

BAQAI MEDICAL COLLEGE

FIRST PROFESSIONAL M.B.B.S

STUDY GUIDE 2024 - 2025

CARDIOVASCULAR (CVS) MODULE

5 weeks





51-Deh Tor, Gadap Road, Super Highway. P.O Box: 2407, Karachi-75340, Pakistan. Phone (092-21)34410-293 to 298, 34410-427 to 430. Fax: (092-21)34410-317, 34410-43. Email: <u>info@baqai.edu.pk</u>, Web: <u>www.baqai.edu.pk/</u>

TABLE OF CONTENTS

1. Title page

2. Table of Contents

3. List of Abbreviations

4. Baqai Medical University Vision, Mission and Baqai Medical College Mission

5. M.B.B.S. Program Outcomes

6. M.B.B.S. Curriculum Committee Team Members

7. CIC Spiral – I 1st Year MBBS Study Guide, Time Table and CBL Team Members

8. Introduction To CVS Module Guide

9. CVS Modular Outcomes

10. Integrated Teaching

11. Topics with Objectives, Subject, Teaching Strategy, Facilitator, Duration, Venue





12. Reference Books and Other Reading Resources

13. Assessment Methods

14. Time Table of 1st Year M.B.B.S CVS Module

LIST OF ABBREVIATIONS

- BMC Baqai Medical College
- BMU Baqai Medical University
- LGIF Large Group Interactive Format
- LOs Learning Objectives
- MCQs Multiple Choice Questions





- OSCE Objective Structured Clinical Examination
- OSPE Objective Structured Practical Examination
- PEaRLS Professionalism, Ethics, Research, Leadership, Communication Skills
- SDL Self Directed Learning
- SGD / SGT Small Group Discussion / Small Group Teaching
- 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.



epartment of Physiology



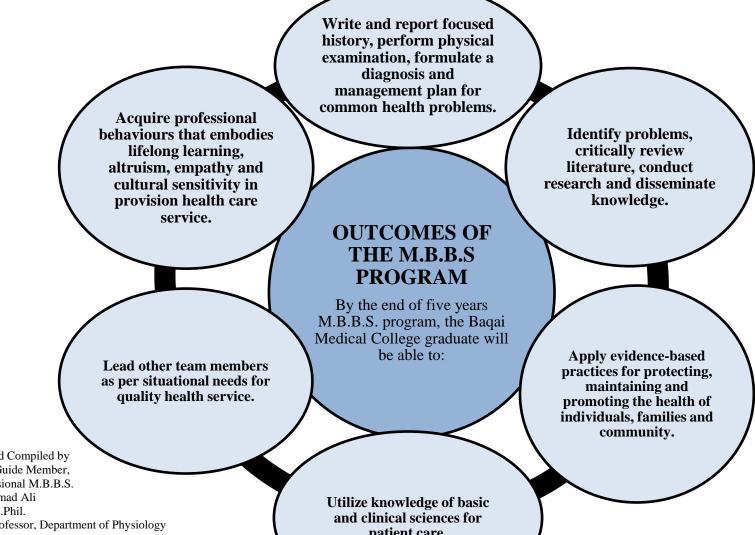


BAQAI MEDICAL COLLEGE MISSION STATEMENT

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.







Prepared and Compiled by The Study Guide Member, First Professional M.B.B.S. Dr. Muhammad Ali MBBS & M.Phil. Assistant Professor, Department of Physiology

patient care.





BAQAI MEDICAL UNIVERSITY BAQAI MEDICAL COLLEGE FIRST PROFESSIONAL M.B.B.S. CVS MODULAR GUIDE 2024- 2025 MBBS CURRICULUM COMMITTEE TEAM

NAME OF FACULTY	DEPARTMENT	DESIGNATION IN COMMITTEE
Prof. Dr. Farrukh Naheed	Gynaecology & Obstetrics	Chairperson
Dr. Maeesa Sajeel	Pathology	Co-Chairperson
Dr. Saadia Akram	Gynaecology & Obstetrics	Secretary
Dr. Tayyaba Kazmi	Anatomy	Member
Dr. Iffat Ara Aziz	Biochemistry	Member
Dr. Saba Abrar	Physiology	Member
Prof. Dr. Nasima Iqbal & Dr. Sarah Azhar	Pathology	Members
Dr. Rafay Ahmed Siddqui	Forensic Medicine	Member
Dr. Faraz Saleem	Pharmacology	Member
Prof. Dr. Nazia Jameel	Community Medicine	Member
Dr. Rehana Babar	ENT	Member
Prof. Dr. Mir Amjad Ali	Ophthalmology	Member
Dr. Mahira Shafi	Psychiatry	Member
Dr. Tahira Saeed	Paediatrics	Member
Dr. Mahwish Rizwan	Radiology	Member
Dr. Sumayyah Liaquat & Dr. Saima Askari	General Medicine	Members
Dr. Sidra Abbas & Dr. Danish Muneeb	General Surgery	Member
Dr. Saadia Akram	Gynaecology & Obstetrics	Member
Ms. Maria Rahim	Research	Member
Prof. Dr. Shaheen Malik	Assessment Cell	Member
Dr. Saeeda Junaid	QEC	Member
Dr. Azra Shaheen	Behavioural Sciences	Member
Dr. Saima Qamar	Medical Education	Member





Dr. Urooj Aamir	Bioethics	Member
Class Representatives from 1 st year, 2 nd year,	Student Feedback	Members
3 rd year, 4 th year and 5 th year MBBS		

CIC SPIRAL-1 1st Year MBBS MODULAR TIME TABLE, STUDY GUIDE and CBL COMMITTEE

NAME OF FACULTY	DEPARTMENT	DESIGNATION IN COMMITTEE
Prof. Dr. Syed Inayat Ali	Anatomy	Head of CIC Spiral-1
Dr. Tayyaba Kazmi	Anatomy	Class In-charge 1 st Year MBBS
Dr. Iffat Aziz	Biochemistry	Coordinator of 1 st Year MBBS Study
		Guide & Time Table Team
Dr. Hina Shaheen	Anatomy	Member
Dr. Muhammad Ali	Physiology	Member
Dr. Hina Masood	Pharmacology	Member
Dr. Rozeena	Pathology	Member
Dr. Rafey Siddiqui	Forensic Medicine	Member
Dr. Ammara	Community Medicine	Member
Dr. Aneeta / Dr. Saima Askari	Medicine	Members
Dr. Danish / Dr.Abdullah	Surgery	Member
Dr. Nikhat Ashraf	Gynaecology & Obstetrics	Member
Dr. Maria Rahim	Research	Member





Dr. Mariam Ibrahim	Department of Medical Education	Member
Dr. Azra Shaheen	Behavioural Sciences	Member
Dr. Danish/ Dr. Abdullah	Orthopeadics	Members
	_	
Dr. Mehwish	Radiology	Member
Dr. Kahkashan Perveen	Biochemistry	Spiral-1 CBL Coordinator
Dr. Shahid Pervez	Anatomy	CBL team member
Dr. Saleemullah Abro	Physiology	CBL team member

INTRODUCTION TO CARDIOVASCULAR (CVS) MODULE GUIDE

Year to be taught: First Professional M.B.B.S. 2024 &2025

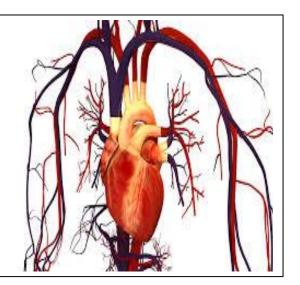
Placement of CVS Module:FOURTH

Duration: 5 weeks

Tentative Date: As per updated timetable

End of Module Assessment End of module

First Professional M.B.B.S. Dr. Muhammad Ali MBBS & M.Phil. Assistant Professor, Department of Physiology



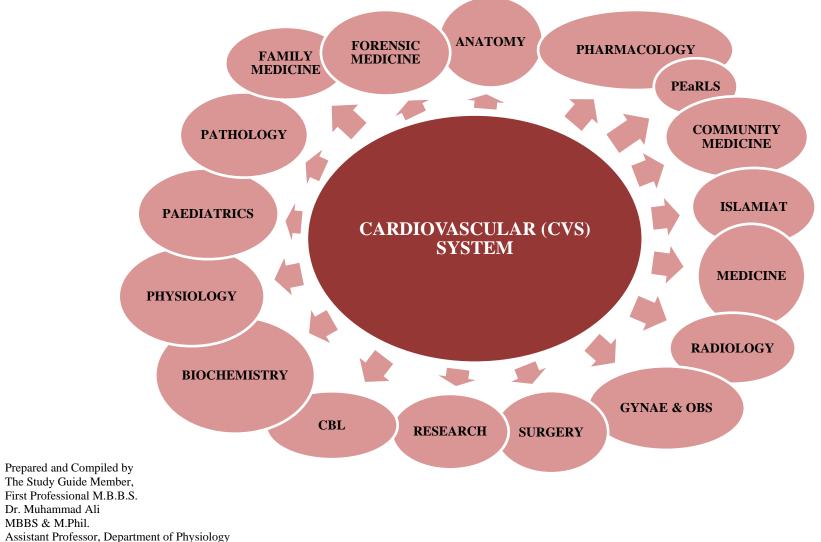




This module is the first step towards producing doctors who have the basic information for decision making. This module provides the basis for Cardiovascular and then rotations of Medicine in later years and help students develop necessary skills in diagnosing and developing management plans for common Cardiovascular related conditions. This module will focus on the normal structure and function of the cardiovascular system and will help students apply this information to solve clinically relevant problems.











BAQAI MEDICAL UNIVERSITY BAQAI MEDICAL COLLEGE FIRST PROFESSIONAL M.B.B.S. CVS MODULAR GUIDE 2024- 2025 INTEGRATED TEACHING

CVS Modular outcomes

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

- 1. Explain the development of heart & congenital anomalies
- 2. Report the chambers of heart, its valves & surface marking of great vessels
- 3. State the internal structure of cardiomyocytes, excitatory conductive tissue of heart & segments of circulatory tree
- 4. Describe arrangement of blood supply of heart & disease associated with it
- 5. Define normal blood pressure, its measurement & regulation, events of cardiac cycle & basic principles of ECG
- 6. Find the types & mechanism of compensation & progression of circulatory shock
- 7. Identify the cardiac enzymes & steps of cholesterol metabolism





8. Discuss the way by which intimal plaque proceed to complete atheromatous occlusion & guidelines of treatment of hypercholesterolemia & hypertension 9. Recall the significance of artificial hypothermia during cardiac surgery 10. Apply skill of basic life support & observation of chest radiograph

INTEGRATED TEACHING

S. No:	TOPICS WITH OBJECTIVES	DEPARTME	DURATIO	FACILI	TEACHING	VENUE
		NT	Ν	TATOR	STRATEGY	
1.	MEDIASTINUM.	ANATOMY	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Aneela		1,
	able to:					Ground floor,
	- Define mediastinum.					Block-A.
	- Describe the division of mediastinum.					
	- Discuss the structures present in the superior					
	and inferior mediastinum.					





	- Describe the applied anatomy of mediastinum.					
2.	STUDY STYLES I At the end of this lecture 1 st year MBBS students will be able to: - - Identify different study approaches. - - Discuss how to improve their study skills	PEARLS	60 minutes	Dr. Talal Bin Taheer	Lecture	Lecture hall – 1, Ground floor, Block-A
3.	DEVELOPMENT OF HEART – I <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> - Explain the formation of cardiac loop	ANATOMY	60 minutes	Dr. Tayyaba	Lecture	Lecture hall – 1, Ground floor, Block-A
4.	DEVELOPMENT OF HEART- II At the end of this lecture 1 st year MBBS students will be able to: - Discuss partioning of primordial heart	ANATOMY	60 minutes	Dr. Tayyaba	Lecture	Lecture hall – 1, Ground floor, Block-A





5	Destanding		(0)	D	T t	Lecture hall –
5.	Pericardium	ANATOMY	60 minutes	Dr.	Lecture	Lecture nall –
	At the end of lecture students of 1 st year MBBS will be			Aneela		Ground floor,
	able to:					Block-A
	- Describe the layers of pericardium.					DIOCK-A
	- Discuss the sympathetic, para-sympathetic					
	- Explain the sinuses formed by the pericardium.					
	- Describe the applied anatomy of pericardium.					
6.	PERICARDIAL DISEASES I	PATHOLOG	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	Y		Nasima		1,
	able to:			Iqbal		Ground floor,
	- Describe Pericarditis			1		Block-A
	-Explain Pericardial Effusion					
7.	HEART – 1	ANATOMY	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Aneela		1,
	able to:					Ground floor,
	- Identify the location and position of heart.					Block-A
	- Describe the structure of heart.					
	- Describe the external features of heart.					
8.	HEART- 2		60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	ANATOMY		Aneela		1,
	able to:					Ground floor,
	- Discuss the internal structure of heart.					Block-A
	- Differentiate between left and right atria and					
	ventricles.					





				-		
	- Describe the applied anatomy of heart.					
9.	SDL	I			I	I I
10.	VALVES & OPENINGS OF THE HEART	ANATOMY	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Aneela	200000	1,
	able to:			7 moora		Ground floor,
	- Describe the structure of atrio-ventricular, aortic and					Block-A
	,					
	pulmonary valves.					
	- Enumerate openings in left and right atria.					
	- Discuss the clinical aspects of valves of heart.					
11.	ARTERIAL SUPPLY OF HEART	ANATOMY	60 minutes	Dr. Hina	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be					1,
	able to:					Ground floor,
	- List the arteries which supply the heart.					Block-A
	- Define origin, course and branches of the					
	coronary arteries.					
	- Discuss the area supplied by left and right					
	coronary arteries.					
	- State the venous drainage of heart.					
	- Describe the applied anatomy of coronary arteries.					





12.	DEVELOPMENT OF ARTERIAL SYSTEM	ANATOMY	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Tayyaba		1,
	able to:					Ground floor,
	- Describe the development of aortic arches & its					Block-A
	derivatives					
	- Explain the developmental defects related with					
	development of arterial system					
13.	INTRODUCTION OF BEHAVIOURAL SCIENCE	BEHAVIOU	60 minutes	Miss.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	RAL		Azra		1,
	able to:	SCIENCE				Ground floor,
	- Define health and behavioural sciences					Block-A
	- Associate the health with behavioural science					
	- Identify an importance of health in behavioural					
	Sciences					
14.	GREAT VESSELS OF HEART- I	ANATOMY	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Aneela		1,
	able to:					Ground floor,
	- Describe in detail the arteries and veins that					Block-A
	enter and leave the heart.					
	- Identify the course and tributaries of superior					
	and inferior vena cava.					
	- Explain the branches of aorta and arch of aorta.					





15.	DEVELOPMENT OF VENOUS SYSTEM	ANATOMY	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Tayyaba		1,
	able to:					Ground floor,
	- Describe the developmental changes in sinus					Block-A
	venosus					
	- Discuss the development of vena cava					
	- Explain the developmental defects related with					
	development of venous system					
16.	GREAT VESSELS OF HEART- II	ANATOMY	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Aneela		1, G 1 G
	able to:					Ground floor, Block-A
	-Describe the branches of pulmonary trunk and					BIOCK-A
	distribution of left and right pulmonary arteries.					
	- Discuss the applied anatomy of great vessels.					
17.	VENOUS SYSTEM-I	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY		Adnan		l,
	able to:			Ahmed		Ground floor,
	- Define vein.					Block-A
	- List main functions of veins.					
	- Categorize the venous pressure & discuss their					
	contributing factors.					
	- Describe the role of veins as a venous pump.					
	- Explain the function of veins as blood reservoir					
18.	VENOUS SYSTEM-II	PHYSIOLO	60 minutes	Dr. M Ali	Lecture	Lecture hall –
	d and Commiled hy	GY				1,





	At the end of this lecture 1 st year MBBS students will be able to: - Define central venous pressure (CVP).					Ground floor, Block-A
	- Draw CVP curve.					
	- Explain the effect of gravity on venous pressure.					
	- Identify the importance of venous valve.					
	- Define varicose veins.					
19.	HISTOLOGY OF HEART	ANATOMY	60 minutes	Prof. Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Inayat		1,
	able to:					Ground floor,
	- Identify the histological features of Cardiac muscles.					Block-A
20.	HISTOLOGY OF VESSELS	ANATOMY	60 minutes	Prof. Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Inayat		l,
	able to:					Ground floor,
	- Describe the histological structure of arteries					Block-A
	and veins.					
	- Differentiate between artery and vein.					
21.	VASCULITIS VARICOSE	PATHOLOG	60 minutes	Dr.	Lecture	Lecture hall –
	VEINS/THROMBOPHLEBITIS	Y		Nasima		l, Creat flaga
	At the end of this lecture 1 st year MBBS students will be			Iqbal		Ground floor, Block-A
	able to:					DIOCK-A
	- Define Vasculitis					
	- List its Infectious & Non-Infectious causes					
	- Define Varicose Veins & Thrombophlebitis					





22.	SOCIAL SYSTEM OF ISLAM:	ISLAMIAT	60 minutes	Miss.	Lecture	Lecture hall –
	BASIC CONCEPTS OF SOCIAL SYSTEM OF ISLAM			Uzma		1,
	At the end of this lecture 1 st year MBBS students will be					Ground floor,
	able to:					Block-A.
	- Describe and explain the basic concepts of social systems of					
	Islam					
23.	HEART AS A PUMP	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY		Adnan		1,
	able to:			Ahmed		Ground floor,
	- Differentiate the action potentials of the skeletal & cardiac					Block-A
	muscles.					
24.	PROPERTIES OF CARDIAC MUSCLES	PHYSIOLO	60 minutes	Dr. M Ali	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY				1,
	able to:					Ground floor,
	- Lists and define the cardiac muscle properties					Block-A
25.	ACTION POTENTIALS OF CARDIAC MUSCLES	PHYSIOLO	60 minutes	Dr. Sobia	Lecture	Lecture hall –
20.	At the end of this lecture 1 st year MBBS students will be	GY	00 minutes	DI. Soola	Lecture	1.
	able to:	U				Ground floor,
	- Enumerate the phases of the action potential of					Block-A
	cardiac muscle					
	- Explain plateau phenomenon in ventricular					
	muscle					
	- Compare plateau of ventricular muscle with					
	atria and SA node					





	- Explain refractory period					
26.	PLATEAU IN CARDIAC MUSCLE	PHYSIOLO	60 minutes	Dr Adnan	SGT	Physio LAB,
	At the end of this SGT 1 st year MBBS students will be	GY		Dr M Ali		Lecture hall
	able to:			Dr Saba		1 & LRC
				Abrar		(Physio:)
	-Define plateau in cardiac muscle					
	-Explain the formation of plateau					
	-Explain the role of plateau in increasing refractory period					
27.	CONDUCTING SYSTEM OF HEART	ANATOMY	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Aneela		1, C 10
	able to:					Ground floor,
	- Define conducting system of heart.					Block-A
	- Identify the location and position of SA node, AV node					
	and AV bundle.					
	- Describe the areas supplied by SA, AV nodes and bundle					
	of HIS.					
	- Describe applied anatomy of conducting system.					
28.	SURGICAL ANATOMY OF HEART	CARDIO	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	THORACIC		Abdullah		1,
	able to:	SURGERY				Ground floor,
	- Explain the surgical anatomy of heart					Block-A
	- Identify the cardiac landmarks on the human body					





29.	DEVELOPMENT OF CONDUCTING SYSTEM OF	ANATOMY	60 minutes	Dr.	Lecture	Lecture hall –
	HEART			Tayyaba		1,
	At the end of this lecture 1 st year MBBS students will be					Ground floor,
	able to:					Block-A
	- Describe the development of conducting system of heart.					
30.	RHYTHMIC EXCITATION OF THE HEART	PHYSIOLO	60 minutes	Dr. M Ali	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY				1,
	able to:					Ground floor,
	- Name the pace make of the heart					Block-A
	- List the conductive system of the heart					
	- Explain the conduction of impulse from SA					
	node to the base of the heart					
	- Define ectopic pacemaker of heart.					
31.	REGULATION OF HEART PUMPING I	PHYSIOLO	60 minutes	Dr. Sobia	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY				1,
	able to:					Ground floor,
	- Define frank starling law					Block-A
	- Descibe bain-bridge reflex					
	- Disscus the parasympathetic effect on heart					
	- Explain the sympathetic effect on heart					
	- Identify the effects of Ca^{2+} , K^+ and temperature					
	on heart					





32.	NORMAL HEART RATE AND ARRHYTHMIAS I	PHYSIOLO	45 minutes	Dr. M Ali	Lecture	Lecture hall –
	 <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> Define normal heart rate, tachycardia and bradycardia. Define arrhythmias. List and summarize types of heart blocks. 	GY				1, Ground floor, Block-A
	 Define atrial & ventricular flutter and fibrillation. Explain re-entry phenomenon- circus movement 					
33.	FETAL CIRCULATION At the end of this lecture 1 st year MBBS students will be able to: - Describe fetal circulation - Explain the developmental defects related with fetal circulation	ANATOMY	60 minutes	Dr. Tayyaba	Lecture	Lecture hall – 1, Ground floor, Block-A
34.	CORONARY CIRCULATION <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> - Recognize the percentage of cardiac output in coronary circulation. - Discuss the cardiac muscle compression causing changes in coronary circulation during systole and diastole.	PHYSIOLO GY	60 minutes	Dr. Adnan	Lecture	Lecture hall – 1, Ground floor, Block-A





	- Explain the autoregulation of coronary circulation.					
35.	CYANOTIC HEART DISEASES- IAt the end of this lecture 1st year MBBS students will beable to:- Define cyanotic heart defects- List the incidence of cyanotic disease- Explain different types of cyanotic congenital defects	PAEDS	60 minutes	Dr. Aneela	Lecture	Lecture hall – 1, Ground floor, Block-A
36.	CYANOTIC HEART DISEASES- II <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> - Describe the etiology, clinical manifestation, diagnosis and management of cyanotic congenital heart defects.	PAEDS	60 minutes	Dr. Aneela	Lecture	Lecture hall – 1, Ground floor, Block-A
37.	VALVULAR HEART DISEASES <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> - Define Rheumatic Heart Disease - Describe its pathophysiology - Define Infective Endocarditis - List its causes	PATHOLOG Y	60 minutes	Dr. Nasima Iqbal	Lecture	Lecture hall – 1, Ground floor, Block-A





38.	CARDIAC CYCLE – I	PHYSIOLO	60 minutes	Dr. M Ali	Lecture	Lecture hall –
	 <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> Define cardiac cycle, systole and diastole. Calculate the duration of cardiac cycle. List & define the phases & events of cardiac cycle. 	GY				1, Ground floor, Block-A
39.	 CARDIAC CYCLE – II <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> List & define the volume changes during cardiac cycle. Relate the volume changes with the phases of cardiac cycle. Explain the ventricular pressure changes during cardiac cycle. Define stroke volume output, end-systolic volume, end-diastolic volume and ejection fraction 	PHYSIOLO GY	60 minutes	Dr. Sobia	Lecture	Lecture hall – 1, Ground floor, Block-A
40.	CARDIAC CYCLE-III <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> - Correlate the events of cardiac cycle with the ECG.	PHYSIOLO GY	60 minutes	Dr. Sobia	Lecture	Lecture hall – 1, Ground floor, Block-A





	- Correlate the events of cardiac cycle with the					
	heart sounds.					
	- Name the atrial pressure waves.					
	- Explain the aortic pressure curve.					
	- Draw and explain the graphical analysis of					
	ventricular pumping-work output of the heart.					
	- Define pre-load, after-load and cardiac					
	efficiency.					
41.	CARDIAC CYCLE	PHYSIOLO	60 minutes	Dr Adnan	SGT	Physio Lab,
	At the end of this SGT 1 st year MBBS students will be	GY		Dr M Ali		Lecture hall 1
	able to:			& Dr		& LRC
	-Draw the ventricular pressure curve during cardiac cycle			Saba		(Physio)
	-Draw ventricular volume curve			Abrar		
	-Draw atrial pressure curve during cardiac cycle					
42.	VALVULAR HEART DISEASE	MEDICINE	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Masooda		1,
	able to:					Ground floor,
	- Discuss pathogenesis of the damaged valves					Block-A
	- Interpret various clinical features of diseased valves					
	- Explain investigation required for the diagnosis of valvular					
	heart disease					
	- Compute the treatment options available to treat the					
	damaged valves					





43.	ELECTROCARDIOGRAM (ECG)-I	PHYSIOLO	60 minutes	Dr. Saba	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY		Abrar		1,
	able to:					Ground floor,
	- Define electrocardiogram "ECG"					Block-A
	- List ECG waves					
	- Define intervals and segments					
	- Explain the development of depolarization &					
	repolarization waves.					
	- Explain how ECG can be helpful in the					
	diagnosis of various cardiovascular disorders.					
44.	VECTORIAL ANALYSIS I	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY		Adnan		1,
	able to:			Ahmed		Ground floor,
	- Define "vector".					Block-A
	- Explain the concept of vector direction in ECG.					
	- Describe the vectorial analysis in terms of potential					
	determination.					
	- Relate the ventricular potential changes with the					
	development of "QRS complex" & "T" waves					
	on ECG.					
	- Relate the atrial potential changes with the					
	development of Atrial "P" & "T" waves on ECG.					
					I	





45.	ECG – IICALCULATION OF MEAN ELECTRICAL	PHYSIOLO	60 minutes	Prof.	Lecture	Lecture hall –
	AXIS OF QRS I	GY		Qamer		1,
	At the end of this lecture 1 st year MBBS students will be			Aziz		Ground floor,
	able to:					Block-A
	- Identify the right axis deviation in the ECG.					
	- Identify the left axis deviation in the ECG.					
	- Name the conditions that cause axis deviation.					
	- Identify axis deviation in bundle branch block.					
	- Name the condition that increases/decreases					
	voltages in QRS complexes.					
	- Define current of injury.					
	- Identify J-point.					
	- Identify T-wave inversion in coronary ischemia.					
	- Recognize acute myocardial infarction and					
	differentiate it from old infarction.					
46.	ECG – AXIS CALCULATION	PHYSIOLO	45 minutes	Dr	SGT	Physio lab,
	At the end of this SGT 1st year MBBS students will be	GY		Adnan,		Lecture hall 1
	<u>able to:</u>			Dr M Ali		& LRC
	-Calculate electrical axis in the given ECG			& Dr		(Physio:)
	-Identify J point in the given ECG			Saba		
				Abrar		





47.	ELECTROCARDIOGRAPHY	PHYSIOLO	60 minutes	Dr.	Activity	Lecture hall –
	At the end of this activity 1 st year MBBS students will be	GY		Saleemul		1,
	able to:			lah		Ground floor,
	- Identify normal waves and intervals of heart					Block-A
	- Interpret heart rate of any given ECG					
	- Compute the rhythm of the heart as normal or					
	Abnormal					
48.	ELECTROCARDIOGRAPHY	MEDICINE	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Masooda		1,
	able to:					Ground floor,
	- Identify normal waves and intervals of heart					Block-A
	- Interpret heart rate of any given ECG					
	- Compute the rhythm of the heart as normal or					
	Abnormal					
49.	CARDIAC ENZYMES	BIOCHEMI	60 minutes	Dr. Iffat	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	STRY				1,
	able to:					Ground floor,
	- Identify the different enzymes useful in					Block-A
	diagnosis of acute myocardial infarction					
	- Describe the interpretations of the pattern of					
	enzymes in Myocardial Infarction.					
50.	ELEMENTS OF FAMILY	ISLAMIAT	60 minutes	Miss.	Lecture	Lecture hall –
	At the end of this lecture 1st year MBBS students will be			Uzma		1,
	able to:					Ground floor,
	- Describe and explain the elements of family.					Block-A.





				U		
51.	CHOLESTEROL CHEMISTRY I	BIOCHEMI	60 minutes	Dr. Iffat	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	STRY				1,
	able to:					Ground floor,
	- Describe the structure of cholesterol.					Block-A
	- State the normal range of cholesterol in blood					
	- Discuss the biomedical importance of					
	Cholesterol.					
52.	CARDIAC OUTPUT I	PHYSIOLO	60 minutes	Dr. Saba	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY				1,
	able to:					Ground floor,
	- Define cardiac output & the cardiac index with their					Block-A
	values.					
	- Define venous return.					
	- Explain the inter-relationship between the					
	venous return andcardiac output.					
	- Name the methods of measuring cardiac output.					
53.	CHOLESTEROL METABOLISM	BIOCHEMI	60 minutes	Dr. Iffat	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	STRY				1,
	able to:					Ground floor,
	- Discuss the synthesis of cholesterol					Block-A
	- List the tissues in which cholesterol biosynthesis takes					
	place					
	- Discuss the importance of rate limiting step in					
	cholesterol synthesis & describe its regulation					





54.	MYOCARDIAL INFARCTION	PATHOLOG	60 minutes	Dr. Sidra	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	Y		Izhar		1,
	able to:					Ground floor,
	- Define Myocardial Infarction					Block-A
	- List its complications					
	- List its investigations					
55.		PHYSIOLO	120	Dr. M Ali	Practical	Phsyiology
	BEAT (PRACTICAL)	GY	minutes			laboratory,
	At the end of this practical 1 st year MBBS students will					First floor, Block-A
	be able to:					BIOCK-A
	- Define heart sound.					
	- Auscultate different areas of heart sounds					
	- Locate & measure the apex beat					
	- Identify cardiac murmurs					
56.	ECG MACHINE & LEADS (PRACTICAL)	PHYSIOLO	120	Dr. M Ali	Practical	Phsyiology
	At the end of this practical 1 st year MBBS students will	GY	minutes			laboratory,
	be able to:					First floor, Block-A
	- List the requirement for recording ECG.					DIOCK-A
	- Mention the names of leads and electrodes with					
	its placement.					
	- Describe the protocol for performing ECG.					
	- Explain the voltage & time calibration on ECG					
	paper.					
	- List ECG leads & compares deflection with the					
	location of leads.					





	- Calculate the heart rate and P-R interval by using electrocardiogram					
57.	TEST FOR CHOLESTEROL BY FERRIC CHLORIDE ACETIC ACID REAGENT (PRACTICAL) At the end of this practical 1 st year MBBS students will be able to: - Detect the presence of cholesterol in a given sample by ferric chloride reagent - Describe the principle of the reaction - Record the observations	BIOCHEMI STRY	120 minutes	Dr. Farhan / Miss. Nazish	Practical	Biochemistry laboratory, First floor, Block-A
58.	CARDIAC MUSCLESAt the end of this practical 1st year MBBS students willbe able to:- Explain the structure of cardiac muscle- Identify the slide of cardiac muscles	HISTOLOG Y	120 minutes	Dr. Aneela	Practical	Histology laboratory, First floor, Block-A





					1	
59.	ISCHEMIC HEART DISEASE	MEDICINE	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Masooda		1,
	able to:					Ground floor,
	- Memorize the various clinical presentations of					Block-A
	ischemic heart disease including angina and					
	myocardial infarction					
	- Summarize the investigations required to					
	diagnose the disease					
	- Identify pharmacological as well as non-					
	pharmacological options for treatment of disease					
60.	X RAY CHEST IN HEART FAILURE	RADIOLOG	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	Y		Farheen		1,
	able to:					Ground floor,
	- Define interpretation of cardiomegaly from x ray					Block-A
	chest PA view					
	- Describe signs of infiltration & consolidation					
	Explain role of x ray in differential diagnosis of CHF					
61.	FACTORS REGULATING CARDIAC OUTPUT	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY		Adnan		1,
	able to:			Ahmed		Ground floor,
	- Associate the role of nervous system in					Block-A
	regulation of C.O.					
	- Explain the role of preload on C.O.					
	- Explain the role of cardiac contractility on C.O.					
	- Explain the role of after-load on C.O.					
Prepare	d and Compiled by					





62.	ISCHEMIC HEART DISEASE	PATHOLOG	60 minutes	Dr.	Lecture	Lecture hall –	
	At the end of this lecture 1 st year MBBS students will be	Y		Rozina		1,	
	<u>able to:</u>			Khan		Ground floor,	
	- Define Ischemic Heart Diseases					Block-A	
	- List its Types						
63.	MYOCARDIAL INFARCTION	PHYSIOLO	60 minutes	Dr	SGT	Physio lab,	
	At the end of this SGT 1st year MBBS students will be	GY		Adnan,		Lecture hall1	
	<u>able to:</u>			Dr M Ali		& Physio LRC	
	-Define infarction			& Dr			
	-Differentiate infarction from ischemia			Saba			
	-Identify ECG changes in left sided block			Abrar			
	- Identify ECG changes in right sided block						
64.	STUDY STYLES	PEaRLS	60 minutes	Dr.	Lecture	Lecture hall –	
	At the end of this lecture 1 st year MBBS students will be			Saima		1,	
	able to:			Qamar		Ground floor,	
	- Identify different learning styles of learners.					Block-A	
	- Discuss importance of different learning styles.						
65.	CHOLESTEROL DEGRADATION	BIOCHEMI	60 minutes	Dr. Iffat	Lecture	Lecture hall –	
	At the end of this lecture 1 st year MBBS students will be	STRY				1,	
	able to:					Ground floor,	
	- Explain the metabolic fate of cholesterol in the					Block-A	
	body.						
	- Discuss the formation and functions of bile						
	acids and bile salts						





	CVB MODULAR GUIDE 2024- 2023							
66.	HEART SOUNDS I	PHYSIOLO	60 minutes	Dr. M Ali	Lecture	Lecture hall –		
	At the end of this lecture 1 st year MBBS students will be able to: - Define heart sounds.	GY				1, Ground floor, Block-A		
	Relate the heart sounds with movement of valves & with cardiac events.Define "murmurs", list the abnormalities that							
	produce murmur.							
67.	SDL	•		•				
68.	 SODIUM METABOLISM At the end of this lecture 1st year MBBS students will be able to: Describe the metabolism of sodium State the normal blood levels of sodium List the functions of it and the clinical conditions associated with its excess and deficiencies. 	BIOCHEMI STRY	60 minutes	Dr. Farhan Sabir	Lecture	Lecture hall – 1, Ground floor, Block-A		
69.	POTASSIUM METABOLISMAt the end of this lecture 1st year MBBS students will beable to:- Describe the metabolism of potassium- State the normal blood levels of potassium- List the functions of it and the clinical conditionsassociated with its excess and deficiencies.	BIOCHEMI STRY	60 minutes	Dr. Farhan Sabir	Lecture	Lecture hall – 1, Ground floor, Block-A		





70.	CIRCULATORY SYSTEM I	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY		Adnan		1,
	able to:			Ahmed		Ground floor,
	- Define blood circulation.					Block-A
	- List the importance / functions of circulatory					
	system.					
	- List & define the functional parts / components					
	of circulatory system.					
	- List the types of circulation (systemic and					
	pulmonary).					
	- Enumerate the volume of blood in different					
	parts of circulation.					
71.	CIRCULATORY SYSTEM II	PHYSIOLO	60 minutes	Dr. M Ali	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY				1,
	<u>able to:</u>					Ground floor,
	- Recognize the cross-sectional areas and					Block-A
	velocities of blood flow					
	- Explain the pressure in various portions of					
	circulation					
	- Identify the functions of capillaries					
	- List & define the basic principles of circulation					
72.	LIPOPROTEIN METABOLISM-1 (LIPID	BIOCHEMI	60 minutes	Dr. Iffat	Lecture	Lecture hall –
	METABOLISM)	STRY				1,
	At the end of this lecture 1 st year MBBS students will be					Ground floor,
	able to:					Block-A





	- Define lipoproteins					
	- Explain the structure of a lipoprotein complex					
	- List the different types of lipoproteins, their sources,					
	composition and functions.					
73.	CLASSIFICATION OF VARIABLES	RESEARCH	60 minutes	Miss.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be			Maria		1,
	able to:					Ground floor,
	- Define the types of variables					Block-A
	- Explain the differences between various types of					
	Variables					
74.	LIPOPROTEIN METABOLISM-2 (LIPID	BIOCHEMI	60 minutes	Dr. Iffat	Lecture	Lecture hall –
	METABOLISM)	STRY				1,
	At the end of this lecture 1 st year MBBS students will be					Ground floor,
	able to:					Block-A
	- Describe the synthesis of chylomicrons and					
	VLDL in the intestinal cells and the liver cells					
	respectively.					
	- Describe the mode of action of lipoprotein					
	lipase on chylomicrons and VLDL					
	- Describe the production of LDL from VLDL					
75.	PREVENTIVE CARDIOLOGY	COMMUNI	60 minutes	Prof. Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	TY		Nazia		1,
	able to:	MEDICINE		Jameel		Ground floor,
	- Describe the epidemiology of cardiovascular					Block-A
	diseases					





	 List the risk factors of cardiovascular diseases Discuss the preventive approaches for 					
	cardiovascular diseases					
76.	CARDIO MYOPATHIES <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> -Define and classify cardio myopathies - Describe each type with respect to its etiopathogenesis, morphology and clinical manifestations - Describe myocarditis	PATHOLOG Y	60 minutes	Dr. Rozina Khan	Lecture	Lecture hall 1, Ground floor Block-A
77.	LIPOPROTEIN METABOLISM-3 (LIPID METABOLISM) At the end of this lecture 1 st year MBBS students will be able to: - Identify the metabolic fate of LDL - Discuss the synthesis and metabolism of HDL - Explain the scavenging action of HDL - Describe the process of plaque formation in relation to formation of oxidized LDL	BIOCHEMI STRY	60 minutes	Dr. Iffat	Lecture	Lecture hall 1, Ground floor Block-A
78.	OVERVIEW OF PHARMACOLOGY OF HYPERLIPIDEMIA <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> - Recall the physiology of hyperlipidemia.	PHARMAC OLOGY	60 minutes	Dr. Sehrish / Dr. Hina Masood	Lecture	Lecture hall 1, Ground floor Block-A





	 Discuss the pathophysiology of hyperlipidemia. Explain the mechanistic pharmacology of hyperlipidemia. 					
79.	ATHEROSCHLEROSIS <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> - Define Atheroschlerosis - Describe its Pathophysiology - List its Complications	PATHOLOG Y	60 minutes	Dr. Nasima Iqbal	Lecture	Lecture hall – 1, Ground floor, Block-A
80.	 ETHICAL VALUES OF ISLAMIC SOCIETY <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> Describe and explain the ethical values of Islamic Society 	ISLAMIAT	60 minutes	Miss. Uzma	Lecture	Lecture hall – 1, Ground floor, Block-A
81.	SURGICAL ANATOMY OF HEART AND CORONARY ARTERY At the end of this lecture 1 st year MBBS students will be able to: - Discuss the role of surgery in cardiac diseases - Describe the role of investigation in planning Surgery - Find the role of surgery in valvular and congenital heart diseases	CARDIO THORACIC SURGERY	60 minutes	Dr. Abdullah	Lecture	Lecture hall – 1, Ground floor, Block-A





82.	BLOOD FLOW	PHYSIOLO	45 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY		Muhamm		1,
	able to:			ad Ali		Ground floor,
	- Identify determinants of blood flow					Block-A
	- Categorize the types of blood flow					
	- State ohm's law in determining the blood flow					
	- List the methods for recording the blood flow					
	- Explain Reynold's phenomenon					
83.	UNDERSTANDING BEHAVIOUR	BEHAVIOR	60 minutes	Miss.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	AL		Azra		1,
	able to:	SCIENCES				Ground floor,
	- Define behaviour					Block-A
	- Explain the cause of behaviour difference in					
	same situations					
	- Define attention and concentration					
	- Name the factors affecting attention and					
	concentration					
	- Explain the management to improve the					
	Concentration					
84.	ARTERIAL PULSE	PHYSIOLO	120	Dr. M Ali	Practical	Physiology
	At the end of this practical 1 st year MBBS students will	GY	minutes			laboratory,
	be able to:					First floor,
	- Identify Arterial pulse					Block-A
	- Explain protocol for measuring arteial pulse					
85.	SDL]			





86.	HISTOLOGY OF ARTERY	HISTOLOG	120	Dr.	Practical	Histology
	At the end of this practical 1 st year MBBS students will	Y	minutes	Aneela		laboratory,
	be able to:					First floor,
	- Explain the structure of artery					Block-A
	-Identify the slide of artery					
87.	INTRODUCTION TO FLUID AND ELECTROLYTE	BIOCHEMI	60 minutes	Dr.	Lecture	Lecture hall –
	BALANCE I	STRY		Kehkasha		1,
	At the end of this lecture 1 st year MBBS students will be			n		Ground floor,
	able to:					Block-A
	- Identify the different body compartments					
	- Define "transcellular fluid"					
	- List the types of solutes present in the body					
	Fluids					
	- Discuss electrolyte composition of Extracellular					
	fluid and Intracellular fluid					
	- Identify the chief cation in Extracellular fluid					
	and Intracellular fluid					
88.	PRESSURE IN CIRCULATORY SYSTEM I	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY		Adnan		1,
	able to:			Ahmed		Ground floor,
	- Define blood pressure.					Block-A
	- Explain the Korotokoff sound.					
	- Explain the clinical importance of blood					
	pressure.					
	- Explain the effects of pressures on vascular					
•	d and Compiled by					
	idy Guide Member,					





	resistance.					
	- Define law of laplace.					
	- Define vascular shear stress					
89.	 BETWEEN COMPARTMENTS At the end of this lecture 1st year MBBS students will be able to: Recognize the properties of vessel wall and cell membrane with regards to water and electrolyte movements Describe the mechanism of movement of electrolytes mainly of sodium and potassium. 	BIOCHEMI STRY	60 minutes	Dr. Kehkasha n	Lecture	Lecture hall – 1, Ground floor, Block-A
	- Describe starling hypothesis			-	-	×
90.	RESISTANCE At the end of this lecture 1 st year MBBS students will be able to: - Cite the units of resistance. - Define resistance. - Recognize the conductance of blood in relation to resistance. - State Poisuillie's law.	PHYSIOLO GY	60 minutes	Dr. Muhamm ad Ali	Lecture	Lecture hall – 1, Ground floor, Block-A
91.				T		1
92.	RESISTANCE AND BLOOD FLOW I At the end of this lecture 1 st year MBBS students will be	PHYSIOLO GY	60 minutes	Dr. M Ali	Lecture	Lecture hall – 1,





	- Explain the importance of fourth power law in					Ground floor
	determining arteriolar resistance.					Block-A
	- Classify flow in blood vessels					DISCHT
	- Classify resistance of blood flow in series and					
	parallel circuits.					
	- Identify the importance of blood hematocrit and					
	viscosity on vascular resistance and blood flow.					
93.	VASCULAR COMPLIANCE AND CONDUCTANCE	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture hall
<i>)</i>	At the end of this lecture 1 st year MBBS students will be	GY	oo minutes	Fatima	Lecture	1,
	able to:	U		1 utiliu		Ground floo
	- Define vascular distensibility.					Block-A
	- Define vascular compliance.					
	- Explain the effect of autonomic nerves on					
	volume-pressure relationship.					
	- Explain delayed compliance in vessels.					
	- Explain arterial pulsations.					
94.	SDL			1		
95.	MICROCIRCULATION	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture hall
	At the end of this lecture 1 st year MBBS students will be	GY		Adnan		1,
	able to:			Ahmed		Ground floo
	- Define Microcirculation along with its function					Block-A
	- List the Starling forces causing fluid exchange					
	across the capillary					
	- Explain the net filtration pressure with the help					
	of starling forces					
-	d and Compiled by		•	•		•
The Stu	ıdy Guide Member,					





	- Define interstitial fluid					
96.	LYMPHATIC SYSTEM	PHYSIOLO	60 minutes	Prof. Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	GY		Qamer		1,
	able to:			Aziz		Ground floor,
	- List the function of lymphatic system.					Block-A
	- Describe Formation of lymph.					
	- List the composition of lymph.					
	- Explain the importance of lymphatic pump.					
	- Define lymphatic system and lymph flow.					
	- Explain the importance of lymphatic system in					
	controlling interstitial fluid.					
97.	NORMAL WATER AND ELECTROLYTE BALANCE	BIOCHEMI	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1 st year MBBS students will be	STRY		Kehkasha		1,
	able to:			n		Ground floor,
	- List the various sources of water intake					Block-A
	- Define "metabolic water"					
	- Describe the processes of output of water					
	- Define "obligatory losses"					
	- Differentiate between "insensible and "sensible					
	perspiration"					
	- Define "minimal excretory volume".					
	- Discuss the factors determining minimum excretory					
	volume.					
	- Define "internal circulation of salts" by GIT and					
	Kidneys					
Prepare	ed and Compiled by					





98.	STUDY STYLES II	PEARLS	60 minutes	Dr.	Lecture	Lecture hall –
	At the end of this lecture 1st year MBBS students will be			Saima		1,
	able to:			Qamar		Ground floor,
	- Develop a working plan for studying					Block-A
	- Compare individual and group learning benefits.					
99.	CARDIOVASCULAR PHYSIOLOGY OF	GYNEA	60 minutes	Dr.	Lecture	Lecture hall –
	PREGNANCY			Nighat		1,
	At the end of this lecture 1st year MBBS students will be					Ground floor,
	able to:					Block-A
	- Explain the reason of increase heart rate during					
	normal pregnancy					
	- Describe the changes in plasma volume and red					
	cell mass					
	- Appreciate the changes in cardiac output					
	throughout pregnancy and labour					
100.		BIOCHEMI	60 minutes	Dr.	Lecture	Lecture hall –
	ELECTROLYTE BALANCE	STRY		Kehkasha		1,
	At the end of this lecture 1 st year MBBS students will be			n		Ground floor,
	able to:					Block-A
	- List the regulatory mechanisms that operate to					
	maintain homeostasis					
	- Describe the involvement of thirst stimuli.					
	- Identify the hormones that maintain the level of					
	water and sodium.					
	- Explain the role of kinins and atrial natriuretic					
	d and Compiled by					
	idy Guide Member, ofessional M.B.B.S.					

Dr. Muhammad Ali MBBS & M.Phil. Assistant Professor, Department of Physiology





BAQAI MEDICAL UNIVERSITY BAQAI MEDICAL COLLEGE FIRST PROFESSIONAL M.B.B.S. **CVS MODULAR GUIDE 2024-2025**

peptide in water and electrolyte balance. 101. SDL				I	
	PHYSIOLO GY	90 minutes	Dr. Adnan	Lecture hall – Ground floor,	·
103. LOCAL CONTROL OF BLOOD FLOW-I	PHYSIOLO GY	60 minutes	Dr. Muhamm ad Ali	Lecture	Lecture hall – 1, Ground floor, Block-A
	PHYSIOLO GY	60 minutes	Dr. Muhamm ad Ali	Lecture	Lecture hall – 1, Ground floor, Block-A

First Professional M.B.B.S. Dr. Muhammad Ali MBBS & M.Phil. Assistant Professor, Department of Physiology





	control of blood flow					
105.	CARDIAC POISONING 1	FORENSIC	45 minutes	Dr. Rafay	Lecture	Lecture
	At the end of this lecture 1 st year MBBS students will be	MEDICINE				hall -1 ,
	able to:					Ground
	- List the Uses of Digitalis, Oleander, Aconite,					floor,
	Nicotine, Quinine & Adrenaline.					Block-A
	- Diagnose the Acute Signs & Symptoms of					
	Poisoning by all above.					
	- Diagnose the Chronic Signs & Symptoms of					
	Nicotine (Tobacco) Poisoning.					
	- List the Treatment options for Acute Poisoning					
	by all above.					
106.	ACUTE ARTERIAL BLOOD PRESSURE (ABP)	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture
	REGULATION	GY		Muhamm		hall -1 ,
	At the end of this lecture 1 st year MBBS students will be			ad Ali		Ground
	<u>able to:</u>					floor,
	- Define arterial blood pressure.					Block-A
	- Define pulse pressure and mean arterial					
	pressure.					
	- Calculate mean arterial pressure.					
	- List the short term (Acute) regulators of ABP.					
	- Identify the role of autonomic nervous system					
	(ANS) in acute regulation of ABP.					
	- Explain the role of vasomotor center in control					
	of ABP.					





- Explain baroreceptor reflex in acute regulation					
of ABP.					
- Explain the resetting phenomenon for					
baroreceptors.					
107. ACYANOTIC HEART DISEASE I	PAEDS	45 minutes	Dr.	Lecture	Lecture
At the end of this lecture 1 st year MBBS students will be			Areeba		hall – 1,
able to:					Ground
- Classify congenital heart disease.					floor, Block-A
- Discuss the pathophysiological changes in					DIOCK-A
circulation that occurs after birth.					
- Compare innocent murmur vs pathological					
murmur.					
108. ACYANOTIC HEART DISEASE II	PAEDS	45 minutes	Dr.	Lecture	Lecture
At the end of this lecture 1 st year MBBS students will be			Areeba		hall -1 ,
<u>able to:</u>					Ground
- Identify appropriate investigations.					floor, Block-A
- Explain management options.					BIOCK-A
- List indications for infective endocarditis					
prophylaxis.					
109. OTHER REGULATORS OF ACUTE ARTERIAL	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture
BLOOD PRESSURE (ABP)-I	GY		Muhamm		hall -1 ,
At the end of this lecture 1 st year MBBS students will be			ad Ali		Ground
able to:					floor,
- Explain chemoreceptor reflex.					Block-A
- Explain the atrial and pulmonary artery reflexes					
Prepared and Compiled by					
The Study Guide Member, First Professional M.B.B.S.					
Dr. Muhammad Ali					

MBBS & M.Phil.

Assistant Professor, Department of Physiology





				= -		
	in acute ABP.					
	- Explain the volume reflex.					
	- Identify the role of atrial natriuretic peptide					
	(ANP) in volume reflex.					
	- Explain bain-bridge reflex.					
110.	CHRONIC CONGESTIVE HEART FAILURE	MEDICINE	45 minutes	Dr.	Lecture	Lecture
	At the end of this lecture 1st year MBBS students will be			Masooda		hall -1 ,
	able to:					Ground
	- Recall etiology and pathogenesis of congestive					floor, Block-A
	heart failure					BIOCK-A
	- Recite clinical presentations of the disease					
	- Discuss the investigations requited to diagnose					
	the disease					
	- Describe treatment options available for the					
	Disease					
111.		PHYSIOLO	60 minutes	Dr.	Lecture	Lecture
	BLOOD PRESSURE (ABP)-II	GY		Adnan		hall -1 ,
	At the end of this lecture 1 st year MBBS students will be			Ahmed		Ground
	able to:					floor, Block-A
	- Explain CNS-ischemic response and its					DIOCK-A
	importance as a last ditch response during					
	shock.					
	- Define cushing reaction.					
112.	OVERVIEW OF PHARMACOLOGY OF	PHARMAL	45 minutes	Dr.	Lecture	Lecture
	HYPERTENSION	OGY		Sehrish /		hall -1 ,
Prepare	d and Compiled by					





	At the end of this lecture 1st year MBBS students will be			Dr. Hina		Ground
	<u>able to:</u>			Masood		floor,
	- Recall the physiology of hypertension.					Block-A
	- Discuss the pathophysiology of hypertension.					
	- Explain the mechanistic pharmacology of					
	hypertension.					
113.	INTERMEDIATE REGULATORS OF ACUTE	PHYSIOLO	45 minutes	Dr.	Lecture	Lecture
	BLOOD PRESSURE (ABP)	GY		Muhamm		hall -1 ,
	At the end of this lecture 1 st year MBBS students will be			ad Ali		Ground
	able to:					floor,
	- List the Intermediate regulators of Acute blood					Block-A
	pressure (ABP)					
	- Explain stress relaxation					
	- Explain capillary fluid shift mechanism					
	- Explain the integrated response according to					
	time.					
114.	CARDIOVASCULAR EXERCISE – PRINCIPLES &	COMMUNI	60 minutes	Dr.	Lecture	Lecture
	GUIDELINES	TY		Ammara		hall -1 ,
	At the end of this lecture 1 st year MBBS students will be	MEDICINE		Altaf		Ground
	able to:					floor,
	- Discuss how to design cardiovascular program					Block-A
	and what kind of exercises should be included in					
	it.					
	- Explain how to monitor your heart rate during					
	cardiovascular exercises.					
Dropore	d and Compiled hy					





115.	CIRCULATORY SHOCK (CS) I	PHYSIOLO	60 minutes	Dr.	Lecture	Lecture
	At the end of this lecture 1 st year MBBS students will be	GY		Muhamm		hall - 1,
	able to:			ad Ali		Ground
	- Define circulatory shock.					floor,
	- List the stages of circulatory shock.					Block-A
	- Explain how non-progressive shock changes					
	into progressive one					
	-Describe other pathophysiological aspects of CS					
116.	CIRCULATORY SHOCK (C.S) II	PHYSIOLO	45 minutes	Dr. Saba	Lecture	Lecture
	At the end of this lecture 1 st year MBBS students will be	GY		Abrar		hall - 1,
	<u>able to:</u>					Ground
	- Name the types of CS					floor,
	- Explain hypovolumic shock.					Block-A
	- Explain septic shock.					
	- Explain anaphylactic shock					
	- Explain neruogenic shock					
	- Explain cardiogenic shock.					
117.	SHOCK	PHYSIOLO	60 minutes	Dr	SGT	Physio lab,
	At the end of this SGT 1st year MBBS students will be	GY		Adnan,		Lecture
	able to:			Dr M Ali		hall 1 &
	-Differentiate hypovolemic shock with cardiac shock			& Dr		LRC
	-List the different types of hypovolemic shock with			Saba		(Physio:)
	examples			leeza		
	-List the causes of cardiogenic shock					
Prepare	d and Compiled by					



.

...

0 1

.



BAQAI MEDICAL UNIVERSITY BAQAI MEDICAL COLLEGE FIRST PROFESSIONAL M.B.B.S. CVS MODULAR GUIDE 2024- 2025

	-describe compensation of shock					
118	SDL					
119	HYPERTENSION At the end of this lecture 1 st year MBBS students will be able to: - - Compute the etiology and pathogenesis of hypertension - Describe primary and secondary hypertension - Identifysecondary causes of hypertension - Classify antihypertensive drugs and their use in hypertensive patients	MEDICINE	60 minutes	Dr. Masooda	Lecture	Lecture hall – 1, Ground floor, Block-A
120	HYPERTENSION At the end of this SGT 1 st year MBBS students will be able to: -Define hypertension -List the causes of hypertension -List the different types of hypertension -Summarize treatment options in hypertension	PHYSIOLO GY	60 minutes	Dr Adnan, Dr M Ali & Dr Saba Abrar	SGT	Physio lab, Lecture hall 1 & Physio LRC
	 LONG TERM CONTROL OF ARTERIAL BLOOD PRESSURE (ABP) <u>At the end of this lecture 1st year MBBS students will be</u> <u>able to:</u> Define renin-angiotensin aldosterone system. Draw a flow diagram showing renin-angiotensin aldosterone system. 	PHYSIOLO GY	45 minutes	Prof. Dr. Qamer Aziz	Lecture	Lecture hall – 1, Ground floor, Block-A





				C		
	- Define juxta glomerular (JG) apparatus.					
	- Explain the role of rennin in renin-angiotensin					
	aldosterone system.					
	- Explain the mechanism of long term regulation					
	of ABP.					
122.	BLOOD PRESSURE RECORDING (PRACTICAL)	PHYSIOLO	120	Dr. M Ali	Practical	Physiology
	At the end of this practical 1 st year MBBS students will	GY	minutes			laboratory,
	be able to:					First floor,
	- List the requirements for recording blood					Block-A
	pressure.					
	- Describe the methods to perform blood					
	pressure.					
	- Predict the normal range of blood pressure.					
	- Describe the methods to perform blood					
	pressure.					
	- Identify the precautions taken while performing					
	blood pressure.					
123.	JUGULAR VENOUS PRESSURE(JVP)	PHYSIOLO	120	Dr. M Ali	Practical	Physiology
	At the end of this practical 1 st year MBBS students will	GY	minutes			laboratory,
	be able to:					First floor,
	- Demonstrate the proper position of subject					Block-A
	- Examine the three ascending and descending					
	waves of raised JVP					
	- Memorize the precautions while examining the					
	subject					
	d and Commiled by	•	•	•	•	·





	-List the clinical causes of raised JVP					
124.	SDL					
125.	HISTOLOGY OF VEIN	HISTOLOG	120	Dr.	Practical	Histology
	At the end of this practical 1 st year MBBS students will	Y	minutes	Aneela		laboratory,
	be able to:					First floor,
	-Explain the structure of vein					Block-A
	- Identify the slide of vein					
126.	SDL					
127.	HEART MODEL	ANATOMY	60 minutes	Dr.	Activity	Lecture
	At the end of this activity 1st year MBBS students will be			Aneela		hall -1 ,
	able to:					Ground
	- Identify the various features of heart					floor,
130	CDI					Block-A
	SDL	FODENCIC			TT (Testerne
129.		FORENSIC	60 minutes	Dr. Jan e	Lecture	Lecture
	At the end of this lecture 1 st year MBBS students will be	MEDICINE		Alam		hall – 1, Ground
	able to:					floor,
	- List the Treatment options for Chronic Nicotine					Block-A
	Poisoning.					DIOCK
	- Identify Fatal Doses & amp; Fatal Periods of					
	them.					
	- Describe Postmortem Appearances of Poisoning					
	by them					
	- Give medicolegal (ML) importance					





130.	RIGHTS OF PARENTS AND ELDERS At the end of this lecture 1st year MBBS students will be able to: - - Describe and explain the rights of parents and rights of elders.	ISLAMIAT	60 minutes	Miss. Uzma	Lecture	Lecture hall – 1, Ground floor, Block-A
131.	SDL					
132.	CARDIOTHORACIC SURGERY	SURGERY	60 minutes	Dr.	Lecture	Lecture
	At the end of this lecture 1 st year MBBS students will be			Abdullah		hall -1 ,
	able to:					Ground
	- Explain the aortic and pericardial anatomy					floor,
	- Describe the coronary vascular system and its					Block-A
	implication in cardiac disease					





BAQAI MEDICAL COLLEGE





1ST Professional MBBS

DAYS	8:30-9:30	9:30-10:30	10:30- 11:00	11:00-12:00	12:00:-1:00	1:00-1:30	1:30-2:30	2:30-4:00
MONDAY 22-7-2024	BLOOD MODU	LE EXAM			MODULE AM		BLOOD MODULE EXAM	
TUESDAY 23-7-2024	ANATOMY MEDIASTINUM.	PEARLS		EMBRYO DEVELOPME NT OF HEART I	EMBRYO DEVELOPME NT OF HEART I		ANATOMY PERICARDIUM.	PATHO PERICARDIAL DISEASES DR NASEEMA IQBAL
WEDNESDAY 247-2024	ANATOMY HEART 1	ANATOMY HEART 2		SDL	RADIOLOGY		ANATOMY VA LVES AND OPENING OF THE HEART.	ANATOMY ARTERIAL SUPPLY OF HEART.
THURSDAY 257-2024	EMBRYO DEVELOPMENT OF ATERIAL SYSTEM	B.SCIENCE Ms Azra		ANATOMY GREAT VESSELS OF HEART. 1	EMBRYO DEVELOPME NT OF VENOUS SYSTEM		ANATOMY GREAT VESSELS OF HEART. 2	PHYSIO VENOUS SYSTEM-I Dr. Adnan
FRIDAY 267-2024	PHYSIO VENOUS SYSTEM-II Dr. M Ali	HISTO HEART & VESSELS		PATHO VASCULITIS VARICOSE VEINS/THROM BOPHLEBITIS DR SIDRA IZHAR	ISLAMIAT MS UZMA		PHYSIO HEART AS A PUMP Prof. Qamer	PHYSIO ACTION POTENTIALS OF CARDIAC MUSCLES Dr. Adnan

CVS MODULE WEEK 1





BAQAI MEDICAL UNIVERSITY BAQAI MEDICAL COLLEGE FIRST PROFESSIONAL M.B.B.S. CVS MODULAR GUIDE 2024- 2025 IST Professional MBBS

CVS MODULE





BAQAI MEDICAL UNIVERSITY BAQAI MEDICAL COLLEGE FIRST PROFESSIONAL M.B.B.S.

DAYS	8:30-9:30	9:30-10:30	10:30-	MÖBÜLA		2023	2025-2:30	2:30-4:00
MONDAY 29-7-2023	ANATOMY CONDUCTING SYSTEM OF HEART DR ANEELA	SURGERY SURGICAL ANATOMY OF HEART DR DANISH		EMBRYO DEVELOPMEN T OF CONDUCTING SYSTEM OF HEART. DR TAYYABA	PHYSIO RHYTHMIC EXCITATION OF THE HEART DR M Ali		PHYSIO REGULATION OF HEART PUMPING DR Adnan	PHYSIO NORMAL HEART RATE AND ARRHYTHMIAS Dr M.Ali
TUESDAY 30-7-2024	EMBRYO FETAL CIRCULATION DR TAYYABA	PHYSIO Coronary circulation Dr Leeza Mangi		PEADS CYANOTIC HEART DISEASE: 1	PEADS CYANOTIC HEART DISEASE: 2		PATHO VALVULAR HEART DISEASES DR SIDRA IZHAR	PHYSIO CARDIAC CYCLE – I DR M Ali
WEDNESDAY 317-2024	PHYSIO cardiac cycle II DR Adnan	PHYSIO cardiac cycle III DR Adnan		MEDICINE Valvar heart disease DR MASOODA	PHYSIO Electrocardiogr am (ECG)-I Dr M Ali		PHYSIO vectorial analysis DR Adnan	PHYSIO ECG – II CALCULATION OF MEAN ELECTRICAL AXIS OF QRS. PROF DR QAMER AZIZ
THURSDAY 18-2024	PHYSIO ELECTROCAR DIOGRAPHY DR SALEEMULLA H ABRO	MEDICINE ELECTROCARDI OGRAPHY DR MASOODA		BIO CARDIAC ENZYME DR IFFAT	ISLAMIAT MS UZMA		BIO Chemistry of cholesterol DR IFFAT	PHYSIO CARDIAC OUTPUT DR Saba Leeza





FRIDAY 28-2024	BIO Cholesterol metabolism I DR IFFAT	PATHO Myocardial Infarction DR SIDRA IZHAR		Physio: Properties of cardiac muscles Dr. M Ali		MEDICINE Ischemic heart diseases DR MASOODA	PHYSIO Factors regulating cardiac output (C.0) DR Saba Leeza			
	WEEK 2 BAQAI MEDICAL COLLEGE									
BAQAI MEDICAL COLLEGE 1ST Professional MBBS CVS MODULE										

WEEK 3





			10:30-					2:00-4:00
DAYS	8:30-9:30	9:30-10:30	11:00	11:00-12:00	12:00:-1:00	1:00-1:30	1:30-2:00	2.00-4.00
MONDAY 05.8.24	PATHO Ischemic Heart Diseases DR ROZINA KHAN	PEARLS DR SHAMS NADEM ALAM		PHYSIO Heart sound DR Saba Leeza	BIO Cholesterol Metabolism II DR IFFAT		SDL	 PHYSIO: ECG + Auscultation of heart sounds & Apex beat BIO: Detection of cholesterol HISTO: cardiac muscles
TUESDAY 6.8.24	PHYSIO Circulatory System I Dr. M Ali	BIO Sodium & potassium metabolism DR FARHAN		CI	BL		SDL	 PHYSIO: ECG + Auscultation of heart sounds & Apex beat BIO: Detection of cholesterol HISTO: cardiac muscles
WEDNESDAY 7.8.24	BIO Lipoprotein Metabolism I DR IFFAT	RESEARCH MS MARIA		BIO Lipoprotein metabolism II DR IFFAT	COMMUNITY MEDICINE Preventive cardiology DR NAZIA JAMEEL		SDL	PHYSIO: ECG + Auscultation of heart sounds & Apex beat BIO: Detection of cholesterol HISTO: cardiac muscles
THURSDAY 8.8.24	BIO Lipoprotein Metabolism III DR IFFAT	PHARMA Over view of Pharmacology of Hyperlipidemia DR SEHRISH/DRHI NA MASOOD		PATHO Atherosclerosis DR NASEEMA IQBAL	ISLAMIAT Ms.Uzma		PATHO CARDIOMYOPATHY DR ROZINA/DR SIDRA	PHYSIO Circulatory System II Dr. Adnan Ahmed
FRIDAY 9.8.24	B.SCIENCES Ms AZRA	SURGERY Surgical Anatomy of Heart DR ABDULLAH		BIO Introduction of Fluid &Electrolytes Balance DR KEHKASHAN	PHYSIO Blood Flow DR M.ALI		CARDIOTHORACIC SURGERY Surgical Anatomy of Heart & coronary Artery DR ABDULLAH	PHYSIO Pressure in circulatory system DR Saba Leeza





BAQAI MEDICAL COLLEGE 1ST Professional MBBS CVS MODULE WEEK 4





DAYS	8:30-9:30	9:30-10:30	10:30- 11:00	11:00-12:00	12:00:-1:00	1:00- 1:30	1:30-2:00	2:00-4:00
MONDAY 12.8.24	BIO Movement of water & Electrolytes between compartments DR KEHKASHAN	PHYSIO Resistance DR M.ALI		PHYSIO Resistance & Blood Flow DR M Ali			SDL	PHYSIO: Arterial pulse (Dr. Asma) BIO: Group B-SDL HISTO: Histology of Artery
TUESDAY 13.8.24	PHYSIO Vascular compliance & conductance DR M Ali	PHYSIO Microcirculation DR Adnan		PEaRLS Dr. Saima Qamer	GYNEA Cardiovascular physiology of pregnancy		SDL	PHYSIO: Arterial pulse (Dr. Asma) BIO: Group A-SDL HISTO: Histology of Artery
WEDNESDAY 14.8.24				INDEPENDENC E DAY			INDEPENDE	NCE DAY
THURSDAY 15.8.24	PHYSIO Lymphatic System PROF DR QAMER AZIZ	PHYSIO Local Control of Blood Flow-I DR M.ALI		Formative Assessment PHYSIOLOGY DR Saba Leeza	noisoning		SDL	PHYSIO: Arterial pulse(Dr. Asma)BIO: Group C-SDLHISTO: Histology of Artery
FRIDAY 16.8.24	PHYSIO Local Control of Blood Flow-II DR Adnan	PAEDSDRAREEBA		Acute art Pressure	YSIO terialBlood regulation MALI		PHYSIO Others regulatorsof Acute arterialBloodPressure Regulation DRAdnan	





BAQAI MEDICAL COLLEGE 1ST Professional MBBS CVS MODULE

WEEK 5

DAYS	8:30-9:30	9:30-10:30	10:30- 11:00	11:00- 12:00- 1:00- 1:30- 2:00- 4:00 12:00			2:00-4:00	
ONDAY19.8. 24	PHYSIO Intermediateregu lators ofAcute bloodpressure DRMALI	MEDICINE Chronic CongestiveHeartF ailure DRMASOODA		PHARMA Overview	COMMUNIT Y MEDICINE Cardiovascul arExercise DR AMMARAAL TAF		SDL	PHYSIO: BLOOD PRESSURE RECORDING, JVP (DR. Saba Leeza BIO: Group B-SDL HISTO: Histology of Vein
JESDAY20.8. 24	PHYSIO Longtermcontrol of arterial bloodpressure DR QAMERAZIZ	PHYSIO Circulatory Shock I DR M ALI	E A	PAEDSDRAREEBA 11:00-12:00 PHYSIO Circulatory Shock II DR Adnan 12:00-1:00		Lunch	SDL	PHYSIO: BLOOD PRESSURE RECORDING, JVP (DR. ASMA BIO: Group B-SDL HISTO: Histology of Vein
WEDNESDA Y 21.8.24	MEDICINE Hypertension DRMASOODA	ANATOMY Heart model DR ANEELA	B R E	Rev He	ysio view eart Adnan	&	SDL	PHYSIO: BLOOD PRESSURE RECORDING, JVP (DR. ASMA BIO: Group B-SDL HISTO: Histology of Vein
URSDAY22.8Bio .24 Review Dr. Iffat		Formative Assessment Anatomy Dr. Aneela	A K	С	BL	Prayer		Physio Review Circulation Dr. M Ali





FRIDAY 23.8.24	g g	slamyat 9:30- 0:30	Review Embryology & Histology Dr. Shahid Shaikh	Break	SDL
-------------------	-----	--------------------------	--	-------	-----

BAQAI MEDICAL COLLEGE 1ST Professional MBBS GIT MODULE WEEK 1

DAYS	8:30-9:30	9:30 - 10:30	10:30- 11:00	11:00-12:00	12:00:- 1:00	1:00- 1:30	1:30-2:00	2:00-4:20
MONDAY2 6.8.24	CVS Mod exam	lule		CVS N exam	Iodule		Μα	CVS odule xam
TUESDAY27. 8.24								
WEDNESD AY 28.8.24								





THURSDA Y29.8.24					
FRIDAY 30.8.24					

REFERENCE BOOKS AND OTHER READING RESOURCES:

GrossAnatomy	BDChaurasia's Handbook of GENERAL ANATOMY
	NetterAtlasofHumanAnatomy
Embryology	Langman'sEmbryology
Histology	LaiqHussainHistology
Physiology	Guyton and Hall. Textbook of Medical Physiology, 13 th Edition.
	Ganong's Review of Medical Physiology, 24th Edition.
Pathology	Robin`sBasicPathology-10 th Edition
Pharmacology	Essential
	- Bertram G. Katzung. Basic and Clinical Pharmacology, 14 th Edition. 2017.
	- Katzung and Trevor's pharmacology Examination and Board Review 11 th Edition 2015.
	Recommended
	- Lippincott's illustrated review of Pharmacology. 6 th Edition. 2015.
Prepared and Compiled by	





Islamiat	- Hameed ullah Muhammad, "Emergence of Islam", IRI, Islamabad, "Muslim Conduct of State" and "Introduction to Islam".
	 Hubbleton to Islam . Hussain Hamid Hassan, "An Introduction to the Study of Islamic Law" leaf Publication Islamabad, Pakistan. Abdul Qayyum Natiq, "Sirat-E-Mustaqim. Farkhanda Noor Muhammad, "Islamiat".
	- Dr. Muhammad Zia-ul-Haq, "Introduction to Al Sharia Al Islamia" Allama Iqbal Open University, Islamabad (2001).
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 Banarsidas Bhanot, Publisher, 2009.
Medicine	Davidson's Principles and Practice of Medicine-22 nd Edition
Clinical Examination	Talley and O'Connor's Clinical Examination-6 th Edition
Surgery	Bailey And Love Short Practice Of Surgery, 27th 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, Zarfshan Tahir, Rozina Karmaliani.





	Epidemiology - Leon Gordis; Fifth Edition.
PEARLs	https://www.mededportal.org/publication/10610/
PAEDS	Nelson Textbook of Pediatric 21 st edition.
	Textbook of Paediatrics (PPA) Fifth edition. Basis of Pediatrics (Pervez Akbar Khan) 10 th edition

ASSESSMENT METHODS:

THEORY:

EssayQuestions- 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.
- * ONE Best Choice Multiple Choice Questions (MCQs) are used to assess objectives covered in each module.
 - A BCQ 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, 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: o **Module Examination:** will be scheduled on completion of each module. The method of examination comprises theory exam which includes BCQs and OSPE (Objective Structured Practical Examination).





- Graded Assessment of students by Individual Department: Quiz, viva, practical, assignment, small group activities such as CBL, online assessment, ward activities, examination, and Practical journals.
- Marks of both modular examination and graded assessment will constitute 20% weightage which will be added to Annual Examination.

FORMATIVE ASSESSMENT:

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

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