C			1:30-2:30 Pathology Nasal Polyp	2:30-4:30 APPLIED ANATOMY
23-08-2024 DAY 5	Anatomy External Ear	Anatomy Middle Ear		PRACTICAL A, B & C Histology- NOSE- G#C Physiology- Amblyoscopy- - G#B			1:30-2:30 Biochemistry Translation II	2:30-4:30 PRACTICAL A, B & C Histology-NOSE- G#B Physiology- - Amblyoscopy- G#A SDL-G#C



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WEEK 5**

DAYS	8:30-9:30 am	9:30-10:30 am	10:30-11:00 am	11:00 am-12:00 pm	12:00-1:00 pm	1:00-1:30 pm	1:30-2:30 pm	2:30-4:30 pm
26-08-2024 DAY 1	Biochemistry Post- Translational Modification	SDL	Tea Break	CBL		Lunch & Prayer break	Biochemistry Recombinant DNA Technology-1	Physiology Internal Ear
27-08-2024 DAY 2	Anatomy Vestibulocochlear Nerve	Physiology Physiology Of Hearing		SDL	Pakistan Studies (MISS UZMA)		Physiology Impedance Matching(DR SABA ABRAR)	Biochemistry Recombinant DNA Technology-II (DR BENISH)
28-08-2024 DAY 3	Physiology Auditory Pathway (DR SABA ABRAR)	ENT External Ear And Middle Ear Cleft And Its Common Pathologies (DR MARIA MAHMOOD)		Biochemistry Recombinant DNA Technology-III	SDL		Surgery Applied anatomy of head & neck (DR SIDRA ABBAS)	Anatomy Oral Cavity (DR SAROSH)
20-08-2024 DAY 4	PRACTICAL A, B & C Histology- Ear G#A(DR ANEELA) Physiology- hearing test- G#C DR SOBIA) SDL- G#B			PRACTICAL A, B & C Histology- Ear G#A(DR ANEELA) Physiology- hearing test- G#C DR SOBIA) SDL- G#B			Anatomy Tongue Hypoglossal nerve (DR SHAHID)	PRACTICAL A, B & C Histology- Ear G#A(DR ANEELA) Physiology- hearing test- G#C DR SOBIA) SDL- G#B
30-09-2024 DAY 5	Physiology Taste (DR SABA ABRAR)	Pearls (DR SAIMA QAMAR)		Anatomy Histology Of Tongue (DR INAYAT)	Pathology Oral Cavity Disease (DR		Anatomy Parotid Region (DR SHAHID)	



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WEEK 6**

DAYS	8:30-9:15 am	9:15-10:00 am	10:00-11:00 am 11:00 am-12:00 pm	12:00-1:00 pm	1:00-1:30 pm	1:30-2:30 pm	2:30-4:30 pm
02-09-2024 DAY 1	Anatomy Submandibular Region (DR SHAHID)	Pathology Disorders Of Salivary Glands DR ROZINA/DR SIDRA	ANNUAL SPORTS WEEK 2024				
03-09-2024 DAY 2	Anatomy Glossopharyngeal and vagus nerve (DR SAROSH)	ENT Parotitis, Pleomorphic Adema And Sialolithiasis(DR REHANA BABAR)	ANNUAL SPORTS WEEK 2024				
04-09-2024 DAY 3	8:30-9:15am Anatomy Muscle Of Mastication (DR SHAHID)	9:15:00 am Pearls (DR SAIMA QAMAR)	ANNUAL SPORTS WEEK 2024				
05-09-2024 DAY 4	Anatomy Hyoid Bone (DR SAROSH)	Anatomy Parasympathetic Ganglion (DR MUBASHARA)	ANNUAL SPORTS WEEK 2024				
06-09-2024 DAY 5	Anatomy Deep Cervical Fascia And Platysma Muscle (DR MUBASHARA)	F.MEDICINE Trauma To The Head & Neck I(DR JANE ALAM)	ANNUAL SPORTS WEEK 2024				



BAQAI MEDICAL UNIVERSITY BAQAI MEDICAL COLLEGE SECOND YEAR M.B.B.S. HEAD & NECK MODULAR STUDY GUIDE - 2024

HEAD & NECK MODULE 2024 WEEK 7

DAYS	8:30-9:30 am	9:30-10:30 am	10:30-11:00 am	11:00 am-12:00 pm	12:00-1:00 pm	1:00-1:30 pm	1:30-2:30 pm	2:30-4:00 pm
9-09-2024 DAY 1	Anatomy Cervical Plexus (DR SHAHID)	SDL	Tea Break	Anatomy Cervical Vertebrae (DR SABA AKRAM)	Anatomy Pretracheal Fascia, Carotid Sheath And Tissue Spaces Of Neck (DR MUBAS HARA)	Lunch & Prayer break	Anatomy Pre-Vertebral Fascia (DR SAROSH)	B.Sciences Doctor patient relationship (MISS AZRA)
10-09-2024 DAY 2	Surgery Developmental abnormalities of face and jaw/emergency treatment of airway obstruction (DR ABID OWAIS)	Biochemistry Recombinant DNA Technology-Iv (DR BENISH)	Tea Break	Anatomy Sternocleidomastoid & Trapezius Muscles ACCESSORY NERVE (DR SABA AKRAM)	SDL	Lunch & Prayer break	Anatomy Anterior Triangle Of Neck (DR SAROSH)	Anatomy Posterior Triangle Of Neck (DR SAROSH)
11-09-2024 DAY 3	Radiology Neck Radiology	Pearls (DR SAJMA QAMAR)	Tea Break	SDL	Anatomy Suprahyoid Muscles (DR SABA AKRAM)	Lunch & Prayer break	Anatomy Infrahyoid Muscles DR MUBASHARA	Lymphatics of neck (DR SABA AKRAM)
12-09-2024 DAY 4	Biochemistry Recombinant DNA Technology-v	Surgery Surgical anatomy and pathophysiology of salivary glands disease (DR SHAFATUKLL AH)		PRACTICAL A, B & C Histology- tongue- G#A(DR ANEELA) Physiology-- G#C sense of taste- (DR SOBIA) SDL- G#B			SDL	F.MEDICINE Trauma To The Head & Neck II
13-09-2024 DAY 5	Anatomy Veins of neck (DR SAROSH)	Anatomy Cranial nerves I (DR SHAHID)		PRACTICAL A, B & C Histology-tongue- G#C(DR ANEELA) Physiology- sense of taste- - G#B (DR SOBIA) SDL-G#A			1:30-2:30 SDL	2:30-4:30 PRACTICAL A, B & C HistologG#B tongue- (DR ANEELA) Physiology- sense of taste- - - G#A (DR SOBIA) SDL-G#C



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**BAQAI MEDICAL COLLEGE
TIME TABLE FOR 2nd YEAR MBBS
TENTATIVE HEAD & NECK
MODULE 2024 WEEK 8**

DAYS	8:30-9:30 am	9:30-10:30 am	10:3-11:00 am	11:00 am-12:00 pm	12:00-1:00 pm	1:00-1:30 pm	1:30-2:30 pm	2:30-4:00 pm
16-09-2024 DAY 1	Anatomy Cranial nerves II (DR SHAHID)	Medicine Lesions Of Cranial Nerve (DR ADIL KHAN)	Tea Break	Anatomy Arteries of neck (DR SABA AKRAM)	Anatomy Cervical Sympathetic Trunk (DR MUBASHARA)	Lunch & Prayer break	SDL	Anatomy HEAD LRC (MODELS) (DR SAROSH)
17-09 -2024 DAY 2	Bioethics Informed consent and refusal of treatment II (DR MUBASHARA)	Anatomy Internal Ear		Surgery Head And Neck Surgery Pathophysiology of head trauma (DR DANISH)	Pakistan Studies (MISS UZMA)		SDL	Anatomy Development Of Tongue (DR INAYAT)
18--09-2024 DAY 3	Formative Assessment (DR SABA ABRAR) (DR BENISH) (DR MUBASHARA)	SDL		CBL			Bioethics Informed consent and refusal of treatment (DR MUBASHA RA)	Anatomy ROOT OF NECK
19-09-2024 DAY 4	BIOCHEMISTRY Review Class			PRACTICAL A, B & C Histology- Glands G#A(DR ANEELA) Physiology-- G#C sense of smell-(DR SOBIA) SDL- G#B			SDL	ANATOMY Review Class
20-09-2024 DAY 5	PHYSIOLOGY Review Class			PRACTICAL A, B & C HistologyGlands - G# C(DR ANEELA) Physiology- sense of smell- -- G#B(DR SOBIA) SDL-G#A			1:30-2:30 SDL	2:30-4:30 PRACTICAL A, B & C Histology-- G#B Glands (DR ANEELA) Physiology----- sense of smell-(DR SOBIA) SDL-G#C



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