



BAQAI MEDICAL COLLEGE
3rd YEAR MBBS (2024 – 2025)
(CVS & BLOOD MODULE - II)



BAQAI MEDICAL COLLEGE

3RD YEAR MBBS
SESSION 2024-25



CVS & BLOOD MODULE - II



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SPIRAL II – INTERGRATED CURRICULUM
CVS & BLOOD MODULE – II STUDY GUIDE
3rd MBBS (SESSION 2024- 2025)



BAQAI MEDICAL COLLEGE
BAQAI MEDICAL UNIVERSITY

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PREFACE

The landscape of medical education is evolving rapidly, embracing a shift from teacher-centered to student-centered learning approaches across undergraduate and postgraduate levels. In response to these advancements, this study guide for the integrated modular system has been meticulously crafted to align with these changes, following the SPICES model of curriculum development.

1. **Student-centered Approach:** The course organization, content, and activities are predominantly structured around student engagement and empowerment.
2. **Problem-Oriented Learning:** Case-based learning is integrated into our modules to foster problem-solving skills among students.
3. **Explicit Integration:** Basic sciences content is seamlessly integrated with pre-clinical and clinical subjects to provide a comprehensive understanding of medical concepts.
4. **Community Engagement:** Field visits to satellite clinics and community healthcare centers offer students firsthand exposure to community-related health issues.
5. **Elective Opportunities:** Students are encouraged to pursue electives within our institution and other institutes to broaden their learning experiences.
6. **Structured Program:** Our curriculum unfolds systematically, starting from foundational medicine concepts and encompassing all facets of medical sciences in Spiral integration.

Therefore, this study guide serves as a comprehensive resource, offering content-related information, guidance on learning strategies, curriculum management, and outlines of student activities. It is designed to support the undergraduate MBBS program in a multidimensional manner, facilitating holistic learning and development.

<i>Vision</i>	<i>Mission</i>
	
<i>Baqai Medical University</i>	
<p>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”.</p>	<p>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.</p>
<i>Baqai Medical College</i>	
<p>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.</p>	<p>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.</p>



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POLICIES AND PROCEDURES
Code of Conduct and Maintenance of Discipline of Students
Regulations Under section 25(e) BMU Act.1996

All University students shall be under the full disciplinary control of the University. No students shall be allowed to participate in politics. The action against the act of indiscipline shall include fines, debarring from attending class, and cancellation of admission, depending on the gravity of indiscipline.

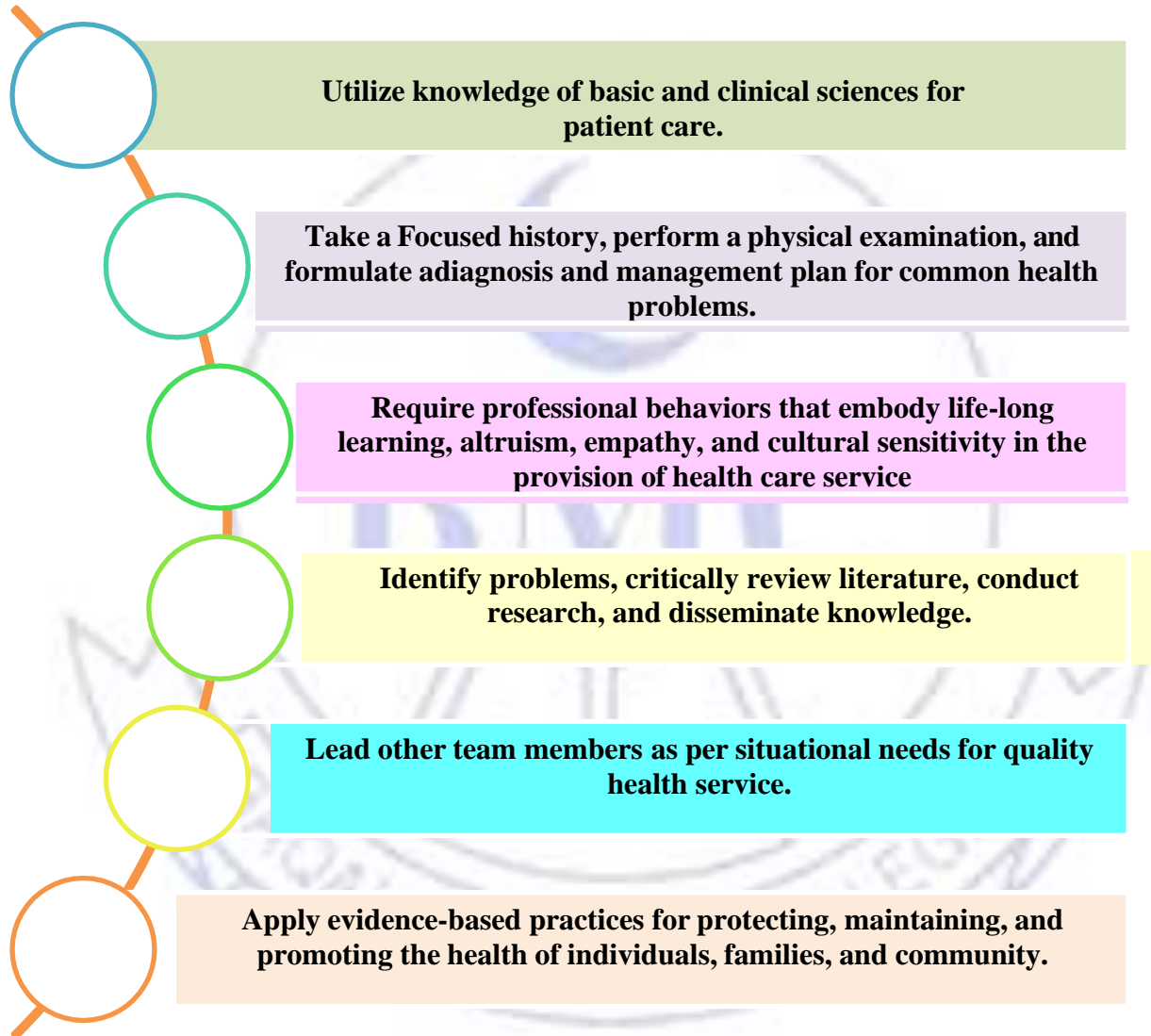
The following shall constitute acts of indiscipline for which action may be taken against the student or students:

- (a) Breach of any rule public morals, such as:
 - Use of indecent or filthy language;
 - Use of immodest dress;
 - Use of undesirable remarks or gestures; and
 - Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolence.
- (b) Defiance of authority
- (c) Action, defamatory of and derogatory to Islam
- (d) Immorality
- (e) Being found under the effect of an intoxicant or misuse of drugs including marijuana, LSD dope and other opioids.
- (f) False personation or giving false information or willful suppression of information, cheating or deceiving.
- (g) Inciting or staging a walk-out, a strike, or an unauthorized procession.
- (h) Shouting of slogans derogatory to the prestige of the University or the reputation of its officers or teachers.
- (i) Visiting without a pass place which are not to be visited without a pass.
- (j) Visiting places declared out of bounds for students.

Every student must carry his / her Identity Card which will be open to examination and will be demanded at the time of entrance to the various University Faculties and functions.

No student will be admitted to the facilities of the library, transport, or the canteen unless he /she is in possession of the Identity Card.

OUTCOMES OF MBBS CURRICULUM





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Module II

CVS & BLOOD
MODULE - II



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MODULAR COMMITTEE

1.	Dr. Sarah Azhar (Pathology)
2.	Dr. Nazia Jameel (Community Medicine)
3.	Dr. Faraz Saleem (Pharmacology)
4.	Dr. Rafay A. Siddiqui (Forensic Medicine)
5.	Ms. Maria Rahim (Research)
6.	Dr. Azra Shaheen (Behavioral Sciences)
7.	Dr. Dania Faisal (Medicine)
8.	Dr. S. Abdullah Bukhari (Surgery)



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MODULAR DURATION

Module Number	Module Name	Dates	Duration	Module In charge	Assessment Date & Pattern
5.	Cardio-vascular System & Blood Module	(24 th Sept – 15 th Nov, 2024)	8 weeks	Dr. Faraz Salim	15 th Nov. 2024 (Subject to minor changes) MCQs, SEQs & OSPE

ASSESSMENT TOOLS

1. Formative assessment
 - Quiz (face to face or online)
2. Summative assessment
 - MODULAR EXAM:
 - A single modular exam will be held at the end of module which will include all the subjects taught in the module.
 - Module will be assessed by MCQ, SEQ and OSPE / Viva.



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DEPARTMENT OF PATHOLOGY
LEARNING OBJECTIVES
(3rd year MBBS)

By the end of each Lecture the students of 3rd year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Atherosclerosis	Lecture # 1	1	Define Atherosclerosis, Arteriolosclerosis and Monckeberg Medial Calcific sclerosis. List the causes and risk factors of atherosclerosis. Describe the pathogenesis. List five common vessels affected by atherosclerosis. Identify the gross and microscopic morphological features of Atherosclerosis. List the complications of atherosclerosis	Prof. Dr. Nasima Iqbal
Vasculitis	Lecture # 2	1	Define Vasculitis. Classify vasculitis on the basis of size of blood vessels involved. Describe the pathogenesis. Identify the morphological features of different types of vasculitis.	Dr. M. Rizwan
Tumours of blood vessels	Lecture # 3	1	Classify benign and malignant tumors of blood vessels. List the morphological features of the tumors of blood vessels.	Dr. Maesa Sajeel
Hypertension	Lecture # 4	1	Define hypertension. List the causes and risk factors. Classify Hypertension. Discuss pathophysiology. List the consequences of hypertension on different organs of the body.	Dr. Sarah Azhar
IHD 1 (Angina pectoris)	Lecture # 5	1	Define IHD. List the different types of IHD. List the causes and risk factors of IHD. Define angina pectoris. List the three types of angina. Describe their pathogenesis.	Dr. Ghazal Irfan



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IHD II (Myocardial infarction)	Lecture # 6	1	Define Myocardial infarction. Differentiate between transmural and sub endocardial myocardial infarction. Corelate the morphological changes of myocardial infarction (MI) in co-relation to the changes in levels of cardiac markers List the complications.	Dr. M. Khan
Cardiac failure	Lecture # 7	1	Define cardiac failure. List the causes. List the types of cardiac failure. Discuss the pathogenesis of cardiac failure. Differentiate between the types of cardiac failure based on their pathophysiology, morphology and clinical features.	Dr. Munnazah Rashid
Congenital heart diseases Cyanotic & acyanotic heart disease.	Lecture # 8	1	List the various congenital anomalies of heart. Differentiate between Stenosis and Atresia. List the morphological features of Tetralogy of Fallot and coarctation of Aorta. Differentiate between cyanotic & a cyanotic heart diseases	Prof. Dr. Nasima Iqbal
Valvular heart diseases.	Lecture # 9	1	Describe the pathophysiology of Valvular Heart Disease. Discuss the clinical manifestations and diagnosis of valvular heart disease.	Dr. M. Rizwan
Cardiac Infections	Lecture # 10		Identify the pathogens responsible for Cardiovascular Infections. Discuss the etiopathogenesis of Endocarditis, Myocarditis and Pericarditis. Discuss their clinical features. Briefly describe their laboratory diagnosis and prevention.	Dr. Nadeem
Rheumatic Heart Disease & Infective Endocarditis	Lecture # 11	1	Define rheumatic fever and rheumatic heart disease. Discuss etio-pathogenesis, morphological & clinical features. Discuss the etio-pathogenesis, morphology and clinical features. Discuss the Duke's criteria of infective endocarditis.	Dr. Maeesa Sajeel
Myocarditis & Pericarditis Cardiac tumour	Lecture # 12	1	Define myocarditis. List the causes of myocarditis. Discuss the morphological features of myocarditis. Define pericarditis. List the causes of pericarditis. Discuss the morphological features of pericarditis. Classify cardiac tumours.	Dr. Sarah Azhar



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			List the morphological features of common cardiac tumors.	
Introduction to hematology	Lecture # 13	1	Classify the disorders of blood according to its components. Classify anemia	Dr. Ghazal Irfan
Iron deficiency anemia	Lecture # 14	1	Recall the nutritional and metabolic aspects of iron metabolism, including dietary iron, iron absorption, body iron distribution and transport. List the common causes of iron deficiency anemia. Describe the signs and symptoms of iron deficiency anemia. Outline the investigations of a patient with iron deficiency anemia. Discuss morphology of iron deficiency anemia	Dr. M. Khan
Megaloblastic anemia	Lecture # 15	1	List the common causes of macrocytic anemia. Summarize the nutritional and metabolic aspects of vitamin B12 and folate metabolism including dietary aspects, absorption, body distribution and transport. Describe the pathophysiology of megaloblastic anemia and the effect of vitamin B12 and folate deficiency on inhibition of DNA synthesis. Compare B12 and folate deficiency with respect to underlying causes, clinical manifestations, and laboratory diagnosis. Define pernicious anemia. Describe the morphology of megaloblastic anemia.	Dr. Munnazah Rashid
Sickle cell anemia	Lecture # 16	1	Define hemoglobinopathies. Explain the pathogenesis of sickle cell disease. Recognize the signs and symptoms of the different types of sickle cell crises in a patient of sickle cell disorder. Relate the clinical consequences of Sickle cell anemia with its pathology. Describe the laboratory diagnosis of sickle cell disease	Prof. Dr. Nasima Iqbal
G6PD deficiency & heredity spherocytosis	Lecture # 17	1	Summarize the etiological agents that are responsible for causing G6PD deficiency. Discuss the mechanism involved in the development of anemia in G6PD deficiency. Explain the clinical and morphological features of G6PD deficiency anemia. Discuss etiology and pathogenesis of HS. Identify the morphological and clinical features of Hereditary Spherocytosis.	Dr. M. Rizwan



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Immune hemolytic anemia	Lecture # 18	1	Classify immune hemolytic anemias. Compare warm autoimmune hemolytic anemias with cold autoimmune hemolytic anemias. Describe the pathological mechanism that leads to autoimmune hemolytic anemia. List the common drugs which may induce immune hemolytic anemia.	Dr. Maeesa Sajeel
Thalassemia	Lecture # 19	1	Define thalassemia. Classify thalassemia on clinical and genetics basis. Discuss how genetic alterations affect the normal physiology of red blood cell. Describe the pathophysiology and clinical consequences of Thalassemia. Differentiate between blood picture and clinical feature of Beta Thalassemia Minor & Major.	Dr. Sarah Azhar
Paroxysmal Nocturnal Hemoglobinuria & Aplastic anemia	Lecture # 20	1	Describe the pathogenesis of PNH. Explain the different clinical sequelae. Outline the laboratory findings List the etiological factors of acquired and inherited aplastic anemias. Discuss the pathophysiological mechanisms of anemia in bone marrow failure syndrome. Describe the characteristic peripheral blood and bone marrow features in aplastic anemia.	Dr. Ghazal Irfan
White blood cell disorders	Lecture # 21	1	Classify white blood cell disorders. Explain the common causes of increases and decreases in the number of the different leucocytes.	Dr. M. Khan
Infectious Mononucleosis	Lecture # 22	1	Describe the clinical signs and symptoms and diagnosis of infectious mononucleosis (IM). Recognize the important morphological features of IM	Dr. Munnazah Rashid
Acute Myeloid Leukemia	Lecture # 23	1	Define and classify myeloid neoplasm. Differentiate between leukemia and leukemoid reaction. Explain the pathogenesis, clinical features and morphology of AML. Discuss WHO classification of AML with the prognostic factors of AML	Prof. Dr. Nasima Iqbal
Chronic Myeloid Leukemia	Lecture # 24	1	Discuss the pathophysiology of Chronic Myeloid Leukemia (CML) and the mechanism of action of BCR–ABL fusion. Discuss clinical features of CML.	Dr. M. Rizwan



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			Discuss the natural history of CML as, chronic phase, accelerated phase and blast crisis. Identify the morphological features of CML on peripheral blood smear.	
Multiple Myeloma	Lecture # 25	1	Define and Classify plasma cell dyscrasia. Explain the pathology and clinical manifestations of multiple myeloma. Discuss pathogenesis of multiple myeloma. Identify the salient morphological feature of multiple myeloma.	Dr. Maeesa Sajeel
Chronic Lymphocytic Leukemia & Acute Lymphoblastic Leukemia	Lecture # 26	1	Discuss the pathogenesis, clinical features and morphology of CLL. Identify morphological features of CLL on peripheral blood smear. Explain the pathogenesis of ALL. Describe the clinical features. Discuss the laboratory findings of ALL	Dr. Sarah Azhar
Lymphoma	Lecture # 27	1	Define lymphoma. Classify Hodgkin's lymphoma. Discuss the pathogenesis and morphology of Hodgkin's lymphoma. Describe the staging of lymphoma and list the criteria used for staging. Classy of non-Hodgkin's lymphoma. Differentiate between Hodgkin's and Non-Hodgkin's Lymphoma.	Dr. Ghazal Irfan
Myelodysplasia	Lecture # 28	1	Define myelodysplasia and describe its etiology, pathogenesis and clinical signs and symptoms. Describe the morphological disturbances in the red blood cells, white blood cells and platelets of Myelodysplastic Syndrome and compare them to normal red blood cells, white blood cells and platelets respectively. Discuss salient morphological features of MDS	Dr. M. Khan
Myelo-proliferative Disorders	Lecture # 29	1	Classify Myeloproliferative disorders. Discuss pathogenesis, clinical features, and morphology of; Polycythemia Vera, Primary Myelofibrosis and Essential thrombasthenia	Dr. Munnazah Rashid
Thrombotic Micro-angiopathies	Lecture # 30	1	Define "Thrombotic Microangiopathies". List the conditions leading to Thrombotic Microangiopathies. Describe the main causes of HUS and discuss its predominance in children. Describe the mechanism of TTP	Prof. Dr. Nasima Iqbal



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Platelet disorders	Lecture # 31	1	List the congenital defects of platelets. Explain the common causes of thrombocytopenia. Describe the signs and symptoms of a patient with thrombocytopenia. Distinguish between acute ITP and chronic ITP	Dr. M. Rizwan
Coagulation disorders	Lecture # 32	1	Classify coagulation disorders. Discuss the pathophysiology and clinical features of Hemophilia and Von Willebrand Factor Complex. Describe the significance of coagulation profile	Dr. Maesa Sajeel

By the end of small group session, the students of 3rd. year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Atherosclerosis & Myocardial infarction	Tutorial # 1	2	Corelate the morphological changes of myocardial infarction (MI) in co-relation to the changes in levels of cardiac markers	Dr. Nadeem Umar Baqai
Vasculitis & Vascular Tumours	Tutorial # 2	2	Identify the gross & microscopic features	Mr. M. Rizwan
Iron deficiency anemia & Sickle cell anemia	Practical # 1	2	Identify the microscopic features	Dr. Tooba khan
Megaloblastic anemia	Practical # 2	2	Identify the microscopic features	Dr. M. Yasir Rishi
AML/CML	Practical # 3	2	Identify the microscopic features	Dr Rozina Khan
ALL/CLL	Practical # 4	2	Identify the microscopic features	Dr. Nadeem Umar Baqai
Blood transfusion & Blood banking	Tutorial # 5	2	List the blood components commonly used in blood banking Discuss the indications of each component. Classify blood transfusion reactions. Discuss the causes, Pathogenesis, Clinical features and diagnosis each blood transfusion reaction.	Dr. Munnazah Rashid
Formative assessment	Interactive session Followed by quiz and its feedback	2	Assess the comprehension of key concepts Identify any misconceptions Facilitate peer review Understand the immediate feedback by which they can reflect on their learning and make improvements.	Dr. M. Khan



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DEPARTMENT OF PHARMACOLOGY
LEARNING OBJECTIVES
(3rd year MBBS)

By the end of each Lecture the students of 3rd year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
DRUGS USED IN HYPERTENSION (I)	Lecture # 1	1	Define hypertension. Classify hypertension Explain pathophysiology of hypertension. Classify anti-hypertensive drugs according to different grades of hypertension. Classify anti-hypertensive drugs on the basis of their mechanism of action.	Prof. Dr. Nadeem
DRUGS USED IN HYPERTENSION (II)	Lecture # 2	1	Explain the mechanism of action of Propranolol (beta blockers) and Verapamil (calcium channel blocker). List the pharmacokinetic properties of these drugs. List indications, contraindications & adverse effects of these drugs	Prof. Dr. Asif
DRUGS USED IN HYPERTENSIVE EMERGENCY	Lecture # 3	1	Differentiate between Hypertensive Emergency & Hypertensive Urgency. Classify drugs used in Hypertensive Emergency. Explain the mechanism of action of Sodium Nitroprusside & Labetalol. List the pharmacokinetic properties of Sodium Nitroprusside and Labetalol. List indications, contraindications & adverse effects of these drugs	Dr. Faraz
DRUGS USED IN TREATMENT OF ANGINA PECTORIS	Lecture # 4	1	Define angina. Classify angina. Explain pathophysiology of angina. Classify anti-anginal drugs. Explain the mechanism of action of Nitrates. List the pharmacokinetic properties of Nitrates. List indications, contraindications & adverse effects of Nitrates.	Prof. Dr. Nadeem



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DRUGS USED IN HEART FAILURE I	Lecture # 5	1	Define heart failure. Classify heart failure. Explain pathophysiology of heart failure. Classify drugs used in treatment of heart failure on basis of their mechanism of action. Explain the mechanism of action of Captopril and Losartan List the pharmacokinetic properties of drugs List indications, contraindications & adverse effects of these drugs	Prof. Dr. Asif
DRUGS USED IN HEART FAILURE II	Lecture # 6	1	Recall the drugs used in treatment of heart failure on basis of their mechanism of action. Explain the mechanism of action of Digoxin List the pharmacokinetic properties of Digoxin List the common adverse effects and contraindications of Digoxin	Prof. Dr. Nadeem
DIURETICS I	Lecture # 7	1	Recall structure of nephron. Define diuretics. Classify diuretics. Explain mechanism of action of loop diuretics. List the pharmacokinetic properties of Furosemide List clinical uses of Furosemide List common adverse effects and contraindications of Furosemide	Prof. Dr. Nadeem
DIURETICS II	Lecture # 8	1	Recall the classification of diuretics. Explain mechanism of action of Mannitol, Hydrochlorothiazide and Spironolactone. List the pharmacokinetic properties of these drugs List clinical uses of these drugs List common adverse effects and contraindications of these drugs.	Dr. Urooj
ANTI ARRHYTHMICS (1)	Lecture # 9	1	Define arrhythmias. Classify arrhythmias. Classify anti-arrhythmic drugs on basis of mechanism of action. Explain mechanism of action of Lidocaine. List the pharmacokinetic properties of Lidocaine. List clinical uses, adverse effects and contraindications of Lidocaine. Describe the role of beta blockers in the treatment of various arrhythmias.	Prof. Dr. Nadeem
ANTIARRHYTHMICS 2	Lecture # 10	1	Recall the classification of anti-arrhythmic drugs on basis of mechanism of action. Explain mechanism of action of Amiodarone.	Prof. Dr. Asif



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			<p>List the pharmacokinetic properties of Amiodarone.</p> <p>List clinical uses of these drugs, adverse effects and contraindications of Amiodarone.</p> <p>Describe the role of Calcium channel blockers (Diltiazem, Verapamil) in the treatment of various arrhythmias.</p>	
ANTI HYPERLIPIDEMICS	Lecture # 11	1	<p>Recall types of hyperlipidemias.</p> <p>Classify anti hyperlipidemic.</p> <p>Explain mechanism of action of Statins, Niacin and Fibrates.</p> <p>List the pharmacokinetic properties of these drugs.</p> <p>List common adverse effects and contraindications of these drugs.</p> <p>List common drug-drug interactions associated with the use of Simvastatin.</p>	Dr. Sehrish
ANTI COAGULANTS	Lecture # 12	1	<p>Outline of coagulation cascade.</p> <p>Classify anticoagulants.</p> <p>Explain mechanism of action of Heparin and Warfarin.</p> <p>List the pharmacokinetic properties of these drugs</p> <p>List clinical uses of these drugs</p> <p>List common adverse effects and contraindications of these drugs</p> <p>List common drug-drug interactions associated with use of Heparin and Warfarin.</p>	Dr. Faraz
THROMBOLYTICS AND ANTIPLATELETS	Lecture # 13	1	<p>Classify anti-platelets and thrombolytics.</p> <p>Explain mechanism of actions of Aspirin, Clopidogrel, Alteplase and Streptokinase.</p> <p>List the pharmacokinetic properties of these drugs.</p> <p>List clinical uses of these drugs.</p> <p>List common adverse effects and contraindications of these drugs.</p>	Dr. Urooj
DRUGS USED IN BLEEDING DISORDERS	Lecture # 14	1	<p>List types of bleeding disorders.</p> <p>Classify drugs used for bleeding disorders.</p> <p>Explain mechanism of action of Vitamin K and Tranexamic acid.</p> <p>List the pharmacokinetic properties of these drugs</p> <p>List common adverse effects and contraindications of these drugs</p>	Dr. Humaira
DRUGS USED IN STROKE	Lecture # 15	1	<p>Define stroke.</p> <p>Explain pathophysiology of stroke.</p> <p>Classify stroke</p>	Dr. Sehrish



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			List the general guidelines of stroke management. list the drugs used to treat different types of strokes Describe the role of drugs used in the management of ischemic and hemorrhagic stroke	
DRUGS FOR ANEMIA	Lecture # 16	1	Classify anemia. Classify drugs used to treat anemia. Explain the role of Ferrous sulphate in the treatment of anemia. List the pharmacokinetic properties of these drugs. List common adverse effects and contraindications of these drugs.	Dr. Humaira

By the end of each Small Group Session (Tutorial) the students of 3rd year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
HYPERTENSION	Tutorial # 1	2	List the drugs used to treat pregnancy induced hypertension. Discuss the pharmacodynamics and pharmacokinetics of Methyldopa and Hydralazine. List clinical uses of these drugs List common adverse effects of these drugs Explain the pharmacological management of the given cases Write down the prescription of the given case.	Dr. Hina
ACUTE CORONARY SYNDROME	Tutorial # 2	2	Define Acute coronary syndrome. Explain the pharmacological management of the given case. Discuss the role of beta blockers and calcium channel blockers in the treatment of Angina.	Dr. Sehrish
CONGESTIVE HEART FAILURE	Tutorial 1 # 3	2	Discuss the role of ACE inhibitors, beta blockers and diuretics and in the treatment of Congestive heart failure. List the sign and symptoms of Digitalis toxicity.	Dr. Izrum



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			Explain the pharmacological management of Digitalis toxicity. Explain the pharmacological management of the given cases	
HYPERLIPIDEMIA	Tutorial # 4	2	Discuss the pharmacodynamics and pharmacokinetics of Bile acid-binding resins & Cholesterolabsorption inhibitors. Explain the pharmacological management of the given cases.	Dr. Sehrish
STROKE	Tutorial 1 # 5	2	List the drugs in the prevention ofstroke. Discuss the role of Alteplase and Mannitol in the treatment of stroke. Explain the pharmacological management of the given case.	Dr. Hina
BLEEDING DISORDERS	Tutorial # 6	2	Discuss the role of Clotting Factors and Desmopressin in the treatment ofbleeding disorders. Discuss their pharmacodynamics and pharmacokinetics. Explain the pharmacological management of the given cases.	Dr. Javeria
ANEMIA	Tutorial 1 # 7	2	Explain the role of Vitamin B12 (Cyanocobalamin) & Folic acid in thetreatment of anemia. Discuss their pharmacodynamics and pharmacokinetics. Write down the prescription of thegiven case.	Dr. Hina
CPR	Tutorial 1 # 8	2	Define Cardiopulmonary resuscitation List the drugs used in Cardiopulmonary resuscitation Discuss the role of Procainamide, Dopamine, and Sodium Nitroprusside in CPR. Explain pharmacokinetics and pharmacodynamics of these drugs. Explain the pharmacological management of the given case.	Dr. Sehrish
RHEUMATIC HEARTDISEASE	Tutorial 1 # 9	2	Define Rheumatic heart disease Discuss the sign and symptoms ofRheumatic heart disease. List the drugs used to treat Rheumaticheart disease. Discuss the role of Penicillin G in thetreatment of Rheumatic heart disease	Dr. Izrum



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DEPARTMENT OF FORENSIC MEDICINE
LEARNING OBJECTIVES
(3rd year MBBS)

By the end of each Lecture the students of 3rd year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Infanticide I	Lecture # 1	1	Estimate Intrauterine Age of Fetus / Infant (Intra-gestational development / Degree of Maturity of an Infant). Describe Signs of Live-Birth (Proof / Forensic Criteria of Live-Birth), Hydrostatic Test & other Tests for Separate Existence.	Dr. Jan e Alam
Infanticide II	Lecture # 2	1	Determine Cause of Death, ie. Acts of Commission & Acts of Omission Differentiate between Still-Birth & Dead-Born Fetuses	Dr. Jan e Alam

By the end of each small group session (practical) , the students of 3rd year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Corrosives II	Practical # 1	2	List the Uses & Misuses Differentiate between Organic and Inorganic acids Diagnose Carbolism & Carboluria	Dr. Muzammil Iqbal
Corrosives III	Practical # 2	2	Identify Fatal Doses & Fatal Periods of all these Describe Postmortem Appearances of all these Poisonings along with ML Importance	Dr. Jan e Alam



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Cardiac Poisons I	Practical # 3	2	List the Uses of all the above Cardiac Poisons. Describe the Mechanism of Action of all these. List the Treatment options for Acute Poisoning as well as Chronic Poisoning of all.	Dr. Jan e Alam
Cardiac Poisons II	Practical # 4	2	Diagnose the Chronic Signs & Symptoms of all. Diagnose the Acute Signs & Symptoms of all these Poisonings	Dr. Muzammil Iqbal
Vegetable Poisons I	Practical # 5	2	List the Uses of all the above Vegetable Poisons. Describe the Mechanism of Action of all these.	Dr. Muzammil Iqbal
Vegetable Poisons II	Practical # 6	2	List the Treatment options for Acute Poisoning as well as Chronic Poisoning of all. Diagnose the Chronic Signs & Symptoms of all.	Dr. Jan e Alam
Vegetable Poisons III	Practical # 7	2	Describe the Method of Sui Poisoning. Diagnose the Acute Signs & Symptoms of all these Poisonings	Dr. Muzammil Iqbal



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DEPARTMENT OF COMMUNITY MEDICINE

LEARNING OBJECTIVES

(3rd year MBBS)

By the end of each lecture, the students of 3rd year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Heart Disease Prevention	Lecture #1	01	Discuss the significance of heart disease as a global health concern Identify key risk factors contributing to heart disease. Describe the strategies for preventing heart disease	Prof. Dr. Nazia Jameel / Dr. Amara Altaf
Blood Donation and Transfusion Safety:	Lecture #2	01	Explain the importance of blood donation and its impact on healthcare. Identify the different blood components and their applications in medical treatments. Recognize the safety measures and protocols in blood donation and transfusion. Describe the role of individuals in promoting safe and voluntary blood donation.	Prof. Dr. Nazia Jameel / Dr. Amara Altaf
Anemia and Iron Deficiency	Lecture #3	01	Define anemia Discuss various types of anemia and their risk factors Identify the signs and symptoms of iron deficiency anemia Describe the preventive measures to reduce the risk of iron deficiency anemia	Prof. Dr. Nazia Jameel / Dr. Amara Altaf
Thalassemia Prevention	Lecture #4	01	Define thalassemia and its various types. Identify the genetic causes and risk factors for thalassemia. Describe the importance of thalassemia screening and genetic counseling. Discuss preventive measures for thalassemia.	Prof. Dr. Nazia Jameel / Dr. Amara Altaf



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DEPARTMENT OF RESEARCH
LEARNING OBJECTIVES
(3rd year MBBS)

By the end of each lecture, the students of 3rd year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
How to Enter and Analyze Data in SPSS	Small group discussion	2	Operate SPSS software for data entry and cleaning. Utilize SPSS software for data analysis	Group supervisors
Techniques of Effective Literature Search (EBM)	Lecture	1	To use sources to search, including texts, EBM resources, and Internet resources Identify the basic principles of searching	Ms. Maria Rahim
Retrieval of Full Text Papers (EBM)	Lecture	1	Cite commonly used national and international websites to retrieve medical literature Demonstrate the process of generating literature search Suggest methods other than online access	Ms. Maria Rahim



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DEPARTMENT OF MEDICINE & ALLIED
LEARNING OBJECTIVES
(3rd year MBBS)

By the end of each lecture, the students of 3rd. year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Acute coronary syndrome	Lecture # 1	1	Describe the pathophysiology of acute coronary syndrome. Identify the typical signs and symptoms of acute coronary syndrome Interpret the common ECG changes associated with acute coronary syndrome	Dr. Dania Faisal
Heart failure	Lecture # 2	1	Describe the pathophysiology of heart failure Distinguish the different classification and stages of heart failure	Dr. Dania Faisal
Anemia	Lecture # 3	1	Define anemia and describe pathophysiology. Enlist signs and symptoms of anemia. Classify anemia on the basis of morphology and etiology.	Dr. Dania Faisal



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DEPARTMENT OF SURGERY & ALLIED
LEARNING OBJECTIVES
(3rd year MBBS)

By the end of each lecture, the students of 3rd. year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Varicose veins: Anatomy, Clinical history and examination	Lecture # 1	1	To understand the nature and associated features of varicose veins To be familiar with CEAP classification	Dr. S. M. Abdullah Bukhari
Arterial stenosis and gangrene: Pathophysiology and Clinical features	Lecture # 2	1	To understand the nature and associated features of arterial stenosis and gangrene	Dr. Abdul Ghaffar
Acute arterial occlusion	Lecture # 3	1	To understand the nature and associated features of embolic occlusion To understand the nature and associated features of Acute limb ischemia To understand the nature and associated features of acute mesenteric ischemia	Dr. Danish



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DEPARTMENT OF GYNAECOLOGY & OBSTETRICS
LEARNING OBJECTIVES
(3rd year MBBS)

By the end of each lecture, the students of 3rd year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Peripartum cardiomyopathy	Lecture # 1	1	Define peripartum cardiomyopathy Classify cardiomyopathy Discuss the clinical features of peripartum cardiomyopathy	Dr. Nazish Ali
Patho-physiology of Anemia in pregnancy	Lecture # 2	1	Define anemia in pregnancy Classify anemia in pregnancy Discuss the pathophysiology of anemia in pregnancy List the clinical features of anemia in pregnancy	Dr. Naila Qamar



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DEPARTMENT OF BIOETHICS
LEARNING OBJECTIVES
(3rd year MBBS)

By the end of each lecture, the students of 3rd year MBBS will be able to:

TOPIC	MODE OF TEACHING	TIME (hours)	LEARNING OBJECTIVES	PROPOSED NAMES OF FACILITATORS
Bioethics of gene therapy	Interactive Lecture	2		Dr. Tooba Khan
Reproductive health	Interactive Lecture	2		Dr. Tooba Khan





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TENTATIVE*

TIME TABLES
FOR
CVS & BLOOD
MODULE – II

3rd year MBBS
Session 2024-25

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



BAQAI MEDICAL COLLEGE



24th September 2024 – 27th September 2024

WEEK 1	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 23-09-2024	NEUROSCIENCES MODULAR ASSESSMENT		TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	NEUROSCIENCES MODULAR ASSESSMENT
Tuesday 24-09-2024	Patho. Atherosclerosis					Patho (A) Pharma (B) For. Med. (C)
Wednesday 25-09-2024	Pharma. ANTI HYPERLIPIDEMICS	Patho. Vasculitis				Patho (B) Pharma (C) For. Med. (A)
Thursday 26-09-2024	Patho. Tumours of blood vessels	SDL				Patho (C) Pharma (A) For. Med. (B)
Friday 27-09-2024	Surg. Varicose veins: Anatomy, Clinical history and examination	For. Med Infanticide I				RESEARCH

LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2nd Floor, BLOCK B

PATHOLOGY TUTORIAL (Histopath Lab, 1 st floor, Block B)	Vasculitis & vascular tumours
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 nd floor, Block B)	Hyperlipidemia
FORENSIC MEDICINE (For. Med. Museum, 2 nd floor, Block B)	Corrosives II



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WEEK 2	30 th September 2024 – 04 th October 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 30-09-2024	Patho. Hypertension	Pharma. Drugs used in hypertension I	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C) SDL (D)
Tuesday 01-10-2024	Pato. IHD 1 (Angina pectoris)	Pharma. Drugs used in hypertension II				Patho (B) Pharma (C) For. Med. (D) SDL (A)
Wednesday 02-10-2024	Patho. IHD II (Myocardial infarction)	Pharma. Drugs used in hypertensive emergency				Patho (C) Pharma (D) For. Med. (A) SDL (B)
Thursday 03-10-2024	Pharma. Drugs used in treatment of angina pectoris	Com. Med. Heart Disease Prevention				Patho (D) Pharma (A) For. Med. (B) SDL (C)
Friday 04-10-2024	Med. Acute coronary syndrome	Surg. Acute arterial occlusion				BIOETHICS

LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2nd Floor, BLOCK B

PATHOLOGY TUTORIAL (Histopath Lab, 1 st floor, Block B)	Myocardial infarction	
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 nd floor, Block B)	Hypertension	
FORENSIC MEDICINE (For. Med. Museum, 2 nd floor, Block B)	Corrosives III	



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WEEK 3	07 th October 2024 – 11 th October 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 07-10-2024	For. Med Infanticide II	Surg. Arterial stenosis and gangrene: Pathophysiology and Clinical features	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C)
Tuesday 08-10-2024	Patho. Cardiac failure	Pharma. Drugs used in heart failure I				Patho (B) Pharma (C) For. Med. (A)
Wednesday 09-10-2024	Pharma. Drugs used in heart failure II	Med. Heart failure				Patho (C) Pharma (A) For. Med. (B)
Thursday 10-10-2024	Pharma. Diuretics I	Gynae. / Obs. Peripartum cardiomyopathy				Pharma Tutorial (A) Congestive heart failure SDL. (B)
Friday 11-10-2024	Patho. Congenital heart diseases Cyanotic & acyanotic heart disease.	Pharma. Diuretics II				Pharma Tutorial (B) Congestive heart failure SDL. (A)

LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2nd Floor, BLOCK B

PATHOLOGY TUTORIAL (Histopath Lab, 1 st floor, Block B)	Cardiac Tumours	
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 nd floor, Block B)	Acute coronary syndrome	
FORENSIC MEDICINE (For. Med. Museum, 2 nd floor, Block B)	Cardiac Poisons I	



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WEEK 4	14 th October 2024 – 18 th October 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 14-10-2024	Patho. Cardiac infections	Pharma. Anti arrhythmics i	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C) SDL (D)
Tuesday 15-10-2024	Patho. Rheumatic heart disease & infective endocarditis					Patho (B) Pharma (C) For. Med. (D) SDL (A)
Wednesday 16-10-2024	Patho. Myocarditis & Pericarditis	Pharma. Anti arrhythmics ii				Patho (C) Pharma (D) For. Med. (A) SDL (B)
Thursday 17-10-2024	CBL (CVS)					Patho (D) Pharma (A) For. Med. (B) SDL (C)
Friday 18-10-2024	Patho. Introduction to hematology	Patho. G6pd deficiency & heredity spherocytosis				Pathology Formative assessment
LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2nd Floor, BLOCK B						
PATHOLOGY TUTORIAL (Histopath Lab, 1 st floor, Block B)		Rheumatic heart disease				
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 nd floor, Block B)		Rheumatic heart disease				
FORENSIC MEDICINE (For. Med. Museum, 2 nd floor, Block B)		Cardiac poisons II				



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WEEK 5	21 st October 2024 – 25 th October 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 21-10-2024	Patho. Iron deficiency anemia	Pharma. DRUGS FOR ANEMIA	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C) SDL (D)
Tuesday 22-10-2024	Com. Med. Anemia and Iron Deficiency	Gynae. / obs. Patho-physiology of Anemia in pregnancy				Patho (B) Pharma (C) For. Med. (D) SDL (A)
Wednesday 23-10-2024	Med. Anemia	Patho. Megaloblastic anemia				Patho (C) Pharma (D) For. Med. (A) SDL (B)
Thursday 24-10-2024	Patho. Sickle cell anemia	Patho. Thalassemia				Patho (D) Pharma (A) For. Med. (B) SDL (C)
Friday 25-10-2024	Com. Med. Thalassemia Prevention	Patho. WBC Disorders				Patho. Lect. Immune hemolytic Anemia & Paroxysmal Nocturnal Hemoglobinuria & Aplastic anemia

LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2nd Floor, BLOCK B

PATHOLOGY PRACTICAL (Hematology Lab, 2 nd floor, Block B)	Iron deficiency anemia & sickle cell anemia, megaloblastic anemia	
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 nd floor, Block B)	Anemia	
FORENSIC MEDICINE (For. Med. Museum, 2 nd floor, Block B)	Vegetable poisons i	



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WEEK 6	28 th October 2024 – 01 st November 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 28-10-2024	Patho. Infectious mononucleosis	Pharma. Anti coagulants	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	EBM
Tuesday 29-10-2024	Patho. Acute myeloid leukemia	Pharma. Thrombolytics and antiplatelets				Patho (A) Pharma (B) For. Med. (C) SDL (D)
Wednesday 30-10-2024	Pharma. Drugs used in stroke	Patho. Chronic myeloid leukemia				Patho (B) Pharma (C) For. Med. (D) SDL (A)
Thursday 31-10-2024	Patho. Multiple Myeloma	SDL				Patho (C) Pharma (D) For. Med. (A) SDL (B)
Friday 01-11-2024	Pathology Formative assessment					Patho (D) Pharma (A) For. Med. (B) SDL (C)
LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2nd Floor, BLOCK B						
PATHOLOGY PRACTICAL (Hematology Lab, 2 nd floor, Block B)		AML / CML				
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 nd floor, Block B)		Stroke				
FORENSIC MEDICINE (For. Med. Museum, 2 nd floor, Block B)		Vegetable Poisons II				



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WEEK 7	04 th November 2024 – 08 th November 2024					
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00
	Lect I	Lect II				Practical / Tutorial
Monday 04-11-2024	CBL (Hematology)		TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	BIOETHICS
Tuesday 05-11-2024	SDL	Pharma. Drugs used in bleeding disorders				Patho (A) Pharma (B) For. Med. (C) SDL (D)
Wednesday 06-11-2024	Patho. Chronic Lymphocytic Leukemia & Acute Lymphoblastic Leukemia	SDL				Patho (B) Pharma (C) For. Med. (D) SDL (A)
Thursday 07-11-2024	SDL	Patho. Lymphoma				Patho (C) Pharma (D) For. Med. (A) SDL (B)
Friday 08-11-2024	Patho. Myelo-proliferative Disorders	Patho. Myelodysplasia				Patho (D) Pharma (A) For. Med. (B) SDL (C)
LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2nd Floor, BLOCK B						
PATHOLOGY PRACTICAL (Hematology Lab, 2 nd floor, Block B)		ALL / CLL				
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 nd floor, Block B)		Bleeding disorders				
FORENSIC MEDICINE (For. Med. Museum, 2 nd floor, Block B)		Vegetable Poisons III				



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WEEK 8	11 th November 2024 – 15 th November 2024								
	8.30 - 9.30	9.30 - 10.30	10.30-10.45	10.45-01.45	01.45-02.00	02.00 - 04.00			
	Lect I	Lect II	TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Practical / Tutorial			
Monday 11-11-2024	SDL	Patho. Thrombotic Micro-angiopathies				TEA BREAK	CLINICS / WARDS	NAMAZ & LUNCH BREAK	Patho (A) Pharma (B) For. Med. (C)
Tuesday 12-11-2024	SDL	Patho. Platelet disorders							Patho (B) Pharma (C) For. Med. (D)
Wednesday 13-11-2024	SDL	Patho. Coagulation disorders							Patho (C) Pharma (D) For. Med. (A)
Thursday 14-11-2024	Revision	Revision							Revision
Friday 15-11-2024	MODULE ASSESSMENT		MODULE ASSESSMENT						

LECTURES: Will be conducted in PHARMACOLOGY LECT. HALL, 2nd Floor, BLOCK B

PATHOLOGY TUTORIAL (Hematology Lab, 2 nd floor, Block B)	Blood Banking & Blood Transfusion	
PHARMACOLOGY TUTORIAL (Pharma Lect Hall, 2 nd floor, Block B)	CPR	
FORENSIC MEDICINE (For. Med. Museum, 2 nd floor, Block B)		



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