



**BAQAI MEDICAL COLLEGE
FIRST PROFESSIONAL M.B.B.S. (2024-25)
BLOOD MODULE**

THE BLOOD MODULE

FIRST PROFESSIONAL M.B.B.S

STUDY GUIDE 2024-25



**BAQAI MEDICAL COLLEGE
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LIST OF ABBREVIATIONS

BMC **Baqai Medical College**
BMU **Baqai Medical University**



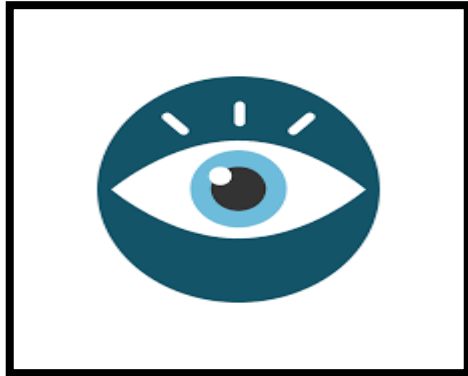
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CBL	Case Based Learning
LGIF	Large Group Interactive Format
LOs	Learning Objectives
MCQs	Multiple Choice Questions
OSCE	Objective Structured Clinical Examination
OSPE	Objective Structured Practical Examination
PEARLS	Professionalism, Ethics, Research, Leadership, Communication Skills
PW	Practical Work
SDL	Self Directed Learning
SGD / SGT	Small Group Discussion / Small Group Teaching
TS	Teaching Strategy

Vision

Mission

**BAQAI MEDICAL COLLEGE
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Baqai Medical University

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”.

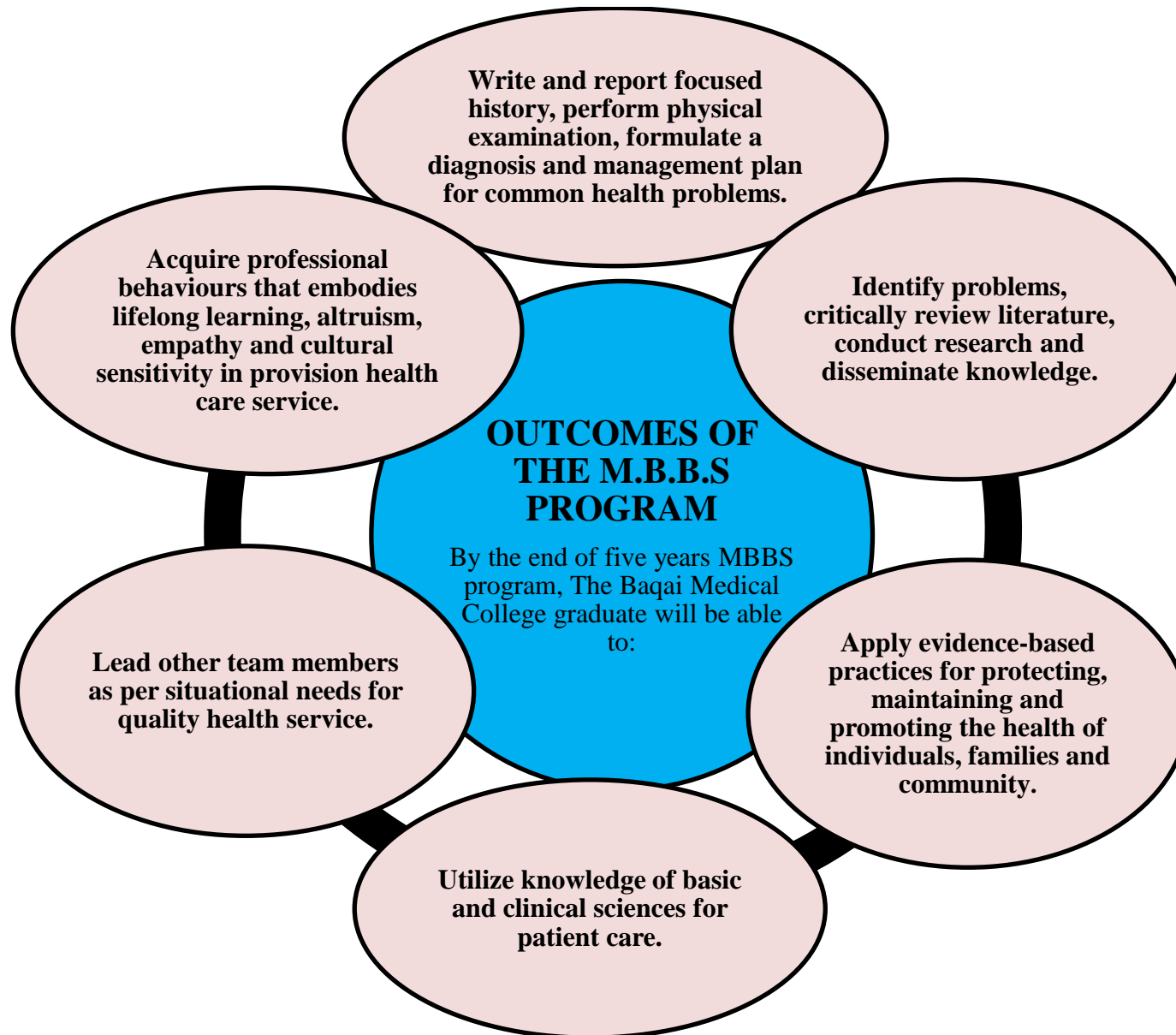
The mission of Baqai Medical University is to be recognized as a center of excellence in education, research, patient care, and community services by producing highly capable and knowledgeable professionals.

Baqai Medical College

Our vision is to enhance access and excellence in medical education and research, with the aim of capacity building of students and faculty through innovations, and science and technology competencies, to achieve rapid and sustainable health. The medical graduate thus produced, will be informed, and trained enough to serve the community better, and to be an advisor to the national and international health organizations.

The mission of the Baqai Medical College is to produce medical graduates, who are responsible and accomplished individuals and have skills for problem-solving, clinical judgment, research, and leadership for a 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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CURRICULUM COMMITTEE

Chairman Curriculum Committee

Prof. Dr Farrukh Naheed, Head, Department. of Obstetrics and Gynaecology

Co-Chairman Curriculum Committee

Dr Maesa Sajeel, Associate Professor, Department of Pathology

Secretary of the Curriculum Committee

Dr Saadia Akram, Assistant Professor, Department of Gynaecology and Obstetrics

MBBS SPIRAL 1 HEAD;

PROF Dr Inayat Ali

1ST YEAR MBBS (Coordinator)

DR TAYYABA KAZMI



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TIMETABLE AND STUDY GUIDE TEAM

SUBJECT	TEAM MEMBERS
BIOCHEMISTRY	DR IFFAT Coordinator
ANATOMY	DR ANEELA
PHYSIOLOGY	DR ALI
BICHEMISTRY	DR FARHAN
PHARMACOLOGY	DR HINA
PATHOLOGY	DR ROZEENA
FORENSIC MEDICINE	DR RAFEY
COMMUNITY MEDICINE	DR AMMARA
MEDICINE	DR MASOODA FATIMA/ DR SAIMA ASKARI
SURGERY	DR DANISH/ DR ABDULLAH
GYNAE/ OBS	DR NIKHAT ASHRAF
RESEARCH	DR MARIA



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PEARLS	DR MARIUM IBRAHIM
BEHAVIOR SCIENCES	DR AZRA SHAHEEN
ORTHOPEADICS	DR DANISH/ DR ABDULLAH
RADIOLOGY	DR MEHWISH

ASSESSMENT AND TOS

SUBJECT	TEAM MEMBERS
PHYSIOLOGY	DR ADNAN Coordinator
ANATOMY	DR SABA AKRAM
BIOCHEMISTRY	DR IFFAT
PHARMACOLOGY	DR HINA
PATHOLOGY	DR ROZEENA
FORENSIC MEDICINE	DR RAFEY
COMMUNITY MEDICINE	DR AMMARA
MEDICINE	DR ANEETA/ DR SAIMA ASKARI
SURGERY	DR DANISH/ DR ABDULLAH



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GYNAE/ OBS	DR NIKI-IAT ASHRAF
RESEARCH	DR MARIA
PEARLS	DR MARIUM IBRAHIM
BEHAVIOR SCIENCES	DR AZRASHAHEEN
ENT	DR REHANA
RADIOLOGY	DR MEHWISH
EYE	DR M S FAHMI

CBL DEVELOPMENT TEAM

SUBJECT	TEAM MEMBERS
BIOCHEMISTRY	DR KAHKASHAN Coordinator
PHYSIOLOGY	DR SABA LEEZA/ DR SALEEM ULLAH
ANATOMY	DR SHAHID PERVEZ



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INTRODUCTION OF BLOOD MODULE: This module serves as the foundation for understanding the Complications of hematology, which is crucial for your future medical practice.

Blood is a specialized bodily fluid that plays a pivotal role in maintaining homeostasis within the body. Comprising various cellular components and plasma, blood performs vital functions such as oxygen transport, waste removal, and immune defense.

In this module, we will explore the composition of blood, exploring its cellular elements, plasma constituents, and their respective functions. We will also discuss the physiology of blood, including its role in coagulation, immunity, and acid-base balance.

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Understanding the fundamentals of blood is key to diagnosing and managing a wide array of medical conditions. By the end of this module, you will have a comprehensive understanding of blood anatomy, physiology, biochemical, and pathophysiology and pharmacology in a public health, regarding future studies in hematology and clinical practice.



The blood module outcomes ;
IDENTIFY & DESCRIBE THE ANATOMICAL ,PHYSIOLOGICAL AND
BIOCHEMICAL ASPECYS OF VARIOUS CELLULAR AND NON CELLULAR
COMPONENTS OF BLOOD

DESCRIBE THE SYNTHESIS, STRUCTURE AND DEGRADATION OF



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Year to be taught: First Professional
M.B.B.S.

Placement of Blood Module: Third
Duration- the start and end of Blood
Module:

4 weeks + 1 day

Tentative Dates: 28. 05. 24 – 19. 07. 2024.

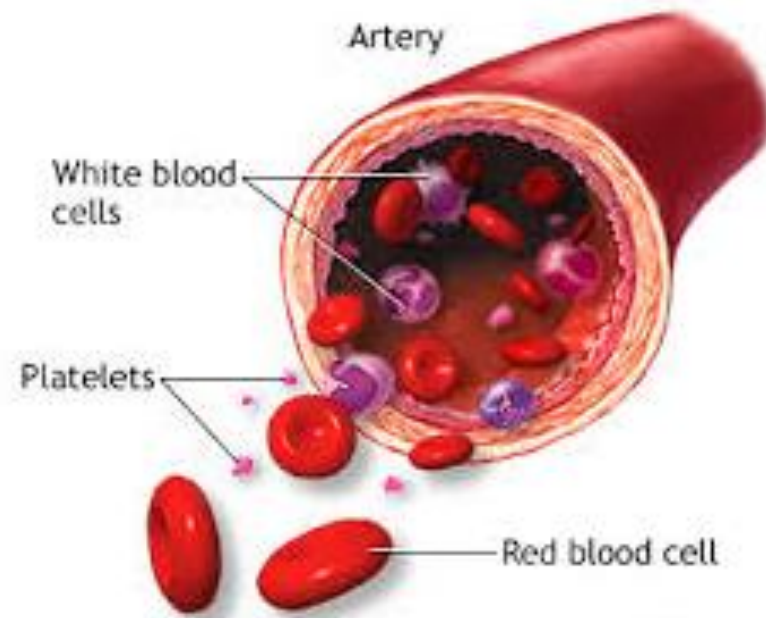
End of Module Assessment (EOA)

Tentative date: 22. 07. 2024

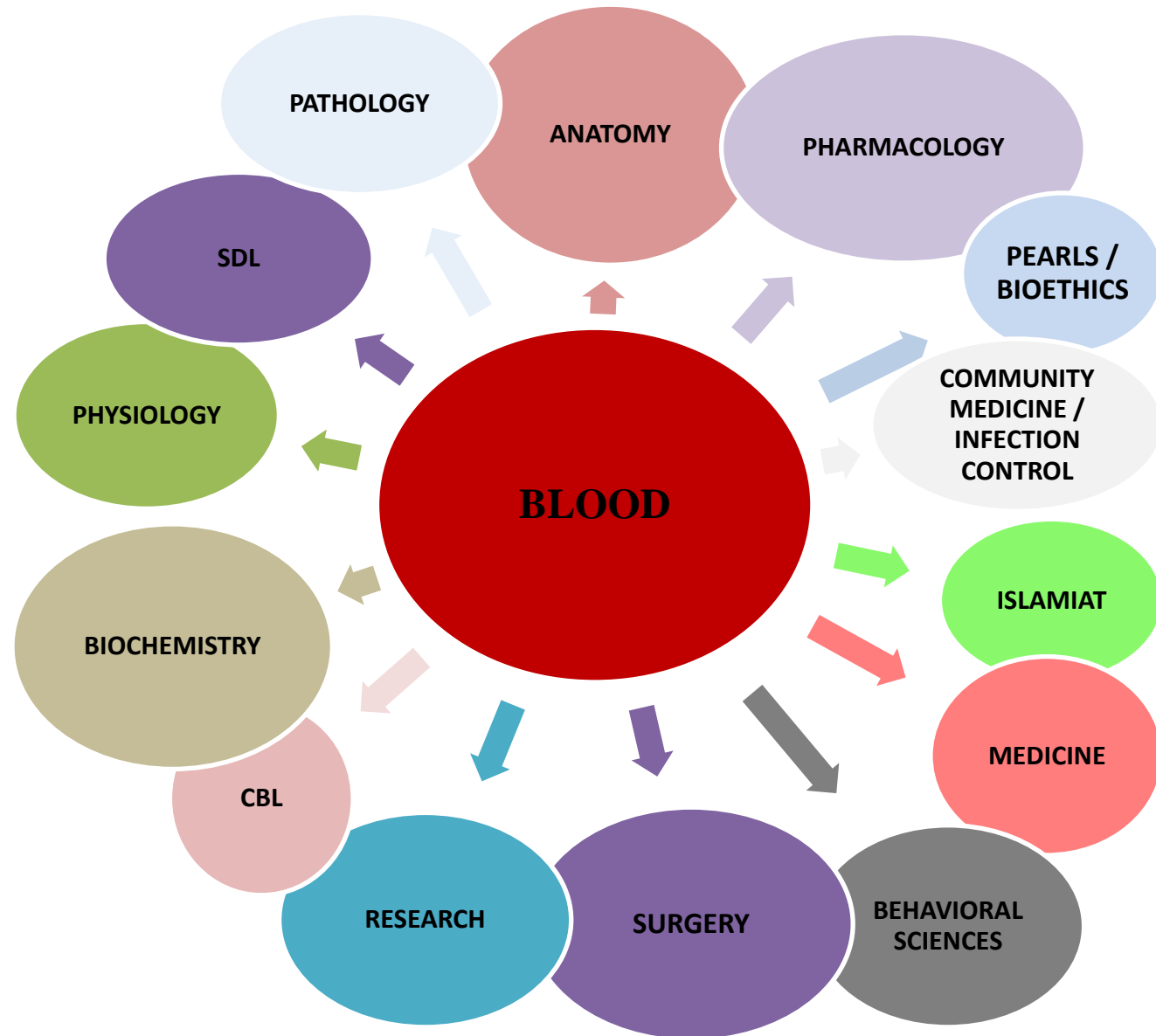


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INTEGRATED TEACHING

Topics with objectives	Department	Duration	Facilitator	Teaching strategy	Venue
At the end of this lecture First Year M.B.B.S. student will be able to; DEVELOPMENT OF BLOOD CELLS: -Define hematopoiesis. -Describe the sites of hematopoiesis before and after birth -Discuss the source of hematopoiesis	Anatomy	60 minutes	Dr Tayyaba	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; HEMATOGENESIS -Differentiate stem / pluripotent cells, progenitor and precursor (blasts) cells -Explain the development of various types of blood cells	Anatomy	60 minutes	Dr Tayyaba	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; ERYTHROPOIESIS -Discuss the site involved in Erythropoiesis -Describe the Importance of multipotent hematopoietic stem cells (MHSC) -Explain the stages of differentiation of erythropoiesis	Physiology	60 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p> <p>INTRODUCTION OF RED BLOOD CELLS:</p> <ul style="list-style-type: none">-Describe the Shape, size and life span of Red Blood Cells and Red Blood Cell count-Recite the Quantity of Hemoglobin in Red Blood Cell.-Explain the importance of Hemoglobin transportation of Oxygen in tissues	Physiology	60 minutes	Dr Adnan	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p> <p>FACTORS REGULATING ERYTHROPOIESIS:</p> <ul style="list-style-type: none">-Enumerate the factors which regulate erythropoiesis-Define the role of erythropoietin-Explain the role of Hypoxia in erythropoiesis-Identify the role of erythropoietin in the production of pro-erythroblast from Pluripotent Haemopoetic Stem Cell	Physiology	60 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p> <p>METABOLISM OF HAEMOPOETIC VITAMINS:</p>	Biochemistry	60 minutes	Dr Iffat	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>-Discuss the active forms and sources of vitamin B12 and Folic acid-</p> <p>Discuss the function of vitamin B12 and folic acid with hemoglobin synthesis</p>					
<p>At the end of this lecture First Year M.B.B.S. student will be able to; MATURATION OF RBC BY VITAMIN B12 AND FOLIC ACID</p> <p>-Explain the importance of maturation failure in B12 deficiency. -Define pernicious anemia -Identify the maturation failure in folic acid deficiency.</p>	Physiology	60 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; RBC COUNT</p> <p>-Discuss RBC functions -Explain the ruling area of chamber -Demonstrate the steps to measure RBCs in neubar’s chamber -Practice the slide focus for Neubar’s chamber -Calculate the number of RBC</p>	Physiology	120 minutes	Dr M.Ali	Practical	Physio lab, 1 st floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; METABOLISM OF Copper:</p>	Biochemistry	60 minutes	Dr Farhan	Lecture	Lecture hall – 1, Ground floor, Block-A



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<ul style="list-style-type: none"> -Describe the absorption of Copper from the small intestine. -List the functions of Copper in the body -Identify the importance of Copper iron metabolism -List the functions of Copper in the body. -Identify the importance Copper in iron metabolism 					
<p>At the end of this lecture First Year M.B.B.S. student will be able to; HEMOGLOBIN:</p> <ul style="list-style-type: none"> -Describe the structure of hemoglobin -Define methemoglobin and methemoglobinemia. -Explain the conversion of methemoglobin into Hemoglobin -Discuss Carbon Mono-Oxide poisoning 	Biochemistry	60 minutes	Dr Iffat	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; FUNCTIONS OF HEMOGLOBIN:</p> <ul style="list-style-type: none"> -List the types of hemoglobin -Enumerate the functions of hemoglobin -Explain the transport of Oxygen by hemoglobin 	Physiology	60 minutes	Dr Adnan	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to; METABOLISM OF IRON:</p> <ul style="list-style-type: none">-Describe the absorption and metabolism of Fe in the body.-Identify the importance of essential iron in the formation of hemoglobin.-Explain the role of ferritin in iron overload.	Biochemistry	120 minutes	Dr Farhan	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; BIOSYNTHESIS OF PORPHYRINS</p> <ul style="list-style-type: none">-Define porphyrins-Describe the sequence of reactions involved in heme synthesis-Identify the enzymes and co-enzymes involved in heme synthesis.-Describe the regulation of heme synthesis	Biochemistry	60 minutes	Dr Iffat	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; PORPHYRIAS:</p> <ul style="list-style-type: none">-Define porphyrias-Classify the types of porphyrias-Identify the enzyme deficient in every porphyria	Biochemistry	60 minutes	Dr Iffat	Lecture	Lecture hall – 1, Ground floor, Block-A



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-Explain the clinical manifestations of porphyria on the basis of sign & symptoms					
At the end of this lecture First Year M.B.B.S. student will be able to; PLASMA: -Define plasma -Define hematocrit -List the main functions of plasma -Explain the osmotic functions of plasma proteins	Physiology	60 minutes	Dr Adnan	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; PLASMA PROTEINS -Define plasma protein & state the normal level in blood -Discuss the functions of plasma proteins in our bodies -Discuss the Albumin and its biomedical importance -Explain the deficiency of plasma proteins	Biochemistry	60 minutes	Dr Iffat	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p> <p>GLOBULINS-:</p> <ul style="list-style-type: none">-Classify Globulins: α, β, and γ-globulins-Identify the site of synthesis of globulins.-Explain the functions of different types of globulins.-Identify the site of synthesis of fibrinogen.-Discuss the functions of fibrinogen	Biochemistry	30 minutes	Dr Iffat	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p> <p>ISLAMIAT</p> <ul style="list-style-type: none">--Describe the concepts of Quran--Explain in detail the verses of Surah Hijrat(Verses of Surah Al-Hujurat Related to Adab Al-Nabi (Verse No. 1-18)).	Islamiat	60 minutes	Miss Uzma	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p> <p>DEGRADATION OF HEME</p> <ul style="list-style-type: none">-List the sources of bilirubin-Identify the principal sites of Hemoglobin breakdown-Describe the reactions involved in heme catabolism-Discuss the transport of bilirubin in the blood to the liver	Biochemistry	60 minutes	Dr Iffat	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to; JAUNDICE AND CLASSIFICATION OF JAUNDICE: -Define jaundice -Classify jaundice. -Describe the types of jaundice -Explain the clinical features and biochemical findings in all types of jaundice</p>	<p>Biochemistry</p>	<p>30 minutes</p>	<p>Dr Iffat</p>	<p>Lecture</p>	<p>Lecture hall – 1, Ground floor, Block-A</p>
<p>At the end of this lecture First Year M.B.B.S. student will be able to; LIVER FUNCTION TEST: -Identify the liver function tests used for the diagnosis of jaundice. -Describe van den Bergh test for estimating bilirubin -Discuss the estimation of the enzymes : ALT, AST, ALP and GGT in the differential diagnosis of liver dysfunction</p>	<p>Biochemistry</p>	<p>60 minutes</p>	<p>Dr Farhan</p>	<p>Lecture</p>	<p>Lecture hall – 1, Ground floor, Block-A</p>
<p>At the end of this Practical First Year M.B.B.S. student will be able to; BIURET TEST -Recall the structure of peptide bond -Detect the presence of protein in the given sample.</p>	<p>Biochemistry</p>	<p>120 minutes</p>	<p>Dr Farhan</p>	<p>Practical</p>	<p>Biochem lab, 1stfloor, Block-A</p>



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Describe the principle of the reaction taking place in the equipment. -Record the observation off sample and control in the equipment					
At the end of this lecture First Year M.B.B.S. student will be able to; RBC DISORDERS I -Describe the Structure & Function of Normal Hemoglobin -Enumerate the Types of Abnormal Hemoglobin -Explain the Thalassemia and Sickle Cell Anemia	Pathology	60 minutes	Dr. Rozina Khan	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; RBC DISORDERS-II Describe the components of Blood and its Functions -Define & Classify anemia -Explain the pathogenesis of Iron Deficiency Anemia, Macrocytic Anemia, G6PD Deficiency	Pathology	60 minutes	Dr M. Rizwan	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this Practical First Year M.B.B.S. student will be able to; Hb ESTIMATION -Discuss the functions of Hb	Physiology	120 minutes	Dr M.Ali	Practical	Physio lab, 1 st floor, Block-A



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<p>-Identify the parts & principle of Sahlis hemocytometer -Demonstrate the method of Hb estimation -Determine the value of H</p>					
<p>At the end of this lecture First Year M.B.B.S. student will be able to; ANEMIAS: -Define anemia -List the types of anemias -List the causes of each type -Explain the effects of anemias on circulatory system functions</p>	Physiology	60 minutes	Dr Saba Leeza	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; ANEMIAS I -Define anemia and distinguish various different causes of anemia. -Review clinical signs to identify anemia in patient.</p>	Medicine	60 minutes	Dr. Masooda Fatima	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; ANEMIAS II -Describe lab test to identify various types of anemia. -Recite Treatment options for various causes of Anemia.</p>	Medicine	60 minutes	Dr. Masooda Fatima	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to; POLYCYTHEMIA: -Define polycythemia -List the different types of polycythemia -Explain the effects of polycythemia on circulatory system functions</p>	Physiology	60 minutes	Dr Adnan	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; OVERVIEW OF PHARMACOLOGY OF ANEMIA -Describe the physiology of anemia. -Discuss the pathophysiology of anemia. -Explain and understand the mechanistic pharmacology of anemia.</p>	Pharmacology	60 minutes	Dr Hina	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; GROSS ANATOMY OF SPLEEN: -Identify the location, structure and anatomical relation of the spleen -Discuss the blood supply and nerve supply of the spleen</p>	Anatomy	60 minutes	Dr Saba Akram	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; EMBRYOLOGY OF SPLEEN -Describe the development of spleen.</p>	Anatomy	60 minutes	Dr Tayyaba	Lecture	Lecture hall – 1, Ground floor, Block-A



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-Development of fore gut, mid gut and hind gut.					
At the end of this Practical First Year M.B.B.S. student will be able to; HISTOLOGY OF SPLEEN -Identify the location, structure and anatomical relation of the spleen -Discuss the histological features of the spleen.	Anatomy	120minutes	Dr Aneela	Practical	Histo lab, 1 st floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; HISTOLOGGY OF LYMPH NODES -Identify the structure, function of lymph nodes. -Identify the histological appearance & features of lymph nodes	Anatomy	60 minutes	Dr. Inayat	Lecture	Histo lab, 1 st floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; WBCs: -Identify WBC count or total leucocyte count. -Describe the functions WBCs -List the different types of WBCs -List the concentration of different types of WBCs -List the life span of different types of WBCs -Explain the different stages of Leukopoiesis.	Physiology	60 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A



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At the end of this lecture First Year M.B.B.S. student will be able to; EOSINOPHILS: -Explain the role of eosinophils against parasites -Explain the role of eosinophils in allergies.	Physiology	60 minutes	Dr Saba Leeza	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; BASOPHILS: -List the substances secreted by basophils -Explain the role of basophils in allergic reactions.	Physiology	60 minutes	Dr Saba Leeza	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; RETICULOENDOTHELIAL SYSTEM: -Define the reticuloendothelial system -List the types of macrophages -Identify the role of macrophages (histiocytes) in subcutaneous tissues lymph nodes -Explain the functions of macrophages in the lungs -Explain the functions of macrophages in the liver spleen and bone marrow	Physiology	120 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; STEPS OF INFLAMMATION: -Explain margination	Physiology	60 minutes	Dr Qamer Aziz	Lecture	Lecture hall – 1, Ground floor, Block-A



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<ul style="list-style-type: none">-Define diapedesis-Define the ameboid motion of neutrophils-Explain chemotaxis-Identify the Walling-off effect of inflammation-Define the characteristics of inflammation-Name the tissue factors of inflammation					
<p>PHAGOCYTOSIS:</p> <ul style="list-style-type: none">-Define phagocytosis-Explain phagocytosis by neutrophils-Explain phagocytosis by macrophages-Explain the killing of bacteria by macrophages and neutrophils	Physiology	60 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p> <p>FUNCTION OF MACROPHAGES IN INFLAMMATION</p> <ul style="list-style-type: none">-Explain histiocytes providing first-line defense against infection-Discuss the role of neutrophils as a second-line defense in inflammation-Define neutrophilia-Explain the role of macrophages in 3rd line defense-Explain the increased production of granulocytes and monocytes helping provide 4th line of defense.-Explain pus formation.	<p>Physiology</p>	<p>60 minutes</p>	<p>Dr Adnan</p>	<p>Lecture</p>	<p>Lecture hall – 1, Ground floor, Block-A</p>
<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p> <p>INTRODUCTION TO LYMPHOID TISSUE AND IMMUNE SYSTEM</p> <ul style="list-style-type: none">-Describe the immune system and lymphoid tissue.-Differentiate between central lymphoid organs and peripheral lymphoid organs.-Identify the structure and function of lymph nodes.-Identify the histological appearance & features of lymph nodes	<p>Anatomy</p>	<p>60 minutes</p>	<p>Dr Tayyaba</p>	<p>Lecture</p>	<p>Lecture hall – 1, Ground floor, Block-A</p>



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<p>At the end of this lecture First Year M.B.B.S. student will be able to; HISTOLOGY LYMPHOID TISSUE</p> <ul style="list-style-type: none">-Describe the immune system and lymphoid tissue.-Differentiate between central lymphoid organs and peripheral lymphoid organs.-Identify the structure and function of lymph nodes.-Identify the histological appearance & features of lymph nodes	Anatomy	60 minutes	Dr Inayat	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; HISTOLOGGY OF LYMPH NODES</p> <ul style="list-style-type: none">-Identify the structure, function of lymph nodes.-Identify the histological appearance & features of lymph nodes	Anatomy	60 minutes	Dr. Inayat	Lecture	Histo lab, 1 st floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; THYMUS</p> <ul style="list-style-type: none">-Identify the structure, function of thymus.-Identify the histological appearance & features of thymus	Anatomy	60 minutes	Dr Tayyaba	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to; TONSIL -Identify the structure, function of tonsil -Identify the histological appearance & features of tonsil</p>	Anatomy	120 minutes	Dr Aneela	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; ISLAMIAAT --Describe the concepts of Quran --Explain in detail the verses of Surah Hijrat(Verses of Surah Al-Hujurat Related to Adab Al-Nabi (Verse No. 1-18)).</p>	Islamiat	60 minutes	Mr Amir	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; WBC DISORDERS -Describe Quantitative & Qualitative Disorders and their related Terminologies. Describe WBC Cancer Terminologies & Types</p>	Pathology	60 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; LEUKOPENIA & LEUKEMIAS: -Define leukopenia -Define leukemia -Explain briefly the effect of leukemia on the body.</p>	Physiology	60 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A



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At the end of this lecture First Year M.B.B.S. student will be able to; LEUKEMIAS 1 -Describe various types of Leukemia. -Associate various clinical presentations of leukemia	Medicine	90 minutes	Dr. Masooda Fatima	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; LEUKEMIAS II -Demonstrate possible treatment options advisable for leukemia. -Summarize multiple clinical signs and symptoms of Leukemia	Medicine	60 minutes	Dr. Masooda Fatima	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this Practical First Year M.B.B.S. student will be able to; HEAT COAGULATION TEST -Identify coagulable and non-coagulable proteins -Detect the presence of coagulable protein in the given sample by heat coagulation test - Describe the principle of the reaction taking place in the equipment	Biochemistry	120 minutes	Dr Farhan	Practical	Biohem Lab, 1 st floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to; IMMUNOGLOBULINS-I</p> <ul style="list-style-type: none">-Define immunoglobulin-Classify immunoglobulin-Identify the site of synthesis of Igs-Define antigen-Differentiate between humoral immunity and cell-mediated immunity.-Enumerate the functions of each class of immunoglobulins	Biochemistry	60 minutes	Dr Iffat	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; BLOOD AND PUBLIC HEALTH</p> <ul style="list-style-type: none">-Discuss the blood related disorders-Explain the preventive strategies to reduce the illness and disability related to blood disorders	Community Medicine	60 minutes	Dr. Muneer Ahmed	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this Practical First Year M.B.B.S. student will be able to; WBC COUNT</p> <ul style="list-style-type: none">-Discuss WBCs functions & types-Discuss specific ruling area for WBCs count-Demonstrate the method of WBCs estimation by hemocytometer	Physiology	120 minutes	Dr M.Ali	Practical	Physio lab, 1 st floor, Block A



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<ul style="list-style-type: none"> -Demonstrate the steps to measure WBCs in neubar’s chamber - Practice the slide focus for Neubar’s chamber -Calculate the number of WBCs 					
<p>At the end of this lecture First Year M.B.B.S. student will be able to; IMMUNOGLOBULINS-II:</p> <ul style="list-style-type: none"> -Identify the difference between serum IgA and non-vascular IgA in secretions -Describe the function of the ‘secretory component’ T-piece in antibodies -Illustrate the structure of immunoglobulin 	Biochemistry	60 minutes	Dr Iffat	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; IMMUNITY AND ITS TYPES:</p> <ul style="list-style-type: none"> -Define immunity -List the types of immunity -Define antigen -Define antibody -Identify the plasma cells -Explain the pre-processing of B-cell & T-cell -Explain innate immunity 	Physiology	60 minutes	Prof Dr Qamer Aziz	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>T-CELL / CELL-MEDIATED IMMUNITY:</p> <ul style="list-style-type: none"> -Identify the different types of T-cells -Explain the regulatory functions of lymphokines. -Describe Helper T-cell immunity -Explain Cytotoxic T-cell immunity -Define immune tolerance. <p>Define autoimmunity.</p>	Physiology	60 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this Practical First Year M.B.B.S. student will be able to;</p> <p>HISTOLOGY OF THYMUS</p> <ul style="list-style-type: none"> -Identify the histological appearance & features of thymus 	Anatomy	120 minutes	Dr Aneela	Practical	Hissto lab, 1 st floor, Block A
<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p> <p>HUMORAL / B-CELL IMMUNITY:</p> <ul style="list-style-type: none"> -Describe humoral immunity -List the different types of antibodies -Describe the formation of antibodies by plasma cells -Describe the role of antibodies in immunity -Explain the role of memory cells in enhancing antibody response-primary and secondary response. -Explain the direct action of antibodies. 	Physiology	60 minutes	Dr Adnan	Lecture	Lecture hall – 1, Ground floor, Block-A



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-Explain the complement system enhancing effect of antibodies.					
At the end of this lecture First Year M.B.B.S. student will be able to; ALLERGIES AND HYPERSENSITIVITY: -Discuss the delayed reaction allergy -Explain atopic allergies, i.e anaphylaxis, urticarial, hay fever, asthma	Physiology	60 minutes	Prof Dr Qamer Aziz	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; IMMUNIZATION: -Explain the active and passive immunization.	Physiology	120 minutes	Dr Saba Abrar	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; CATEGORIES AND TYPES OF RESEARCH -Explain the categories of research - Define the types of research	Research	60 minutes	Ms Maria Raheem	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to; ABO-B BLOOD TYPES-I</p> <ul style="list-style-type: none">-Define ABO blood group system-Tabulate Nature of OAB system antigens-Define the Terms “Agglutinin”, “Agglutinins” & “Agglutination”.-Identify Titer of agglutinins at different age groups	Physiology	60 minutes	Dr M.Ali	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; OVERVIEW OF PHARMACOLOGY OF ANEMIA</p> <ul style="list-style-type: none">-Recall the physiology of anemia.-Discuss the pathophysiology of anemia.-Explain and understand the mechanistic pharmacology of anemia.	Pharma	60 minutes	Dr Hina	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; ABO-B BLOOD TYPES-II</p> <ul style="list-style-type: none">-Explain Allele or genotype & 4 blood groups & Concept of phenotype-Explain the features of mismatched blood grouping-Explain the importance of blood grouping-List the minor blood groups.	Physiology	60 minutes	Dr Adnan	Lecture	Lecture hall – 1, Ground floor, Block-A



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-List the frequencies of different blood groups.					
At the end of this lecture First Year M.B.B.S. student will be able to; RH SYSTEM IN BLOOD GROUPING-I: -Identify the importance of D-Antigen. -List the types of Rh Antigen. -Explain the importance of Rh system in blood transfusion. -Discuss the transfusion reactions due to mismatch transfusions.	Physiology	60 minutes	Dr Saleem ullah	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; RH SYSTEM IN BLOOD GROUPING-II: -Explain erythroblastosisfetalis -Summarize the prevention and treatment of erthyroblastosisfetalis	Physiology	60 minutes	Dr Saleem ullah	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; SKILL TEST -Discuss different test taking skills	Pearls	60 minutes	Dr Mariam Ibrahim	Lecture	Lecture hall – 1, Ground floor, Block-A
At the end of this lecture First Year M.B.B.S. student will be able to; HISTOLOGY OF TONSIL -Identify the structure, function of tonsil	Anatomy	60 minutes	Dr Inayat	Lecture	Histo Lab, 1 st floor, Block-A



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-Identify the histological appearance & features of tonsil					
At the end of this Practical First Year M.B.B.S. student will be able to; SATURATION TEST -Detect the presence of albumin and globulin in the given sample of experiment -Name the reagent to be used in the experiment. -Describe the principle of the reaction taking place in the experiment -Record the observation of the sample and control in the experiment. -Detect the presence of the globulin by full saturation test.	Biochemistry	120 minutes	Dr Farhan	Practical	Biohem Lab, 1 st floor, Block-A
At the end of this Practical First Year M.B.B.S. student will be able to; BLOOD GROUPING & B.T&C. T -Describe the principle of respective practical -Identify the apparatus & reagents used -List the precautions -Prepare the tile for blood grouping -Detect the blood group -Demonstrate the Duke's method of the given practical -Define bleeding time	Physiology	120 minutes	Dr M.Ali	Practical	Physio Lab, 1 st floor, Block-A



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-Estimate the time of bleeding of the given subject					
At the end of this lecture First Year M.B.B.S. student will be able to; VITAMIN E AND K: -List the different forms of vitamin E that occur in nature. -Identify the antioxidant property of vitamin E -Outline the clinical features of vitamin E deficiency. -List the different forms of vitamin K -Identify the dietary sources and daily requirements of vitamin K -Explain the various functions of vitamin K specially in coagulation process and its deficiencies	Biochemistry	60 minutes	Dr Farhan	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to; HEMOSTASIS</p> <ul style="list-style-type: none"> -Define the Term “Hemostasis”. -List & Define the Steps of Hemostasis. -Define thrombopoiesis. -Explain the functions of platelets in hemostasis. -Name bleeding disorders. -Identify the life span and normal platelet count. -Categorize Clotting Pathways & Explain the Process of Blood Clotting. -Mention the Abnormalities of -Increasing or Decreasing Levels of Platelets. 	<p>Physiology</p>	<p>60 minutes</p>	<p>Dr M.Ali</p>	<p>Lecture</p>	<p>Lecture hall – 1, Ground floor, Block-A</p>
<p>At the end of this lecture First Year M.B.B.S. student will be able to; COAGULATION:</p> <ul style="list-style-type: none"> -Enlist the clotting factors. -Identify clotting pathways -Explain extrinsic clotting mechanism-clotting cascade -Discuss intrinsic clotting mechanism-clotting cascade -Explain the role of calcium in clotting. 	<p>Physiology</p>	<p>60 minutes</p>	<p>Dr Sobia</p>	<p>Lecture</p>	<p>Lecture hall – 1, Ground floor, Block-A</p>
<p>At the end of this lecture First Year M.B.B.S. student will be able to;</p>	<p>Pharmacology</p>	<p>60 minutes</p>	<p>Dr Hina</p>	<p>Lecture</p>	<p>Lecture hall – 1,</p>



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<p>OVERVIEW OF PHARMACOLOGY OF BLOOD COAGULATION DISEASE. -Recall the physiology of blood coagulation disease. -Discuss the pathophysiology of blood coagulation disease. -Explain and understand the mechanistic pharmacology of blood coagulation disease</p>					Ground floor, Block-A
<p>HAEMATOLOGICAL CHANGES DURING PREGNANCY -Discuss the haemodynamic changes during pregnancy. -Explain the cause of physiological anemia in pregnancy. -Describe the cause of acute weight gain in pregnancy.</p>	Gynecology	60 minutes	Dr Nikhat	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; CLOTTING DISORDER I -Identify clotting factors and their various types. -Describe extrinsic and intrinsic pathology for clot formation -Recall signs and symptoms of clotting disorder -Memorize investigations required to diagnose the specific clotting disorder</p>	Medicine	60 minutes	Dr. Masooda Fatima	Lecture	Lecture hall – 1, Ground floor, Block-A



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At the end of this lecture First Year M.B.B.S. student will be able to; THROMBOEMBOLIC CONDITIONS: -Define thrombosis. -List the causes of thromboembolic conditions -Identify disseminated intravascular condition. -Name anticoagulants in clinical use.	Physiology	60 minutes	Dr Saba Abrar	Lecture	Lecture hall – 1, Ground floor, Block-A
PLATELET & COAGULATION FACTOR DISORDERS -Classify Platelet Disorders -Classify Coagulation Disorders -Describe Hemophilia	Pathology	60 minutes	Dr Rozina	Lecture	Lecture hall – 1, Ground floor, Block-A
LYSIS OF BLOOD CLOTS: -Discuss the activation of plasminogen in clot lysis. -Describe hemophilia -Summarize the clotting disorders caused by vitamin-K deficiency.	Physiology	60 minutes	Dr Adnan	Lecture	Lecture hall – 1, Ground floor, Block-A
CLOTTING DISORDER II -Identify clotting factors and their various types. -Describe extrinsic and intrinsic pathology for clot formation -Recall signs and symptoms of clotting disorder -Memorize investigations required to diagnose the specific clotting disorder	Medicine	60 minutes	Dr. Masooda Fatima	Lecture	Lecture hall – 1, Ground floor, Block-A



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<p>At the end of this lecture First Year M.B.B.S. student will be able to; ANTI-COAGULANTS:</p> <ul style="list-style-type: none">-Explain the role of intravascular anticoagulants.-Describe the antithrombin action of fibrin-Explain the actions of antithrombin-III-Discuss the role of heparin	Physiology	60 minutes	Prof Dr Qamer Aziz	Lecture	Lecture hall – 1, Ground floor, Block-A
<p>At the end of this lecture First Year M.B.B.S. student will be able to; O-A-B BLOOD TYPES-III</p> <ul style="list-style-type: none">-List the ABO blood groups-Name the antigens, which determine ABO blood groups.-Name the antibodies present in ABO groups.-Tabulate the respective antigens and antibodies in each group.	Physiology	60 minutes	Dr Adnan	Lecture	Lecture hall – 1,
<p>THROMBOCYTOPENIA</p> <ul style="list-style-type: none">-Identify definition of thrombocytopenia and describe its various causes -Recognize clinical signs of severe thrombocytopenia.-Discuss multiple options required for treatment of severe thrombocytopenia.	Medicine	60 minutes	Dr Masooda	Lecture	Ground floor, Block-A



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**TENTATIVE
TIME TABLES
FOR
BLOOD MODULE
1ST YEAR MBBS
SESSION 2024-2025**



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***PLEASE NOTE: THESE ARE TENTATIVE TIME TABLES, SUBJECTED TO MINOR CHANGES**

Week 1 (28.5.2024 - 31.5.2024)



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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 27-05-2024	MSK MODULE EXAM		TEA BREAK	MSK MODULE EXAM		LUNCH AND PRAYERS	MSK MODULE EXAM	
TUESDAY 28-05-2024	EMBRYO development of blood cells DR TAYYABA	ISLAMIAT		EMBRYO Hematogenesis DR TAYYABA	PHYSIO Introduction of red blood cells Dr Adnan		SDL	PRACTICAL: BIO:PROTEIN SCHEME(DEMO)DR FARHAN HISTO :SPLEEN DR ANEELA PHYSIO:RBC COUNT DR M.ALI
WEDNESDAY 29-05-2024	EMBRYO SPLEEN DR TAYYABA	PHYSIO Erythropoiesis Dr M.ALI		ANATOMY Gross of spleen Dr SABA	PHYSIO Factors regulating erythropoiesis: DR M.ALI		SDL	PRACTICAL: BIO:PROTEIN SCHEME(DEMO)DR FARHAN HISTO :SPLEEN DR ANEELA PHYSIO:RBC COUNT DR M.ALI
THURSDAY 30-05-2024	HISTO SPLEEN DR INAYAT	BIO-CHEM Metabolism of haemopoetic vitamins DR IFFAT		PRACTICAL: BIO:PROTEIN SCHEME(DEMO) DR FARHAN HISTO :SPLEEN DR ANEELA PHYSIO:RBC COUNT DR M.ALI			SDL	ANATOMY SGT Spleen model DR ANEELA/DR AYESHA
FRIDAY 31-05-2024	PHYSIO Maturation of RBC by B12 and folic acid DR IFFAT	BIO CHEM Metabolism of copper DR FARHAN		BIO-CHEM Biosynthesis of porphyrins DR IFFAT	PHYSIO Plasma DR ADNAN		SDL	BIO-CHEM Metabolism of iron DR FARHAN



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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 1-07-2024	BIO-CHEM Porphyrias DR IFFAT	BIO-CHEM Hemoglobin DR IFFAT	TEA BREAK	PHYSIO Functions of hemoglobin PROF DR QAMER AZIZ	PHYSIO Anemias DR SABA LEEZA	LUNCH AND PRAYERS	SDL	PRACTICAL: BIO: BIURET TEST DR FARHAN HISTO :Histology of lymph node DR ANEELA PHYSIO: Hb ESTIMATION DR M.ALI
TUESDAY 2-07-2024	BIO-CHEM Plasma proteins DR IFFAT	ISLAMIAT		MEDICINE Anemias I	MEDICINE Anemias II		BIOCHEM Globulins DR IFFAT	PRACTICAL: BIO: BIURET TEST DR FARHAN HISTO : Histology of lymph node DRANEELA PHYSIO: Hb ESTIMATION DR M.ALI
WEDNESDAY 3-07-2024	PHYSIO Polycythemia DR ADNAN	PATHO RBC disorders I Dr Munazza Rashid		PHARMA Overview of pharmacology of anemia	PATHO RBC disorders II Dr Maeesa Sajeel		SDL	PRACTICAL: BIO: BIURET TEST DR FARHAN HISTO:Histology of lymph node DRANEELA PHYSIO: Hb ESTIMATION DR M.ALI
THURSDAY 4-07-2024	BIOCHEM Degradation of Heme DR IFFAT	SDL		CBL			BIOCHEM Jaundice and classification of jaundice DR IFFAT	PHYSIO Reticuloendothelial system DR M.ALI
FRIDAY 5-07-2024	BIO LIVER FUNCTION TEST DR FARHAN	ANATOMY DEVELOPMENT OF THYMUS DR TAYYABA		PHYSIO BASOPHILS DR SABA LEEZA	PHYSIO Steps of Inflammation PROF.DR QAMER AZIZ		SDL	ANATOMY Introduction to lymphoid tissue and immune system DR HINA



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Week 3 (8.7.2024 - 12.7.2024)



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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 8-07-2024	ANATOMY TONSIL DR ANEELA	HISTOLOGY OF THYMUS AND TONSIL DR INAYAT	TEA BREAK	PHYSIO Function of macrophages in inflammation DR ADNAN	HISTOLOGY LYMPHOID TISSUE DR INAYAT	LUNCH AND PRAYERS	SDL	PRACTICAL: BIO: HEAT COAGULATION TEST DR FARHAN HISTO : Histology of thymus DR ANEELA PHYSIO: WBC COUNT DR M.ALI
TUESDAY 9-07-2024	PHYSIO Phagocytosis DR M.ALI	ISLAMIAAT		PATHO WBC disorders Dr M. Rizwan	PHYSIO LEUKOPENIA & LEUKEMIAS DR SABA LEEZA		SDL	PRACTICAL: BIO: HEAT COAGULATION TEST DR FARHAN HISTO : Histology of thymus DR ANEELA PHYSIO: WBC COUNT DR M.ALI
WEDNESDAY 10-07-2024	PHYSIO IMMUNITY AND ITS TYPES PROF DR QAMER AZIZ	MEDICINE LEUKEMIAS		RESEARCH	PHYSIO T-CELL / CELL-MEDIATED IMMUNITY DR M.ALI		SDL	PRACTICAL: BIO: HEAT COAGULATION TEST DR FARHAN HISTO : Histology of thymus DR ANEELA PHYSIO: WBC COUNT DR M.ALI
THURSDAY 11-07-2024	BIOCHEM IMMUNOGLOBULINS-I DR IFFAT	PHYSIO HUMORAL / B-CELL IMMUNITY DR ADNAN		BIOCHEM IMMUNOGLOBULINS-II DR IFFAT	PHYSIO ALLERGIES AND HYPERSENSITIVITY PROF DR QAMER AZIZ		SDL	PHYSIO IMMUNIZATION DR SABA ABRAR
FRIDAY 12-07-2024	PHYSIO O-A-B BLOOD TYPES-I DR M.ALI	PHYSIO O-A-B BLOOD TYPES-II DR ADNAN		ANATOMY LRC DR ANEELA/DR HINA/DR AYESHA	BIOCHEM VITAMIN E AND K Dr Farhan		SDL	PHYSIO RH SYSTEM IN BLOOD GROUPING-I & II DR SALEEMULLAH



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Week 4 (15.7.2024 - 19.7.2024)



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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 15-07-2024	PHYSIO HEMOSTASIS DR M.ALI	PEARLS	TEA BREAK	PHARMA Overview of pharmacology of blood coagulation disease	GYNAE	LUNCH AND PRAYERS	SDL	PRACTICAL: BIO: SATURATION TEST DR FARHAN HISTO : Histology of tonsils DR ANEELA PHYSIO: B.T&C.T DR M.ALI
TUESDAY 16-07-2024	PHYSIO COAGULATION DR SOBIA	ISLAMIAT		MEDICINE Clotting disorder I	EMBRYO ANAMOLIES DR TAYYABA		SDL	PRACTICAL: BIO: SATURATION TEST DR FARHAN HISTO : Histology of tonsils DR ANEELA PHYSIO: B.T&C.T DR M.ALI
WEDNESDAY 17-07-2024	PHYSIO THROMBOEMBOLIC CONDITIONS DR SABA ABRAR	SDL		CBL			SDL	PRACTICAL: BIO: SATURATION TEST DR FARHAN HISTO : Histology of tonsils DR ANEELA PHYSIO: B.T&C.T DR M.ALI
THURSDAY 18-07-2024	PATHO DISORDER OF PLATELETS Dr Rozina Khan	PHYSIO LYSIS OF BLOOD CLOTS DR ADNAN		MEDICINE Clotting disorder II	PHYSIO ANTI-COAGULANTS PROF DR QAMER AZIZ		SDL	FORMATIVE ASSESSMENT
FRIDAY 19-07-2024	BIOCHEM REVIEW CLASS DR IFFAT			ANATOMY REVIEW CLASS DR ANEELA/DR HINA/DR AYESHA			SDL	PHYSIOLOGY REVIEW CLASS
MONDAY 22.7.2024	BLOOD MODULE EXAM			BLOOD MODULE EXAM			BLOOD MODULE EXAM	



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REFERENCE BOOKS AND OTHER READING RESOURCES:

Gross Anatomy	<ul style="list-style-type: none">• BD Chaurasia's Handbook of GENERAL ANATOMY• NetterAtlas of Human Anatomy
Embryology	<ul style="list-style-type: none">• Langman's Embryology
Histology	<ul style="list-style-type: none">• Laiq Hussain Histology
Physiology	<ul style="list-style-type: none">• Guyton and Hall. Textbook of Medical Physiology, 13th Edition.• Ganong's Review of Medical Physiology, 24th Edition.
Biochemistry	<ul style="list-style-type: none">• Lippincott's Illustrated Reviews: Biochemistry• Text book of Medical Biochemistry M.N.Chatterjee and Rana shinde
Pathology	<ul style="list-style-type: none">• Robin`sBasicPathology-10thEdition
Pharmacology	<ul style="list-style-type: none">• <u>Essential</u>• Bertram G. Katzung. Basic and Clinical Pharmacology, 14th Edition. 2017.• Katzung and Trevor's pharmacology Examination and Board Review 11th Edition 2015.• <u>Recommended</u>• Lippincott's illustrated review of Pharmacology. 6th Edition. 2015.
Islamiat	<ul style="list-style-type: none">• Hameed ullah Muhammad, "Emergence of Islam" , IRI, Islamabad, "Muslim Conduct of State" and "Introduction to Islam".• Hussain Hamid Hassan, "An Introduction to the Study of Islamic Law" leaf Publication Islamabad, Pakistan.



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BLOOD MODULE

	<ul style="list-style-type: none">• Abdul QayyumNatiq, "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	<ul style="list-style-type: none">• Ilyas M, Public Health and Community Medicine, 7th Edition, Karachi, Pakistan, Time Publisher, 2007.• Maxcy-Rosenau-Last, public Health and Preventive Medicine, 13th Edition, USA, Prentice-Hall International Inc, 1992.• K.Park, Preventive and Social Medicine, 20th Edition, Jabalpur (India), M/s Banarsidas Bhanot, Publisher, 2009.
Medicine	<ul style="list-style-type: none">• Davidson`s Principles and Practice of Medicine-22nd Edition
Clinical Examination	<ul style="list-style-type: none">• Talley and O'Connor's Clinical Examination-6th Edition
Surgery	<ul style="list-style-type: none">• Bailey and Love Short Practice Of Surgery, 27th Edition• Last`s anatomy 12th edition• Snell`s anatomy by regions 10thedition
Research	<ul style="list-style-type: none">• Introduction to Research in Health Sciences- Stephen Polgar, Shane A. Thomas.• Biomedical Research Proposal Writing- Syed Sharaf Ali Shah, Zarfshan Tahir, RozinaKarmaliani.• Epidemiology - Leon Gordis; Fifth Edition.
PEARLs	<ul style="list-style-type: none">• https://www.mededportal.org/publication/10610/
PAEDS	<ul style="list-style-type: none">• Nelson Textbook of Pediatric 21st edition.



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BLOOD MODULE

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| | <ul style="list-style-type: none">• Textbook of Paediatrics (PPA) Fifth edition.• Basis of Pediatrics (Pervez Akbar Khan) 10th edition |
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ASSESSMENT METHODS:

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 their answer in an answer sheet.
- ❖ **Multiple Choice Questions (MCQs)** are used to assess objectives covered in each module.
 - A MCQ has a statement or clinical scenario followed by four options (
 - 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 12-25 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.



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- Un observed 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:
- **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: Quiz,viva,practical,assignment,small group activites such as CBL,online assessment and practical journal work.**
- 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% of attendance is
needed to sit in exam to sit for the**