



## HAEMATOLOGY MODULE OF 4<sup>TH</sup> YEAR MBBS (SESSION 2024-25)

**DURATION: 29 DAYS**

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>02-01-2025 Thursday</b>							
08.00-8.45	1	Evaluating Patients with orbital lesions				EYE	45 mins
08.45-9.30	2	Basic concepts of Community Medicine and Public Health				Community medicine	45 min
09.30-10.15	3	Normal haematopoiesis & Overview of various Lab investigations		<ul style="list-style-type: none"> <li>Students should have understanding of normal haematopoietic development</li> <li>Should be familiar with the terms of leucopenia, leukocytosis, lymphocytosis, lymphopenia and their causes.</li> <li>A clear understanding of basic hematological investigations</li> </ul>	Robbins Pathology	Pathology	45 min
<b>Hospital work</b>				<b>10:30 a.m. to 2:30 p.m.</b>			
<b>03-01-2025 Friday</b>							
08.00-8.45	4.					Anaesthesia	45 mins
08.45-9.30	5.	Anemia in Pregnancy				Gynaecology	45 min
9.30-0.15	6.	Anemias: their classification, anemias of blood loss, hemolytic anemias due to membrane disorders		Students should be able to define & classify anemias, know their underlying pathology and have clear concept of anemias due to membrane disorders	Robbins Pathology	Pathology	45 min
<b>Hospital work</b>				<b>10:30 a.m. to 12:00 p.m.</b>			

<b>04-01-2025 Saturday</b>							
8.00-8.45	7.	Surgical management of condition arising from hemolytic anemias				Surgery	45 min
8.45-9.30	8.	Inherited Hemolytic Anemias		<ul style="list-style-type: none"> <li>• Red cell membrane defect</li> <li>• Hb. Abnormalities</li> <li>• Thalassemia</li> <li>• Sickle cell syndrome</li> <li>• Metabolic disorders (G6PD deficiency)</li> </ul>		Paediatric Medicine	45 min
9.30-10.15	9.	Hemolytic anemias due to enzymopathies & haemoglobinopathies		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of G6PD and sickle cell disease.	Robbins Pathology	Pathology	45 min
<b>Hospital work</b>				<b>10:30 a.m. to 2:30 p.m.</b>			
<b>06-01-2025 Monday</b>							
8.00-8.45	10.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	11.	Thalassemia		Genetic counseling and special care of patient		Gynecology	45 min
9.30-10.15	12.	Thalassemias		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of Beta and alpha thalassemia .	Robbins Pathology	Pathology	45 min
<b>Hospital work</b>				<b>10:30 a.m. to 2:30 p.m.</b>			

<b>07-01-2025 Tuesday</b>							
8.00-8.45	13.	PNH and immune haemolytic anaemias		Students should be able to differentiate between different types of immune haemolytic anaemias and should have a clear understanding of their pathogenesis, clinical presentation and lab diagnosis	Robbins Pathology	Pathology	45 min
8.45-9.30	14	Acquired Hemolytic Anemias		<ul style="list-style-type: none"> <li>• Autoimmune</li> <li>• Drug induced</li> <li>• Alloimmune</li> <li>• Non immune</li> <li>• Mechanical</li> </ul>		Paediatric Medicine	45 min
9.30-10.15	15	Medical indications of splenectomy				surgery	45 min
<b>Hospital work</b>				<b>10:30 a.m. to 2:30 p.m.</b>			
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
<b>08-01-2025 Wednesday</b>							
8.00-8.45	16.	Vertigo				ENT	45 min
8.45-9.30	17.	Orbital Lesions				Eye	45 min
9.30-10.15	18.	Anaemias of diminished erythropoiesis – Iron deficiency anaemia		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of iron deficiency anemia	Robbins Pathology	Pathology	45 min
<b>Hospital work</b>				<b>10:30 a.m. to 2:30 p.m.</b>			
<b>09-01-2025 Thursday</b>							
8.00-8.45	20.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	21.	Deficiency Anemias		<ul style="list-style-type: none"> <li>• Iron deficiency</li> </ul>		Medicine	45 min

		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		<ul style="list-style-type: none"> <li>• Vit.B 12</li> <li>• Folic acid</li> </ul>			
9.30-10.15	22.	Megaloblastic anaemia		Student should have a clear concept of pathogenesis , clinical presentation and lab diagnosis of megaloblastic anaemia	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 a.m. to 2:30 p.m.</b>							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
<b>10-01-2025 Friday</b>							
8.00-8.45	23.	Fluid & electrolyte abnormalities and interpretation of ABG'S in surgical patients				Surgery	45 min
8.45-9.30	24.	Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease	Robbins Pathology	Pathology	45 min
9.30-10.15	25.	Anemias due to Bone marrow failure (Etiology, Clinical features ,Lab diagnosis & Management)		❖ Aplastic anemia Bone marrow transplantation Etiology, Clinical features ,Lab diagnosis & Management		Oncology	
<b>Hospital work 10:30 to 12:00 p.m.</b>							
<b>11-01-2025 Saturday</b>							
8.00-8.45	26.	Personality Development & impact on Patient interaction			Integrating Behavioral Sciences in Healthcare (Asma Humayun) Brig Mowadat Rana book on behavioral sciences	Behavioral sciences	45 min
8.45-9.30	27					Gynecology	45 mins

9.30-10.15	28.	Acute myeloid leukemia,		Students should be able to classify acute myeloid leukemia, should have a clear concept of their pathogenesis and related investigations.	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 a.m. to 2:30 p.m.</b>							
<b>13-01-2025 Monday</b>							
8.00-8.45	29.	Otosclerosis				ENT	45 min
8.45-9.30	30.	Health & Disease				Community medicine	45 min
9.30-10.15	31.	Acute lymphoid leukemia		Students should be able to classify acute lymphoid leukemia, should have a clear concept of their pathogenesis and related investigations	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 to 2:30 p.m.</b>							
<b>15-01-2025 Wednesday</b>							
8.00-8.45	32.	Surgical ethics		To understand: <ul style="list-style-type: none"> <li>• The importance of autonomy in good surgical practice</li> <li>• The moral and legal boundaries and practical difficulties of informed consent</li> <li>• Good practice in making decisions about the withdrawal of life-sustaining treatment</li> <li>• The importance and boundaries of confidentiality in surgical practice</li> <li>• The importance of appropriate regulation in surgical research</li> <li>• The importance of rigorous training and maintenance of good practice standards</li> </ul>	Surgery	Surgery	45 min
8.45-9.30	33.	Retinoblastoma				Eye	45 min

9.30-10.15	34.	Lymphoid neoplasms . Their classification , B cell NHL (1)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B cell NHL and special emphasis on CLL	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 to 2:30 p.m.</b>							
<b>16-01-2025 Thursday</b>							
8.00-8.45	35.	Health & Disease				Community medicine	45 min
8.45-9.30	35.	B and T cell NHL (2)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B and T cell NHL	Robbins Pathology	Pathology (Dr. Sobia)	45 min
9.30-10.15	36.	Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
<b>Hospital work 10:30 to 2:30 p.m.</b>							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
<b>17-01-2025 Friday</b>							
8.00-8.45	37.	Hodgkin's lymphoma		Should be familiar with its type, clinical and morphological features.	Robbins Pathology	Pathology	45 min
		Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
8.45-9.30	38.	Management of Lymphoproliferative disorders		Management of Lymphoproliferative diseases including adverse effects & complications of Chemotherapy		Oncology	45 min
<b>Hospital work 10:30 to 12:00 p.m.</b>							
<b>18-01-2025 Saturday</b>							
08:00 – 8:45	39.	Health and Disease				Community Medicine	
08:45 – 9:30	40	Multiple Myeloma				Pathology	

9:30 – 10:15	41	Multiple myeloma and Gamma globulin pathis				Medicine	
<b>Hospital work 10:30 to 02:30 p.m.</b>							
<b>20-01-2025 Monday</b>							
8.00-8.45	42.	Critically ill surgical patient				Surgery	45 min
8.45-9.30	43.	Glomus tumor				ENT	45 min
9.30-10.15	44.	Myeloproliferative disorders- Chronic myeloid leukemia Multiple myeloma		Students should be able to classify various myeloproliferative disorders, should be able to discuss in detail chronic myeloid leukaemia	Robbins Pathology	Pathology (Dr. Arsala)	45 min
<b>Hospital work 10:30 to 2:30 p.m.</b>							
<b>21-01-2025 Tuesday</b>							
8.00-8.45	45.	Myeloproliferative disorders- polycythemia Vera, Essential thrombocythemia and myelofibrosis		students should be able to describe various myeloproliferative disorders and their lab diagnosis	Robbins Pathology	Pathology	45 min
8.45-9.30	46.	Myeloproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	
9.30-10.15	47.	Management of Myeloproliferative Disorders		❖ Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
<b>Hospital work 10:30 to 12:00 a.m.</b>							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
<b>22-01-2025 Wednesday</b>							
8.00 – 8.45	48	Health & Disease				Community Medicine	45 min
8.45 – 9.30	49.	Myelodysplastic syndrome		Student should have a clear concept of myelodysplasia and how to investigate it.	Robbins Pathology	Pathology (Dr. Rafeeda)	45 min
9.30 – 10.15	50.	Myelodysplasia& Stem cell Transplantation		Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min

HOSPITAL WORK 10.30-2.30 p.m.							
23-01-2025 Thursday							
8.00 – 8.45	51.	Immunology				Community medicine	45 min
8.45 9.30	52.	Overview of Bleeding diathesis, its investigation and interpretation		Students should be familiar with various bleeding diathesis and should be able to interpret the findings of related investigations	Robbins Pathology	Pathology	45 min
9.30 – 10.15	53.	Principles of controlling hemorrhage and different tools of trade				Surgery	45 min
HOSPITAL WORK 10.30-12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
24-01-2025 Friday							
8.00-8.45	54.	Medicines in Ophthalmology				Eye	
8.45-9.30	55.	Topic not suggested by relevant Department				Anaesthesia	
9.30-10.15	56.	Thrombocytopenia		Students should be able to classify and investigate various types of thrombocytopenias	Robbins Pathology	Pathology	45 min
Hospital work				10:30 to 12:00 p.m.			
25-01-2025 Saturday							
8.00-8.45	57.	Topic not suggested by relevant Department		•		Behavioral Sciences	45 min
8.45-9.30	58.	Inherited and acquired platelet defects.		Students should be able to classify and investigate various types of platelet functional disorders especially Bernard Soulier and Glanzman 's thrombocytopenia	Robbins Pathology	Pathology	
9.30-10.15	59.	Platelet disorders		<ul style="list-style-type: none"> <li>• ITP</li> <li>• Platelet functional disorders</li> </ul>		Paediatric MEDICINE	
Hospital work				10:30 to 02:30 p.m.			

27-01-2025 Monday							
8.00-8.45	66.	Disseminated intra vascular coagulation.		Students should have a clear concept of pathogenesis, clinical presentation and lab investigation of disseminated intra vascular coagulation	Robbins Pathology	Pathology	45 min
8.45-9.30	67.	DIC		Etiology, clinical manifestations, lab workup, differential diagnosis		Medicine	45 min
9.30-10.15	68.	Management of a surgical patient with coagulation disorders & Bleeding disorders				Surgery	45 min
<b>Hospital work</b>					<b>10:30 to 02:30 p.m.</b>		
28-01-2024 Tuesday							
8.00-8.45	69.	Thrombophilia		Pathogenesis		Pathology	45 min
8.45-9.30	70.	Thrombosis , Thrombophilia		(Etiology, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	45 min
9.30-10.15	71.	Stroke		Epidemiology, Risk factors, Etiology & Pathogenesis of Ischemic stroke		Neurology	45 min
<b>Hospital work</b>					<b>10:30 to 12:00 p.m.</b>		
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
29-01-2024 Wednesday							
8.00-8.45	72.	Blood grouping and Blood products and components		Students should develop comprehensive understanding of various blood groups, how to make various components of blood and its products.	Robbins Pathology	Pathology	45 min
8.45-9.30	73.	Blood products used in different hematological conditions				surgery	45 min
9.30-10.15	74.	immunology				Community Medicine	45 min
<b>Hospital work</b>					<b>10:30 to 2:30 p.m.</b>		

30-01-2025 Thursday							
88.00-8.45	75.	Vascular malformations				Plastic surgery	45 mins
8.45 – 9.30	76.	Stroke		Investigations and management		Neurology	45 mins
9.30-10.15	77	Blood transfusion reactions ( 1 )		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12: 00 to 02:30 p.m.
31-01-2025 Friday							
8.00 - 8.45	78	Topics not suggested by relevant Department				Community Medicine	45 mins
8.45 – 9.30	79	Topics not suggested by relevant Department				Anaesthesia	45 mins
9.30 – 10.30	80	Blood transfusion reactions ( 2 )		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
Hospital work 10:30 a.m. to 12:00 p.m.							
01-02-2025 Saturday							
8.00-8.45	81.	Ocular Side effect of systemic medications				Eye	45 min
8.45-9.30	82.	Von willibrand Disease				Pathology	
9.30-10.15	83.	Immunology				Community Medicine	45 min
Hospital work 10.30-02.30 p.m.							

- 1) All lectures will be conducted in Maqbool Ahmad Block KEMU.
- 2) To check the contents of these lectures, kindly open the email inbox (Request for Departmental Focal Persons & H.O.D's)

**DR. SAFEENA SARFRAZ,**  
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Assistant Professor,  
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KEMU, Lahore.

**PROF. DR. FAIZA BASHIR,**  
Chairperson,  
Department of Pathology,  
KEMU, Lahore.



## HAEMATOLOGY MODULE OF 4<sup>TH</sup> YEAR MBBS (SESSION 2024-25)

**DURATION: 02-01-2025 to 01-02-2025**

**DURATION**

**27 DAYS**

**CONTACT HOURS: 43**

**Lectures 85 = + Practical's + Hospital stay = ----**

**CREDIT HOURS: 03**

**TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics**

**OBJECTIVES**

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of-. The interrelated clinical aspects of Medicine, Surgery, Eye, Ear, Nose and Throat and Gynecological problems will also be covered. By the end of the module, the students should be able to:

**1. Describe:**

**2. Discuss the Pathological and all clinical aspects of:**

TIME	COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>02-01-2025 Thursday</b>						
08.00-8.45	1	Evaluating Patients with orbital lesions			EYE	45 min
08.45-9.30	2	Basic concepts of Community Medicine and Public Health			Community medicine	45 min

09.30-10.15	3	Normal haematopoiesis & Overview of various Lab investigations		<ul style="list-style-type: none"> <li>Students should have understanding of normal haematopoietic development</li> <li>Should be familiar with the terms of leucopenia, leukocytosis, lymphocytosis, lymphopenia and their causes.</li> <li>A clear understanding of basic hematological investigations</li> </ul>	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 a.m. to 2:30 p.m.</b>							
<b>03-01-2025 Friday</b>							
08.00-8.45	4.					Anaesthesia	45 mins
08.45-9.30	5.	Anemia in Pregnancy				Gynaecology	45 min
9.30-0.15	6.	Anemias: their classification, anemias of blood loss, hemolytic anemias due to membrane disorders		Students should be able to define & classify anemias, know their underlying pathology and have clear concept of anemias due to membrane disorders	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 a.m. to 12:00 p.m.</b>							
<b>04-01-2025 Saturday</b>							
8.00-8.45	7.	Surgical management of condition arising from hemolytic anemias				Surgery	45 min
8.45-9.30	8.	Inherited Hemolytic Anemias		<ul style="list-style-type: none"> <li>Red cell membrane defect</li> <li>Hb. Abnormalities</li> <li>Thalassemia</li> <li>Sickle cell syndrome</li> <li>Metabolic disorders (G6PD deficiency)</li> </ul>		Paediatric Medicine	45 min
9.30-10.15	9.	Hemolytic anemias due to enzymopathies & haemoglobinopathies		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of G6PD and sickle cell disease.	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 a.m. to 2:30 p.m.</b>							

06-01-2025 Monday							
8.00-8.45	10.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	11.	Thalassemia		Genetic counseling and special care of patient		Gynecology	45 min
9.30-10.15	12.	Thalassemias		Student should have a clear understanding of pathogenesis, clinical presentation and lab diagnosis of Beta and alpha thalassemia .	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 a.m. to 2:30 p.m.</b>							
07-01-2025 Tuesday							
8.00-8.45	13.	Medical indications of splenectomy				surgery	45 min
8.45-9.30	14	Acquired Hemolytic Anemias		<ul style="list-style-type: none"> <li>• Autoimmune</li> <li>• Drug induced</li> <li>• Alloimmune</li> <li>• Non immune</li> <li>• Mechanical</li> </ul>		Paediatric Medicine	45 min
9.30-10.15	15.	PNH and immune haemolytic anaemias		Students should be able to differentiate between different types of immune haemolytic anaemias and should have a clear understanding of their pathogenesis , clinical presentation and lab diagnosis	Robbins Pathology	Pathology	
<b>Hospital work 10:30 a.m. to 2:30 p.m.</b>							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
08-01-2025 Wednesday							
8.00-8.45	16.	Vertigo				ENT	45 min
8.45-9.30	17.	Orbital Lesions				Eye	45 min

9.30-10.15	18.	Anaemias of diminished erythropoiesis – Iron deficiency anaemia		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of iron deficiency anemia	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 a.m. to 2:30 p.m.</b>							
<b>09-01-2025 Thursday</b>							
8.00-8.45	20.	Basic concepts of Community Medicine and Public Health				Community Medicine	45 min
8.45-9.30	21.	Deficiency Anemias (Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		<ul style="list-style-type: none"> <li>• Iron deficiency</li> <li>• Vit.B 12</li> <li>• Folic acid</li> </ul>		Medicine	45 min
9.30-10.15	22.	Megaloblastic anaemia		Student should have a clear concept of pathogenesis , clinical presentation and lab diagnosis of megaloblastic anaemia	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 a.m. to 2:30 p.m.</b>							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
<b>10-01-2025 Friday</b>							
8.00-8.45	23.	Fluid & electrolyte abnormalities and interpretation of ABG'S in surgical patients				Surgery	45 min
8.45-9.30	24.	Anemias due to Bone marrow failure (Etiology, Clinical features ,Lab diagnosis & Management)		❖ Aplastic anemia Bone marrow transplantation Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
9.30-10.15	25.	Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of Aplastic anaemia, Pure red cell aplasia and anemia of chronic disease	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 to 12:00 p.m.</b>							
<b>11-01-2025 Saturday</b>							
8.00-8.45	26.	Personality Development & impact on Patient interaction			Integrating Behavioral Sciences in	Behavioral sciences	45 min

					Healthcare (AsmaHumayun) Brig MowadatRana book on behavioral sciences		
8.45-9.30	27					Gynecology	45 mins
9.30-10.15	28.	Acute myeloid leukemia,		Students should be able to classify acute myeloid leukemia, should have a clear concept of their pathogenesis and related investigations.	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 a.m. to 2:30 p.m.</b>							
<b>13-01-2025 Monday</b>							
8.00-8.45	29.	Otosclerosis				ENT	45 min
8.45-9.30	30.	Health & Disease				Community medicine	45 min
9.30-10.15	31.	Acute lymphoid leukemia		Students should be able to classify acute lymphoid leukemia, should have a clear concept of their pathogenesis and related investigations	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 to 2:30 p.m.</b>							
<b>14-01-2025 Tuesday</b>							
8.00-8.45	32.	Surgical ethics		To understand: • The importance of autonomy in good surgical practice • The moral and legal boundaries and practical difficulties of informed consent • Good practice in making decisions about the withdrawal of life-sustaining treatment • The importance and boundaries of confidentiality in surgical practice • The importance of appropriate regulation in surgical research	Surgery	Surgery	45 min

				• The importance of rigorous training and maintenance of good practice standards			
8.45-9.30	33.	Retinoblastoma				Eye	45 min
9.30-10.15	34.	Lymphoid neoplasms. Their classification , B cell NHL (1)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B cell NHL and special emphasis on CLL	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 to 12:00 p.m.</b>							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
<b>15-01-2025 Wednesday</b>							
8.00-8.45	35.	Health & Disease				Community medicine	45 min
8.45-9.30	35.	B and T cell NHL (2)		Student should have a clear understanding of pathogenesis , clinical presentation and lab diagnosis of B and T cell NHL	Robbins Pathology	Pathology	45 min
9.30-10.15	36.	Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
<b>Hospital work 10:30 to 2:30 p.m.</b>							
<b>16-01-2025 Thursday</b>							
8.00-8.45	37.	Hodgkin's lymphoma		Should be familiar with its type, clinical and morphological features.	Robbins Pathology	Pathology	45 min
		Lymphoproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)		Medicine	45 min
8.45-9.30	38.	Management of Lymphoproliferative disorders		Management of Lymphoproliferative diseases including adverse effects & complications of Chemotherapy		Oncology	45 min
<b>Hospital work 10:30 to 12:00 p.m.</b>							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM

Hospital work								10:30 to 12:00 p.m.	
17-01-2025 Friday									
08:00 – 8:45	39.	Health and Disease					Community Medicine		
08:45 – 9:30	40	Multiple Myeloma					Pathology		
9:30 – 10:15	41	Multiple myeloma and Gamma globulin pathis					Medicine		
Hospital work								10:30 to 12:30 p.m.	
18-01-2025 Saturday									
8.00-8.45	42.	Critically ill surgical patient					Surgery		45 min
8.45-9.30	43.	Glomus tumor					ENT		45 min
9.30-10.15	44.	Myeloproliferative disorders- Chronic myeloid leukemia Multiple myeloma		Students should be able to classify various myeloproliferative disorders, should be able to discuss in detail chronic myeloid leukaemia	Robbins Pathology		Pathology		45 min
Hospital work								10:30 to 2:30 p.m.	
20-01-2025 Monday									
8.00-8.45	45.	Myeloproliferative disorders-polycythemia Vera, Essential thrombocythemia and myelofibrosis		students should be able to describe various myeloproliferative disorders and their lab diagnosis	Robbins Pathology		Pathology		45 min
8.45-9.30	46.	Myeloproliferative disorders		(Definition, Classification, Clinical manifestations, Lab workup, Differential diagnosis)			MEDICINE		
9.30-10.15	47.	Management of Myeloproliferative Disorders		❖ Etiology, Clinical features ,Lab diagnosis & Management			Oncology		45 min
Hospital work								10:30 to 02:30 p.m.	
21-01-2025 Tuesday									
8.00 – 8.45	48	Health & Disease					Community Medicine		45 min
8.45 – 9.30	49.	Myelodysplastic syndrome		Student should have a clear concept of myelodysplasia and how to investigate it.	Robbins Pathology		Pathology		45 min

9.30 – 10.15	50.	Myelodysplasia& Stem cell Transplantation		Etiology, Clinical features ,Lab diagnosis & Management		Oncology	45 min
<b>HOSPITAL WORK 10.30-12.00 p.m.</b>							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
<b>22-01-2025 Wednesday</b>							
8.00 – 8.45	51	Immunology				Community medicine	45 min
8.45 9.30	52.	Overview of Bleeding diathesis, its investigation and interpretation		Students should be familiar with various bleeding diathesis and should be able to interpret the findings of related investigations	Robbins Pathology	Pathology	45 min
9.30 – 10.15	53.	Principles of controlling hemorrhage and different tools of trade				Surgery	45 min
<b>HOSPITAL WORK 10.30-02:30 p.m.</b>							
<b>23-01-2025 Thursday</b>							
8.00-8.45	54.	Medicines in Ophthalmology				Eye	
8.45-9.30	55.	Topic not suggested by relevant Department				Anaesthesia	
9.30-10.15	56.	Thrombocytopenia		Students should be able to classify and investigate various types of thrombocytopenias	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30 to 12:00 p.m.</b>							
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
<b>Hospital work 10:30 to 12:00 p.m.</b>							
<b>24-01-2025 Friday</b>							
8.00-8.45	57.	Topic not suggested by relevant Department				Behaviorial Sciences	45 min

8.45-9.30	58.	Inherited and acquired platelet defects.		Students should be able to classify and investigate various types of platelet functional disorders especially Bernard Soulier and Glanzman 's thrombosthenia	Robbins Pathology	Pathology	
9.30-10.15	59.	Platelet disorders		<ul style="list-style-type: none"> <li>• ITP</li> <li>• Platelet functional disorders</li> </ul>		Paediatric MEDICINE	
<b>Hospital work 10:30 to 02:30 p.m.</b>							
<b>25-01-2025 Saturday</b>							
8.00-8.45	66.	Disseminated intra vascular coagulation.		Students should have a clear concept of pathogenesis, clinical presentation and lab investigation of disseminated intra vascular coagulation	Robbins Pathology	Pathology	45 min
8.45-9.30	67.	DIC		Etiology, clinical manifestations, labwork up, differential diagnosis		Medicine	45 min
9.30-10.15	68.	Management of a surgical patient with coagulation disorders & Bleeding disorders				Surgery	45 min
<b>Hospital work 10:30 to 02:30 p.m.</b>							
<b>27-01-2025 Monday</b>							
8.00-8.45	69.	Thrombophilia/ Idiopathic thrombocytopenic purpura		Pathogenesis		Pathology	45 min
8.45-9.30	70.	Thrombosis , Thrombophilia		(Etiology, Clinical manifestations, Lab workup, Differential diagnosis)		MEDICINE	45 min
9.30-10.15	71.	Stroke		Epidemiology, Risk factors, Etiology & Pathogenesis of Ischemic stroke		Neurology	45 min
<b>Hospital work 10:30 to 12:00 p.m.</b>							
<b>28-01-2025 Tuesday</b>							
8.00-8.45	72.	Blood grouping and Blood products and components		Students should develop comprehensive understanding of various blood groups, how to make various components of blood and its products.	Robbins Pathology	Pathology	45 min

8.45-9.30	73.	Blood products used in different hematological conditions				surgery	45 min
9.30-10.15	74.	immunology				Community Medicine	45 min
<b>Hospital work</b>				<b>10:30 to 12:00 p.m.</b>			
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
<b>Hospital work</b>				<b>10:30 to 2:30 p.m.</b>			
<b>29-01-2025 Wednesday</b>							
88.00- 8.45	75.	Vascular malformations				Plastic surgery	45 mins
8.45 – 9.30	76.	Stroke		Investigations and management		Neurology	45 mins
9.30-10.15	77	Blood transfusion reactions ( 1 )		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
<b>Hospital work</b>				<b>10:30 a.m. to 02:30 p.m.</b>			
<b>30-01-2025 Friday Thursday</b>							
8.00 - 8.45	78	Topics not suggested by relevant Department				Community Medicine	45 mins
8.45 – 9.30	79	Topics not suggested by relevant Department				Anesthesia	45 min
9.30 – 10.30	80	Blood transfusion reactions ( 2 )		Students should be able to describe in detail various blood transfusion reactions	Robbins Pathology	Pathology	45 min
<b>Hospital work</b>				<b>10:30 a.m. to 12:00 p.m.</b>			
		PRACTICAL		Pathology	Community Medicine	Respective departments	12:00-2:30PM
<b>31-01-2025 Friday</b>							
8.00-8.45	81.	Ocular Side effect of systemic medications				Eye	45 min
8.45-9.30	82.	Von willibrand Disease				Pathology	
9.30-10.15	83.	Immunology				Community Medicine	45 min
<b>Hospital work</b>				<b>10:30 a.m. to 2:30 p.m.</b>			

01-02-2025 Saturday							
8.00-8.45	84	Revision				Community Medicine	45 min
8.45-9.30	85	Revision				Behavioral Sciences	45 min
9.30-10.15	86	Revision				Pathology	45 in

**All lectures will be conducted in Maqbool Ahmad Block KEMU.**

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		<b>Hospital work</b>		<b>10:30am - 12.00pm</b>			
12.10-2.00pm		PRACTICAL		Batch B: Small group discussions Batch C: Pharmacology Batch A: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
<b>DAY 3 16-01-2025 (THURSDAY)</b>							
8.00-8.45am	7	Drug interactions			Basic and clinical pharmacology 12 <sup>th</sup> edition katzung	Pharmacology	45 min
8.45-9.30am	8	Gram negative bacteria		E.COLI Pseudomonas klebsiella		ENT	45 min
9.30-10.15am	9	Cell signaling pathways and activation		Signaling pathways, their activation, cell-matrix interactions		Pathology	45 min
		<b>Hospital work</b>		<b>10:30am - 12.00pm</b>			
12.10 -02.00pm		PRACTICAL		Batch C: Small group discussions Batch A: Pharmacology Batch B: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
<b>DAY 4 17-01-2025(FRIDAY)</b>							
8.00-8.45 am	10.	Medical certification & reporting certification of death, birth,illness,fitness				Forensic medicine	45 min
8.45-9.30am	11.	Factors affecting doses & action of drugs				Pharmacology	45 min
9.30-10.15am	12.	Cellular responses to injury &Adaptations of cellular growth and differentiation		Students should know the difference between Hypertrophy, Hyperplasia,	Robbins Pathology	Pathology	45 min
10.30-12.00pm		Practical		Batch A: Small group discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
<b>DAY 5 18-01-2025 (SATURDAY)</b>							
8.00-8.45am	13.	Tissue diagnosis				Surgery	45 min
8.45-9.30am	14.	Common infections in ear, nose & throat		MTB Corneybacteriumdiphtheriae		ENT	45 min

9.30-10.15am	15.	Symptoms of CVS		CASE SCENARIOS: Chest pain (angina, MI) Cardiac failure DVT + atherosclerosis		Medicine	45 min
10:15-11:00am	16.			Forensic Medicine			45 min
11:00-11:45am	17.			Pathology			45 min
11:45-12:30am	18.			Pharmacology			45 min
12.45—2.30pm		Practical		Batch B: Small group discussions Batch C: Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
<b>DAY 6 20-01-2025 (MONDAY)</b>							
8.00-8.45am	19.	Symptoms of Gastroenterology		CASE SCENARIOS: Pain abdomen Diarrhea (acute, chronic) Upper GI bleed		Medicine	
8.45-9.30am	20.					Orthopedics	45 min
9.30-10.15am	21.	Cell injury & cell disease		Necrosis, mechanism of cells injuries and clinic-pathological		Pathology	45 min
<b>Hospital work 10:30am - 12.00pm</b>							
12.10-2.00pm		Practical		Batch C : Small group discussions Batch A : Pharmacology Batch B : Medicolegal/autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
<b>DAY 7 21-01-2025 (TUESDAY)</b>							
8.00-8.45am	22.	Adaptations of cellular growth and differentiation		Atrophy and Metaplasia		Pathology	45 min
8.45-9.30am	23.	Drug dependence			Basic and clinical pharmacology 12 <sup>th</sup> edition katzung	Pharmacology	45 min
9:30-10:15am	24.	Cell injury and Cell death		Necrosis, Mechanisms of cell injury and clinic pathological correlation		Pathology	45 min

<b>Hospital work 10:30am - 12.00pm</b>							
12.10-02.00pm		PRACTICAL		BATCH A: Small group discussions Pathology Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
<b>DAY 8 22-01-2025 (WEDNESDAY)</b>							
8.00-8.45am	25.	Adverse drug affects and drug allergies			Basic and clinical pharmacology 12 <sup>th</sup> edition katzung	Pharmacology	45 min
8.45-9.30am	26.	Importance of dying declaration and its recording				Forensic medicine	45 min
9.30-10.15am	27.	Cell injury		Reversible and irreversible injury and mechanisms	Robbins Pathology	Pathology	45 min
<b>Hospital work 10:30am - 12.00pm</b>							
12.10-2.00pm		PRACTICAL		Batch B : Small group discussions Batch C : Pharmacology Batch A : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
<b>DAY 9 23-01-2025 (THURSDAY)</b>							
8.00-8.45am	28.	Medicolegal systems				Forensic medicine	45 min
8.45-9.30am	29.	Pharmacogenetics & Bioassay			Basic and clinical pharmacology	Pharmacology	45 min
9.30-10.15am	30.	Morphological alterations in cell injury		CASEOUS, FIBRINOID, COAGULATIVE necrosis, Liquefactive necrosis, gangrene		Pathology	45 min
<b>Hospital work 10:30am - 12.00pm</b>							
12.10-2.00pm		PRACTICAL		Batch C : Small group discussions Pathology Batch A: Pharmacology Batch B : Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

DAY 10 24-01-2025 (FRIDAY)							
8.00-8.45am	31.	Law in relation to mental health				Forensic medicine	45 min
8.45-9.30am	32.	Introduction to ANS			Basic and clinical pharmacology 12 <sup>th</sup> edition katzung	Pharmacology	45min
9.30-10.15am	33.	APOPTOSIS		MECHANISM		Pathology	45 min
10.30-12.00pm		PRACTICAL		Batch A: Small group discussions Batch B: Pharmacology Batch C: Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 11 25-01-2025 (SATURDAY)							
8.00-8.45am	34.	Sterilization				Surgery	45 min
8.45-9.30am	35.	<b>Intracellular accumulations</b>		CALCIFICATION, PIGMENTATION	Robbins Pathology	Pathology	45 min
9.30-10.15am	36.	Cholinergic receptors			Basic and clinical pharmacology 12 <sup>th</sup> edition katzung	Pharmacology	45 min
10:15-11:00am	37.					Pharmacology	45 min
11:00-11:45am	38					Forensic Medicine	45 min
11:45-12:30pm	39.					EYE	45 min
12.45-2.30pm		Practical		<b>Batch B:</b> Small group discussions <b>Batch C:</b> Pharmacology practical <b>Batch A:</b> Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 12 27-01-2025 (MONDAY)							
8.00-8.45am	40.	PMDC;R IGHTS & Obligations				Forensic medicine	45 min
8.45-9.30am	41.	<b>Genes and human diseases</b>				Pathology	45 min
9.30-10.15am	42.	Blood transfusion				surgery	45 min

Hospital work 10:30am - 12.00pm							
12.10—2.00pm		PRACTICAL		<b>Batch C:</b> Small group discussions <b>Batch A :</b> Pharmacology practical <b>Batch B :</b> Medico legal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 13 28-01-2025 (TUESDAY)							
8.00-8.45aM	43.	Professional misconduct, professional confidentiality and exceptions				Forensic Medicine	45 min
8.45-9.30am	44.	Skeletal muscle relaxants				Pharmacology	45 min
9.30-10.15am	45.	<b>Mendelian disorders &amp; Chromosomal disorders</b>				Pathology	45 min
Hospital work 10:30am - 12.00pm							
12.10- 2.00pm		PRACTICAL		<b>Batch A:</b> Small group discussions <b>Batch B:</b> Pharmacology practical <b>Batch C:</b> Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 14 29-01-2024 (WEDNESDAY)							
8.00-8.45am	46.	Adrenoreceptors agonists			Basic and clinical pharmacology 12 <sup>th</sup> edition katzung	Pharmacology	45 min
8.45-9.30am	47.	<b>Single gene disorders &amp; Multigenic disorders</b>				PATHOLOGY	45 min
9.30-10.15am	48.	Medical negligence				Forensic medicine	45 min
Hospital work 10:30am - 12.00pm							
12.10-2.00pm		PRACTICAL		<b>Batch B:</b> Small group discussions <b>Batch C:</b> Pharmacology practical <b>Batch A:</b> Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	
DAY 15 30-01-2025 (THURSDAY)							
8.00-8.45am	49.	<b>Diagnostic methods for genetic diseases</b>		PCR, DNA sequencing	Robbins pathology	Pathology	
8.45-9.30am	50.	Adrenoreceptors antagonists & ergot alkaloids			Basic and clinical pharmacology 12 <sup>th</sup> edition katzung	Pharmacology	

9.30-10.15am	51.	Consent; importance in major n minor procedures				Forensic medicine	
		<b>Hospital work</b>		<b>10:30am - 12.00pm</b>			
12.10-2.00pm		PRACTICAL		<b>Batch C:</b> Small group discussions <b>Batch A:</b> Pharmacology practical <b>Batch B :</b> Medicolegal/ autopsy/ analytical/serology/ radiological lab	Class divisible in three batches	Respective departments	

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**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**(Blood Vessels & Heart)**  
**Starting Date 03-02-2025 to 15-02-2025**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
03-02-25	Mon	Pathology	Gynecology	Eye	Hospital Work 10:30a.m. – 02:30p.m.		
04-02-25	Tue	Pathology	Pathology	Medicine	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
05-02-25	Wed	<b>Holiday</b>					
06-02-25	Thu	Surgery	ENT	Neurosurgery			
07-02-25	Fri	Cardiac Surgery	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
08-02-25	Sat	Medicine	Community Medicine	Anesthesia	Hospital Work 10:30a.m. – 02:30p.m.		
10-02-25	Mon	Pathology	Medicine	Obstetrics	Hospital Work 10:30a.m. – 02:30p.m.		
11-02-25	Tue	Eye	Surgery	Anesthesia	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
12-02-25	Wed	Surgery	ENT	Neurosurgery	Hospital Work 10:30a.m. – 02:30p.m.		
13-02-25	Thu	ENT	Community Medicine	Eye	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
14-02-25	Fri	Pathology	Cardiology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
15-02-25	Sat	Pathology	Cardiology	Community Medicine			

**All lectures will be conducted in Maqbool Ahmad Block of KEMU.**

**DR. SAFEENA SARFRAZ**

Incharge 4<sup>th</sup> year MBBS

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**PROF. DR. FAIZA BASHIR**

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Department of Pathology

King Edward Medical University, Lahore.



**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**(HAEMATOLOGY Module)**  
**Starting Date 02-01-2025 to 01-02-2025**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
02-01-25	Thu	Eye	Community Medicine	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
03-01-25	Fri	Anesthesia	Gynecology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
04-01-25	Sat	Surgery	Pediatric Medicine	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
06-01-25	Mon	Community Medicine	Gynecology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
07-01-25	Tue	Surgery	Pediatric Medicine	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
08-01-25	Wed	ENT	Eye	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
09-01-25	Thu	Community Medicine	Medicine	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
10-01-25	Fri	Surgery	Oncology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
11-01-25	Sat	Behavioral Sciences	Gynecology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
13-01-25	Mon	ENT	Community Medicine	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
14-01-25	Tue	Surgery	Eye	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
15-01-25	Wed	Community Medicine	Pathology	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
16-01-25	Thu	Pathology	Medicine	Oncology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
17-01-25	Fri	Community Medicine	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
18-01-25	Sat	Surgery	ENT	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
20-01-25	Mon	Pathology	Medicine	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		

21-01-25	Tue	Community Medicine	Pathology	Oncology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
22-01-25	wed	Community Medicine	Pathology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
23-01-25	Thu	Eye	Anesthesia	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
24-01-25	Fri	Behavioral Sciences	Pathology	Pediatric Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
25-01-25	Sat	Pathology	Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
27-01-25	Mon	Pathology	Medicine	Neurology	Hospital Work 10:30a.m. – 02:30p.m.		
28-01-25	Tue	Pathology	Surgery	Community Medicine	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
29-01-25	Wed	Plastic Surgery	Neurology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
30-01-25	Thu	Community Medicine	Anesthesia	Pathology	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.)	Practical 12:45p.m. – 2:30p.m.
31-01-25	Fri	Eye	Pathology	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
01-02-25	Sat	Community Medicine	Behavioral Sciences	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		

**All lectures will be conducted in old auditorium of KEMU.**

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**KEMU 4<sup>TH</sup> YEAR MBBS 2025**  
**1<sup>ST</sup> INTERMODULE (February, 2025)**

DURATION            12 DAYS (17-02-2025 to 01-03-2025)

CONTACT HOURS    Lectures 36 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS        2

TEACHING METHODOLOGIES    Lectures/Practicals/ small group discussion/clinics

TOTAL LECTURES:

Community medicine:

Ophthalmology    :

ENT:

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>Monday, 17-02-2025</b>							
8:00-8:45	1.	Topic not specified yet			1.	ENT	45 min
8:45-9:30	2.	Cataract				Ophthalmology	45 min
9:30-10:15	3.	Biostatistics		Measures of Central tendency (Mean, mode, median)	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
<b>Hospital work</b>				<b>10.30-2.30</b>			
<b>Tuesday, 18-02-2025</b>							
8:00-8:45	4.	CATARACT		1.	1.	Ophthalmology	45 min
8:45-9:30	5.	Biostatistics		2. Measure of dispersion (Range, Standard deviation, Standard error) 3. Normal curve	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	6.	Topic not specified yet		•		ENT	45 min
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
<b>Wednesday, 19-02-2025</b>							
8:00-8:45	7.	GLAUCOMA			1.	OPHTHALMOLOGY	45 min
8:45-9:30	8.	Biostatistics		1. Methods of data presentation (tables, graphs and diagrams)	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	
9:30-10:15	9.	Topic not specified yet				Community Medicine	45 min
	10	HOSPITAL WORK					10.30-2.30

<b>Thursday, 20-02-2025</b>							
8:00-8:45	11	Cataract		▪		EYE	45 min
8:45-9:30	12	Biostatistics		Collection and registration of vital events in Pakistan, sources of health related statistics	Maxcy Public Health and Preventive Medicine Park's Text Bood of Preventive and social Medicine.	COMMUNITY MEDICINE	45 min
9:30-10:15	13	Topic not specified yet				ENT	45 min
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
<b>Friday, 21-02-2025</b>							
8:00-8:45	14	Biostatistics		Interpretation of data: 1. Z test 2. Chi-square test	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	15	Biostatistics		Interpretation of data: ▪ t-test ▪ dependent sample t test, ▪ independent sample t test ▪ one sample test	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	16	Glaucoma				Ophthalmology	45 min
<b>Hospital work</b>				<b>10.30-12.00</b>			
<b>Saturday, 22-02-2023</b>							
8:00-8:45	17	Topic not specified yet		1.	1.	ENT	45 min
8:45-9:30	18	Glaucoma				Ophthalmology	45 min
9:30-10:15	19	Biostatistics		Interpretation of data: 2. ODDS ratio 3. Regression Analysis	2. Maxcy Public Health and Preventive Medicine 3. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
<b>Hospital work</b>				<b>10.30-2.30</b>			
<b>Monday, 24-02-2025</b>							
8:00-8:45	20	<b>Biostatistics</b>		Sampling and its various techniques	1. Maxcy Public Health and Preventive Medicine	Community Medicine	45 min

					2. Park's Text Book of Preventive and Social Medicine		
8:45-9:30	21	Glaucoma				Ophthalmology	45 min
9:30-10:15	22	Topic not specified yet				ENT	45 min
<b>Hospital work 10.30-02.30</b>							
<b>Tuesday 25-02-2025</b>							
8:00-8:45	23	<b>Information, Education and Communication</b>		1. Concept, Aims and objectives 2. Approaches used in public health 3. Contents, principles and stages of health education	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	24	Scleritis				Ophthalmology	45 min
9:30-10:15	25	Topic not specified yet				ENT	45 min
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
<b>Wednesday 26-02-2025</b>							
8:00-8:45	26	Topic not specified yet				ENT	45 min
8:45-9:30	27	Topic not specified yet				Community Medicine	45 min
9:30-10:15	28	Topic not specified yet				Ophthalmology	45 min
<b>Thursday, 27-02-2025</b>							
8:00-8:45	29					ENT	
8:45-9:30	30					EYE	
9:30-10:15	31	Biostatics				Community Medicine	
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Community Medicine Lecture (12:00 – 12:45pm)	Practical 12.45—02.30pm
<b>Friday, 28-02-2025</b>							

8:00-8:45	32					EYE	
8:45-9:30	33					Community Medicine	
9:30-10:15	34					ENT	
<b>Saturday, 01-03-2025</b>							
8:00-8:45	35					ENT	
8:45-9:30	36					EYE	
9:30-10:15	37					Community Medicine	

**Note: All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore**

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**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**1<sup>st</sup> Intermodule (17<sup>th</sup> February, 2025 to 1<sup>st</sup> March, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
17-02-2025	Mon	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
18-02-2025	Tue	Ophthalmology	Community Medicine	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
19-02-2025	Wed	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
20-02-2025	Thu	EYE	Community Medicine	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
21-02-2025	Fri	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:00 p.m.		
22-02-2025	Sat	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
24-02-2025	Mon	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30p.m.		
25-02-2025	Tue	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
26-02-2025	Wed	ENT	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:00 p.m.		
27-02-2025	Thu	ENT	EYE	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
28-02-2025	Fri	EYE	Community Medicine	ENT	Hospital Work 10:30a.m. – 12:00 p.m.		
01-03-2025	Sat	ENT	EYE	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		

**All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.**

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## KEMU 4<sup>th</sup> Year MBBS 2025

### MODULE

### DISEASES OF BLOOD VESSELS AND HEART

DURATION 10 DAYS (03-02-2025 to 15-02-2025)

CONTACT HOURS Lectures 45 =33.75 hours (2.1) + Practical's + Hospital stay = 31.45 Hours (0.6)

CREDIT HOURS 2.7

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

#### OBJECTIVES

The course is designed primarily for 4<sup>th</sup> year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of blood vessels and Heart. The interrelated clinical aspects of Medicine, Surgery, Eye, Ear, Nose and Throat and Gynecological problems will also be covered. By the end of the module, the students should be able to:

1. Describe:

Vascular structure and cardiac structure

2. Discuss the Pathological and all clinical aspects of:

- Atherosclerosis
- Hypertensive vascular diseases
- Vasculitis
- Vascular tumors
- Ischemic heart diseases
- Valvular heart diseases
- Cardiomyopathies
- Cardiac tumors

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>Monday 03-02-2025</b>							
08:00-08:45	1	Atherosclerosis		Pathogenesis -Complications of Atherosclerosis		Pathology	45 min
08:45-09:30	2	Changes in physiology of CVS and blood vessels in Pregnancy				Gynecology	45 min
09:30-10:15	3	Clinical features of vascular diseases of Retina and orbit		To know clinical relevance of CVS changes in pregnancy To know how this modifies routine and emergency care of pregnant patients		EYE	45 min
<b>Hospital work 10.30-2.30 p.m.</b>							
<b>Tuesday 04-02-2025</b>							
08:00-08:45	4.	Vacuities		<ul style="list-style-type: none"> <li>• Buerger disease</li> <li>• Behcet disease</li> <li>• Granulomatous polyangitis</li> </ul>		Pathology	45 min
08:45-09:30	5.	Valvular Heart Disorder				Pathology	45 min
09:30-10:15	6.	inherited connective tissue disorders				Medicine	45 min
<b>Hospital work 10.30-12:00</b>							
		PRACTICAL		LECTURE PRACTICAL SMALL GROUP DISCUSSIONS	Community Medicine Lecture 12:00 to 12:45	Respective departments	12:45- 2:30
<b>05-02-2025 (Holiday)</b>							
<b>Wednesday 06-02-2025</b>							
08:00-08:45	7.	Limb ischemia		Acute & chronic		Surgery	45 min
08:45-09:30	8.	Vascular disorders of ENT				ENT	45 min
09:30-10:15	9.	Vascular lesions of brain				Neurosurgery	45 min
<b>Hospital work 10.30-2.30 p.m.</b>							
<b>Friday 07-02-2025</b>							
08:00-08:45	10.	Aneurysms		Clinical presentation and management		Cardiac Surgery	45 min
08:45-09:30	11	Dissecting Aneurysms		Abdominal Thoracic aortic		Pathology	45 min

09: 30-10: 15	12	Vasculitis		<ul style="list-style-type: none"> <li>• Polyarteritis nodosa</li> <li>• Takayasu arylteritis</li> <li>• Kawasaki arteritis</li> </ul>		pathology	45 min
		HOSPITAL WORK		<b>Respective Departments 10.30-12.00 p.m.</b>			
<b>Saturday 08-02-2025</b>							
08:00-08: 45	13.	Coronary artery disease and peripheral vascular disease		Pathophysiology and clinical features		Medicine	45 min
08: 45-09: 30	14.	Environmental/ social factors contributing towards Cardiovascular diseases (1)		Five levels of prevention for hypertension		Community Medicine	
09: 30-10: 15	15.	Anesthesia in cardiovascular diseases		Perioperative management of hypertensive patient		Anesthesia	45 min
<b>HOSPITAL WORK 10.30-2.30 p.m.</b>							
<b>Monday 10-02-2025</b>							
08:00-08: 45	16	Cardiomyopathies		Pathological aspects		Pathology	45 min
08: 45-09: 30	17	Cardiomyopathies		Clinical aspects		Medicine	45 min
09: 30-10: 15	18	Cardiac diseases in pregnancy		-To know common cardiac diseases in pregnant pts. -Effects of pregnancy on preexisting cardiac disease -Antenatal and labor management of pregnant patients		Obstetrics	45 min
<b>Hospital work 10:30-12:00</b>							
<b>Tuesday 11-02-2025</b>							
08:00-08: 45	19	Hypertensive retinopathy				Eye	45 min
08: 45-09: 30	20	Cardiac contusion & cardiac tamponade				SURGERY	45 min
09: 30-10: 15	21	Anesthesia in Ischemic heart disease		Assessment & management, Anaesthetic goals		Anesthesia	45 min
<b>Hospital work 10:30-12:00 p.m.</b>							
		PRACTICAL		PRACTICAL SMALL GROUP DISCUSSIONS	Community Medicine Lecture 12:00-12:45	Respective Departments	12.00—2.30
<b>Wednesday 12-02-2025</b>							
08:00-08: 45	22.	Varicose veins & DVT				Surgery	45 min
08: 45-09: 30	23.	Chemodectoma & cavernous sinus thrombosis				ENT	45 min

09: 30-10: 15	24.	Management of Intra Cranial hematoma		Extradural, Subdural, Intracerebral, intraventricular (causes, manifestation & management)		Neurosurgery	45 min
<b>Hospital work 10.30-2.30 p.m.</b>							
<b>Thursday 13-02-2025</b>							
08:00-08: 45	25.	vertigo				ENT	45 min
08: 45-09: 30	26.	Prevention of CVA				Community medicine	45 min
09: 30-10: 15	27.	Vascular lesions of the Orbit				Eye	45 min
<b>Hospital work 10:30-12:00 p.m.</b>							
		PRACTICAL		Pathology & Community Medicine	Community Medicine Lecture 12:00 – 12:45	Respective departments	12.00—2.30
<b>Friday 14-02-2025</b>							
08:00-08: 45	28.	ISCHEMIC HEART DISEASES		Pathophysiology of IHD		pathology	45 min
08: 45-09: 30	29	ISCHEMIC HEART DISEASES		Clinical aspects of IHD		Cardiology	45 min
09: 30-10: 15	30	Systemic hypertension				Medicine	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
<b>Saturday 15-02-2025</b>							
08:00-08: 45		Cardiac Tumor		Pathophysiology		Pathology	45 min
08: 45-09: 30		Cardiac Tumor		Clinical Aspect		Cardiology	45 min
09: 30-10: 15		Revision				Community Medicine	45 min

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## ENDOCRINE SYSTEM (3<sup>rd</sup> March, 2025 to 15<sup>th</sup> March, 2025)

DURATION 12 DAYS

CONTACT HOURS Lectures 22 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

### OBJECTIVES

The course is designed primarily for 4<sup>th</sup> year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of Endocrine System including Pituitary Thyroid & Parathyroid gland. The interrelated clinical aspects of Medicine, Surgery, Orthopaedics will be covered. The radiological aspects will also be dealt with.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>03-03-2025 Monday</b>							
8:00 8:45	1	Introduction to Endocrinology				Medicine	45 min
8:45- 9:30	2	Pituitary gland		<ul style="list-style-type: none"> <li>• Classification of Pituitary Adenomas</li> <li>• Morphological features of various types of Pituitary adenomas</li> <li>• Genetic alterations in Pituitary tumors</li> </ul>	Robbins & Cotran	Pathology	45 min
9:30- 10:15	3	Acromegaly and gigantism. Hyperprolactinaemia		<ul style="list-style-type: none"> <li>• Causes, clinical features, investigation and treatment of Acromegaly.</li> <li>• Causes, clinical features, investigation and treatment of Hyperprolactinaemia.</li> </ul>	<ul style="list-style-type: none"> <li>•Davidson's Principles and Practice of Medicine 22nd Edition</li> <li>•Kumar and Clark's Clinical Medicine, 8th Edition</li> <li>•CURRENT Medical Diagnosis and Treatment 2016</li> </ul>	Medicine	45 min

					(LANGE CURRENT Series) 55th Edition		
<b>Hospital work 10.30-2.30</b>							
<b>04-03-2025 Tuesday</b>							
8:00- 8:45	4.	Posterior Pituitary (Diabetes insipidus, SIADH)		<ul style="list-style-type: none"> <li>Types, Causes, clinical features, investigation and treatment of Diabetes insipidus.</li> <li>Causes, clinical features, investigation and treatment of SIADH.</li> </ul>	<ul style="list-style-type: none"> <li>Davidson's Principles and Practice of Medicine 22nd Edition</li> <li>Kumar and Clark's Clinical Medicine, 8th Edition</li> <li>CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition</li> </ul>	Medicine	45 min
8:45- 9:30	5.	Hypopituitarism. GROWTH AND ABNORMAL STATURE		<ul style="list-style-type: none"> <li>Causes, clinical features, investigation and treatment of Hypopituitarism.</li> <li>Causes, investigation and treatment of Short Stature</li> </ul>	<ul style="list-style-type: none"> <li>Davidson's Principles and Practice of Medicine 22nd Edition</li> <li>Kumar and Clark's Clinical Medicine, 8th Edition</li> <li>CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition</li> </ul>	MEDICINE	45 min
9:30- 10:15	6.	Pituitary lesions in brain				Neuro Surgery	45 min
<b>Hospital work 10.30-11.45</b>							
<b>PRACTICAL</b>						Respective departments	12.00—2.30
<b>05-03-2025 Wednesday</b>							
8:00 8:45	7.	Role of imaging in endocrine lesions				RADIOLOGY	45 min
8:45- 9:30	8.	Hypothyroidism		<ul style="list-style-type: none"> <li>Causes, clinical features, investigation and treatment of Hypothyroidism.</li> </ul>	Davidson's Principles and	Medicine	45 min

				<ul style="list-style-type: none"> <li>Myxedema Coma</li> </ul>	Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition		
9:30-10:15	9.	Non neoplastic thyroid diseases		Etiology & morphology of Hyperthyroidism Causes of hypothyroidism Cretinism , Myxedema		Pathology	45 min
<b>Hospital work 10.30-2.30</b>							
<b>06-03-2025 Thursday</b>							
8:00-8:45	10.	Hyperthyroidism		Causes, clinical features, investigation and treatment of Hyperthyroidism. Thyroid Crisis	Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	11.	Thyroiditis & thyroid neoplasms		Pathogenesis & morphological features of <ul style="list-style-type: none"> <li>Hashimotos thyroiditis &amp; Graves disease</li> </ul> Adenomas ,Papillary, Medullary & Follicular carcinomas		Pathology	45 min
9:30-10:15	12.	Lab investigations for pituitary & thyroid Disorders				Pathology	45 min
<b>Hospital work 10.30-11.45</b>							
<b>PRACTICAL</b>						Respective departments	12.00—2.30

07-03-2025 Friday							
8:00-8:45	13.	Thyroid eye disease				Ophthalmology	45 min
8:45-9:30	14	NeuroOphthalmology (Lesions of optic tract)				Ophthalmology	45 min
9:30-10:15	15	Polycystic ovarian disease				Gynaecology	45 min
HOSPITAL WORK 10.30-12.00							
08-03-2024 Saturday							
8:00-8:45	16.	Disorders Of Calcium Metabolism. Hyperparathyroidism. hypoparathyroidism		<ul style="list-style-type: none"> <li>• Causes of Hypercalcemia.</li> <li>• Types, causes, clinical features, investigation and treatment of Hyperparathyroidism.</li> <li>• Causes of Hypocalcemia.</li> <li>• Causes, clinical features, investigation and treatment of Hypoparathyroidism.</li> </ul>	Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	17.	Parathyroid glands		Pathogenesis & morphological features of <ul style="list-style-type: none"> <li>• Primary &amp; Secondary Hyperparathyroidism</li> <li>• Hypoparathyroidism</li> </ul>		Pathology	
9:30-10:15	18.	Management of metabolic fractures				Surgery	45 min
HOSPITAL WORK 10.30-2.30							
10-03-2025 Monday							
8:00-8:45	20	Surgery in Diabetes & Diabetic Foot				Surgery	45 min
8:45-9:30	21	Diabetes Mellitus		<ul style="list-style-type: none"> <li>• Classification, clinical features, complications, investigation and treatment of DM.</li> </ul>	•Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition	Medicine	45 min

					•CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition		
9:30-10:15	22	Diabetes Mellitus		<ul style="list-style-type: none"> <li>• Insulin signaling pathways</li> <li>• Classification</li> <li>• Morphology &amp; pathogenesis of type 1 &amp; type 2 Diabetes Mellitus</li> </ul>	Robbins & Cotran	Pathology	45 min
<b>Hospital work 10.30-2.30</b>							
<b>11-03-2025 Tuesday</b>							
8:00-8:45	23	Diabetic retinopathy2		Classification	Robbins & Cotran	Ophthalmology	
8:45-9:30	24.	Diabetic retinopathy 1		Pathophysiology		Ophthalmology	
9:30-10:15	25.	Diabetes Mellitus		Differences btw type 1 & type 2 D.M Morphological features & Pathogenesis of diabetic complications (microvascular, macrovascular)		Pathology	45 min
<b>Hospital work 10.30-11.45</b>							
<b>PRACTICAL</b>						Respective departments	12.00—2.30
<b>12-03-2025 Wednesday</b>							
8:00-8:45	26.	Diabetes Mellitus – Metabolic Emergencies		Diabetic ketoacidosis. Hyperosmolar hyperglycaemic state. Lactic acidosis.	<ul style="list-style-type: none"> <li>•Davidson's Principles and Practice of Medicine 22nd Edition</li> <li>•Kumar and Clark's Clinical Medicine, 8th Edition</li> <li>•CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition</li> </ul>	Medicine	45 min
8:45-9:30	27.	Gestational diabetic Mellitus				Gynaecology	45 min
9:30-	28.	Diabetic retinopathy (3)		Management		Ophthalmology	45 min

10:15							
<b>Hospital work 10.30-2.30</b>							
<b>13-03-2025 Thursday</b>							
8:00-8:45	29.	Diabetic neuropathy				Neurology	45 min
8:45-9:30	30.					Plastic surgery	45 min
9:30-10:15	31.					Community medicine	45 min
<b>Hospital work 10.30-11.45</b>							
PRACTICAL						Respective departments	12.00—2.30
<b>14-03-2025 Friday</b>							
8:00-8:45	32.	<ul style="list-style-type: none"> <li>• Hyperaldosteronism</li> <li>• Pheochromocytoma</li> </ul>		<ul style="list-style-type: none"> <li>• Causes, clinical features, investigation and treatment of Hyperaldosteronism</li> <li>• Clinical features, investigation and treatment of Pheochromocytoma</li> </ul>	<ul style="list-style-type: none"> <li>• Davidson's Principles and Practice of Medicine 22nd Edition</li> <li>• Kumar and Clark's Clinical Medicine, 8th Edition</li> <li>• CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition</li> </ul>	Medicine	45 min
8:45-9:30	33	<ul style="list-style-type: none"> <li>• Adrenal glands</li> </ul>		Causes, Pathogenesis & Morphological features of <ul style="list-style-type: none"> <li>• Cushing's syndrome</li> <li>• Hyperaldosteronism</li> <li>• Congenital adenal hyperplasia</li> </ul>	Robbins & Cotran	Pathology	45 min
9:30-10:15	34	Anesthesia consideration for surgery for pheochromacytoma & Adrenal & thyroid				Anesthesia	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							

15-03-2025 Saturday							
8:00-8:45	35.	Hypoadrenalism		<ul style="list-style-type: none"> <li>• Causes, clinical features, investigation and treatment of Addison's disease: Primary Hypoadrenalism</li> <li>• Secondary Hypoadrenalism</li> </ul>	Davidson's Principles and Practice of Medicine 22nd Edition •Kumar and Clark's Clinical Medicine, 8th Edition •CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series) 55th Edition	Medicine	45 min
8:45-9:30	36.	Adrenal glands		Causes, Pathogenesis & Morphological features of Adrenal insufficiency Adrenocortical neoplasms	Robbins & Cotran	Pathology	45 min
9:30-10:15	37.					Surgery	45 min
Hospital Work 10.30-2.30							

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**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**GASTROINTESTINAL & HEPATOBILIARY SYSTEM Module (14<sup>th</sup> April, 2025 to 10<sup>th</sup> May, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
14-04-2025	Mon	Paeds Surgery	Pathology	Surgery	Hospital Work 10:30a.m. – 02:30 p.m.		
15-04-2025	Tue	Community Medicine	Pathology	Surgery	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
16-04-2025	Wed	Pathology	Paederatic Surgery	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
17-04-2025	Thu	Community Medicine	Surgery	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
18-04-2025	Fri	Pathology	Medicine	Surgery	Hospital Work 10:30a.m. – 12:00p.m.		
19-04-2025	Sat	Community Medicine	Paederatic Surgery	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
21-04-2025	Mon	Radiology	Pathology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
22-04-2025	Tue	Community Medicine	Paederatic Medicine	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
23-04-2025	Wed	Community Medicine	Psychiatry	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
24-04-2025	Thu	Community Medicine	Medicine	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
25-04-2025	Fri	Community Medicine	Surgery	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
26-04-2025	Sat	Medicine	Surgery	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
28-04-2025	Mon	Pathology	Community Medicine	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
29-04-2025	Tue	Pathology	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
30-04-2025	Wed	Pathology	Medicine	Community Medicine	Hospital Work 10:30a.m. – 02:30p.m.		

01-05-2024 (Holiday)							
02-05-2025	Fri	Surgery	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-05-2024	Sat	Pathology	Surgery	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
05-05-2025	Mon	Pathology	Anesthesia	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
06-05-2025	Tue	Pathology	Medicine	Surgery	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
07-05-2025	Wed	Community Medicine	Paeds Medicine	Gynecology	Hospital Work 10:30a.m. – 02:30p.m.		
08-05-2025	Thu	Paed Medicine	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
09-05-2025	Fri	Paeds Surgery	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
10-05-2025	Sat	Gynecology	Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		

**All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.**

**DR. SAFEENA SARFRAZ,**  
Module Incharge of 4<sup>th</sup> year MBBS,  
Assistant Professor  
KEMU, Lahore

**PROF. DR. FAIZA BASHIR**  
Chairperson  
Department of Pathology  
King Edward Medical University, Lahore.



## MODULE

## GASTROINTESTINAL & HEPATOBILIARY SYSTEM

DURATION 23 DAYS 14-04-2025 to 10-05-2025

CONTACT HOURS Lectures 57 =42.75 hours (2.6) + Practicals + Hospital stay = 39.83 Hours (0.7)

CREDIT HOURS 3.3

TEACHING METHODOLOGIES Lectures/ Practical's / small group discussion/clinics

### OBJECTIVES

The course is designed primarily for 4th year M.B.B.S students and will cover the fundamental aspects of congenital anomalies, inflammatory and neoplastic conditions of salivary glands, oral cavity, gastrointestinal tract, liver, gall bladder and pancreas. The interrelated clinical aspects of Medicine, Surgery, Oncology, Radiology and Gynecological problems will also be covered. By the end of the module, the students should be able to:

Discuss the Pathological and Clinical aspects of:

- Sialadenitis
- Leukoplakia
- Barrett oesophagus
- Gastritis/Peptic ulcer
- Benign and malignant tumors of GIT including salivary glands, oral cavity, liver, pancreas and gall bladder
- Congenital anomalies of GIT
- Intestinal obstruction
- Inflammatory bowel disease
- Diarrhea
- Jaundice
- Infectious and autoimmune hepatitis
- Alcoholic and metabolic liver disease
- Cirrhosis
- Cholecystitis& Pancreatitis
- Various related diagnostic & interventional techniques
- Radiological investigations

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>WEEK 1</b>							
<b>Monday 14-04-2025</b>							
8.00-8.45	1.	Congenital diseases of GIT				Paeds Surgery	45 min
8.45-9.30	2.	Inflammation of salivary glands, Benign and malignant tumors		Etiology, pathogenesis and morphology	Robbins & Cotrans	Pathology	45 min
9.30-10.15	3.	Salivary Glands		<ul style="list-style-type: none"> <li>• Clinical Features</li> <li>• Investigations.</li> <li>• Management</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
<b>HOSPITAL WORK</b>					Respective departments	10.30-2.30	
<b>Tuesday 15-04-2025</b>							
8.00-8.45	4.	Control of epidemic of GIT diseases		<ul style="list-style-type: none"> <li>• Planning and strategizing of GIT epidemic control</li> </ul>	1-Maxy Public Health and Preventive Medicine. 2-Park's Text Book of Preventive and Social Medicine.	Community Medicine	45 min
8.45-9.30	5.	Infections of oral cavity, Precancerous & cancerous lesions of oral cavity		<ul style="list-style-type: none"> <li>• Etiology</li> <li>• Oral manifestation of systemic disease</li> </ul>	Robbins & Cotrans	Pathology	45 min
9.30-10.15	6.	Pre cancerous and malignant conditions of oral cavity.		<ul style="list-style-type: none"> <li>• Clinical Features</li> <li>• Investigations.</li> <li>• Management</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
<b>HOSPITAL WORK (10:30 – 12:00)</b>						<b>Community Medicine (Lecture 12:00 – 12:45)</b>	<b>Pathology Practical (12:45-02:30)</b>
<b>Wednesday 16-04-2025</b>							
8.00-8.45	7.	Oesophageal pathologies		<ul style="list-style-type: none"> <li>• Achalasia</li> <li>• Esophagitis</li> <li>• Barrett Esophagus (GERD)</li> <li>• Oesophageal tumors</li> </ul>	Robbins & Cotrans	Pathology	45 min
8.45-9.30	8.	Neonatal Gastrointestinal obstruction		Idiopathic Hypertrophic pyloric stenosis, Small and large bowel atresias, Anorectal malformations, Hirschsprung's disease, Malrotation.	Pediatric Surgery by Jay L Grosfeld volume 7	Paederatic Surgery	45 min

9.30-10.15	9.	Dysphagia, GERD		Dysphagia: Differential Diagnosis GERD: Definition, Clinical Features, Management	<ul style="list-style-type: none"> <li>• <b>Davidson's Principles and Practice of Medicine 22nd Edition</b></li> <li>• <b>Kumar and Clark's Clinical Medicine, 8th Edition</b></li> <li>• <b>CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition</b></li> </ul>	Medicine	45 min
		<b>HOSPITAL WORK</b>					10.30-2.30
<b>Thursday 17-04-2025</b>							
8.00-8.45	10.	GI parasitic zoonosis of public health importance		Prevention and Control of parasitic zoonosis	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8.45-9.30	11.	<ul style="list-style-type: none"> <li>• Carcinoma esophagus.</li> <li>• Achalasia cardia.</li> </ul>		<ul style="list-style-type: none"> <li>• Clinical features.</li> <li>• Investigations.</li> <li>• Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	12.	Acute and chronic gastritis		Etiology, Pathogenesis and morphology with emphasis on H pylori	Robbins & Cotrans	Pathology	45 min
		<b>HOSPITAL WORK (10:30-12:00 p.m.)</b>				<b>Community Medicine 12:00- 12:45</b>	<b>Pathology Practical 12:45- 2:30</b>
<b>Friday 18-04-2025</b>							
8.00-8.45	13.	Peptic ulcer Gastric polyp Gastric Tumours		<ul style="list-style-type: none"> <li>• Etiology, Pathogenesis and morphology</li> <li>• Stress ulcers, pyloric stenosis</li> </ul>		Pathology	45 min

				<ul style="list-style-type: none"> <li>Hypertrophic gastropathies including Zollinger Ellison syndrome</li> </ul>			
8.45-9.30	14.	Helicobacter Pylori Infection. Acid Peptic Disease.		<p>Helicobacter Pylori Infection: Clinical features, Diagnosis and management. Acid Peptic Disease: Causes, Clinical Features, Investigations and management.</p>	<ul style="list-style-type: none"> <li>Davidson's Principles and Practice of Medicine 22nd Edition</li> <li>Kumar and Clark's Clinical Medicine, 8th Edition</li> <li>CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition</li> </ul>	Medicine	45 min
9.30-10.15	15.	Complications of peptic ulcer disease. Ulcer perforation, Ulcer bleed		<ul style="list-style-type: none"> <li>Clinical features.</li> <li>Investigations.</li> <li>Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
<b>Hospital work 10.30-12.00</b>							
<b>Saturday 19-04-2025</b>							
8.00-8.45	16.	Levels of prevention of acute diarraeal diseases and amoebiasis		Will be able to apply five levels of prevention in acute diarraeal diseases and amoebiasis	<ol style="list-style-type: none"> <li>Maxcy Public Health and Preventive Medicine</li> <li>Park's Text Book of Preventive and Social Medicine</li> </ol>	Community Medicine	45 min
8.45-9.30	17.	Topic not specified				Pediatric Surgery	45 min
9.30-10.15	18.	Gastric polyps and tumours		<ul style="list-style-type: none"> <li>Clinical features.</li> <li>Investigations.</li> <li>Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
<b>Hospital work 10.30-2.30</b>							
<b>Monday 21-04-2025</b>							

8.00-8.45	19.	Plain X-Ray Abdomen / Sialography for Salivary glands  Barium Swallow/Barium Follow through /Barium Enema		Interpretation		Radiology	45 min
8.45-9.30	20.	Intestinal pathologies- obstruction and diarrhea		<ul style="list-style-type: none"> <li>Etiology, pathogenesis and morphology of Ischemic Bowel Disease, Irritable bowel syndrome, Intestinal Obstruction, celiac disease</li> <li>Causes of diarrhea including Giardiasis and Amoebiasis</li> </ul>		Pathology	45 min
9.30-10.15	21.	Intestinal obstruction		<ul style="list-style-type: none"> <li>Clinical features.</li> <li>Investigations.</li> <li>Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
<b>Hospital work 10.30-2.30</b>							
<b>Tuesday 22-04-2025</b>							
8.00-8.45	22.	Poliomyelitis		Will be able to plan and make strategies to combat Polio and understand the bottle necks in its eradication	<ol style="list-style-type: none"> <li>Maxcy Public Health and Preventive Medicine</li> <li>Park's Text Book of Preventive and Social Medicine</li> </ol>	Community Medicine	45 min
8.45-9.30	23.	Acute Diarrhoea & Celia disease				Paederatic medicine	
9.30-10.15	24.	Diarrhea:Acute		Diarrhea:Acute Causes, Clinical Presentations, Investigations and management	<ul style="list-style-type: none"> <li><b>Davidson's Principles and Practice of Medicine 22nd Edition</b></li> <li><b>Kumar and Clark's Clinical Medicine, 8th Edition</b></li> </ul> <b>CURRENT Medical Diagnosis and Treatment 2016</b>	Medicine	

					(LANGE CURRENT Series)55th Edition		
Hospital work (10:30-12.00 p.m.)						Community medicine Lecture 12:00-12:45	Pathology Practical 12:45- 2:30 pm.
<b>Wednesday 23-04-2025</b>							
8.00-8.45	25.	Typhoid		Learn about prevention and epidemic control of Typhoid	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	
8.45-9.30	26.	Somatoform disorders		Management		Psychiatry	
9.30-10.15	27.	Inflammatory Bowel Disease and Graft vs host disease		Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
<b>HOSPITAL WORK 10.30-2.00</b>							
<b>Thursday 24-04-2025</b>							
8.00-8.45	28.	Intestinal TB		Understand epidemiology and Public Health significance of intestinal T.B	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8.45-9.30	29.	Diarrhea Chronic: Large Gut. Inflammatory Bowel Disease		Diarrhea, Chronic: Large Gut. Causes, Clinical Presentations. Inflammatory Bowel Disease: Types, Clinical features, Investigations and management.	<ul style="list-style-type: none"> <li>Davidson's Principles and Practice of Medicine 22nd Edition</li> <li>Kumar and Clark's Clinical Medicine, 8th Edition</li> <li>CURRENT Medical Diagnosis and Treatment 2016 (LANGE</li> </ul>	Medicine	45 min

					<b>CURRENT Series)55th Edition</b>		
9.30-10.15	30.	Ultrasound Abdomen – Liver, Pancreas, Spleen C.T. Abdomen / C.T. Head and Neck		Interpretation		Radiology	45 min
<b>HOSPITAL WORK 10:30-12:00</b>						<b>Community medicine 12:00- 12: 45 p.m.</b>	<b>Pathology Practical 12:45- 2:30</b>
<b>Friday 25-04-2025</b>							
8.00-8.45	31.	Cholera		Learn about prevention and epidemic control of Cholera	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8.45-9.30	32.	Inflammatory bowel disease.		<ul style="list-style-type: none"> <li>• Clinical features.</li> <li>• Investigations.</li> <li>• Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	33.	Non- Neoplastic and neoplastic polyps, colorectal Carcinoma		Etiology, Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
<b>Hospital work</b>				<b>10.30-12.00</b>			
<b>Saturday 26-04-2025</b>							
8.00-8.45	34.	Celiac Disease		Diarrhea (Chronic) Small Gut: Malabsorption: Causes, Clinical Presentations Celiac Disease: Clinical Features, Investigations. Management	<ul style="list-style-type: none"> <li>• <b>Davidson's Principles and Practice of Medicine 22nd Edition</b></li> <li>• <b>Kumar and Clark's Clinical Medicine, 8th Edition</b></li> <li>• <b>CURRENT Medical Diagnosis and Treatment 2016 (LANGE</b></li> </ul>	Medicine	45 min

					<b>CURRENT Series)55th Edition</b>		
8.45-9.30	35.	Pre malignant and malignant conditions of the colon and rectum.		<ul style="list-style-type: none"> <li>• Clinical features.</li> <li>• Investigations.</li> <li>• Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	36.	Colorectal cancers		Screening modalities for colorectal cancers Staging work up and management and targeted therapies in colorectal cancers		Oncology	45 mins
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>Monday 28-04-2025</b>							
8.00-8.45		Liver Pathology				Pathology	
8.45-9.30		Topic not conveyed				Community Medicine	
9.30-10.15		Topic not conveyed				Medicine	
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>Tuesday 29-04-2025</b>							
8.00-8.45	37.	Pattern of hepatocytes response to injury		Reversible and irreversible injury Hepatic Complications Hepatic Encaphalopathy	Robbins & Cotrans	Pathology	45 min
8.45-9.30	39.	Jaundice Cholestasis, LFT's		Classification, causes and pathophysiology, Interpretation of LFTs		Pathology	45 min
		Jaundice Acute Hepatitis		Jaundice. ( PreHepatic, Hepatic and Post-Hepatic) Acute Hepatitis: Causes Clinical Presentation (HAV, HEV), Investigation and Management	<ul style="list-style-type: none"> <li>• Davidson's Principles and Practice of Medicine 22<sup>nd</sup> Edition</li> <li>• Kumar and Clark's Clinical Medicine, 8<sup>th</sup> Edition</li> <li>• Current Medical Diagnosis and</li> </ul>	Medicine	

					Treatment 2016 (LANGE CURRENT Series) 55 <sup>th</sup> Edition		
<b>HOSPITAL WORK 10: 30- 12: 00</b>						<b>Community Medicine 12: 00- 12: 45 p.m.</b>	<b>Pathology Practical 12: 45- 2: 30 p.m.</b>
<b>Wednesday 30-04-2025</b>							
8.00- 8.45	43.	Infectious and inflammatory liver disorders		Pathogenesis, Morphology and laboratory diagnosis of Viral hepatitis, Liver abscess, Autoimmune hepatitis		Pathology	45 min
8.45- 9.30	44.	Chronic Hepatitis. Hepatitis B, Hepatitis C		Chronic Hepatitis: Causes. Hepatitis B: Clinical Features, Investigations and Management. Hepatitis C: Clinical Features, Investigations and Management.	<ul style="list-style-type: none"> <li>• <b>Davidson's Principles and Practice of Medicine 22nd Edition</b></li> <li>• <b>Kumar and Clark's Clinical Medicine, 8th Edition</b></li> <li>• <b>CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition</b></li> </ul>	Medicine	45 min
9.30- 10.15	45. 45.	Hydatid disease and Yellow fever		Learn about prevention and control measures of Hydatid Disease and Yellow Fever	<ol style="list-style-type: none"> <li>1. Maxcy Public Health and Preventive Medicine</li> <li>2. Park's Text Book of Preventive and Social Medicine</li> </ol>	Community Medicine	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>Thursday 01-05-2025 (Holiday)</b>							
<b>Friday 02-05-2025</b>							

8.00-8.45	46.	Portal hypertension.		<ul style="list-style-type: none"> <li>• Clinical features.</li> <li>• Investigations.</li> <li>• Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
8.45-9.30	47.	Alcoholic and metabolic liver disease, Cirrhosis		Pathophysiology and morphology of <ul style="list-style-type: none"> <li>• alcoholic liver disease,</li> <li>• Non-alcoholic liver disease,</li> <li>• Wilson's disease,</li> <li>• Haemochromatosis</li> <li>• Cirrhosis</li> </ul>		Pathology	45 min
9.30-10.15	48.	Chronic Liver Disease.		Chronic Liver Disease: Causes, Clinical features, Complications, Investigations and Management.	<ul style="list-style-type: none"> <li>• <b>Davidson's Principles and Practice of Medicine 22nd Edition</b></li> <li>• <b>Kumar and Clark's Clinical Medicine, 8th Edition</b></li> <li>• <b>CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition</b></li> </ul>	Medicine	45 min
<b>HOSPITAL WORK 10:30-12:00</b>							
<b>Saturday 03-05-2025</b>							
8.00-8.45	49.	Benign and malignant neoplasms of liver, gall bladder and pancreas		Etiology and Morphology with emphasis on Metastatic liver disease		Pathology	45 min
8.45-9.30	50.	Hepatocellular carcinoma		<ul style="list-style-type: none"> <li>• Clinical features.</li> <li>• Investigations.</li> <li>• Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
9.30-10.15	51.	Hepatocellular carcinoma , Pancreatic cancer		Staging work up and management of HCC , Pancreatic Adenocarcinoma and Neuroendocrine tumors		Oncology	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>Monday 05-05-2025</b>							
8.00-8.45	52.	Carcinoma gall bladder		<ul style="list-style-type: none"> <li>• Clinical features.</li> <li>• Investigations.</li> <li>• Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	

8.45-9.30	53.	Aspiration of gastric contents; causes, prevention and management				Anaesthesia	45 min
9.30-10.15	54.	HIV/AIDS		Will be able to plan and make strategies to control HIV/AIDS and understand the bottle necks in its management	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>Tuesday 06-05-2025</b>							
8.00-8.45	55.	Pancreatitis and cholecystitis		<ul style="list-style-type: none"> <li>Acute and chronic forms</li> <li>Etiology, pathogenesis and morphology</li> </ul>		Pathology	45 min
8.45-9.30	56.	Pancreatitis. Acute and Chronic.		Pancreatitis: (Acute and Chronic). Clinical Features, Complications , Investigations and management.	<ul style="list-style-type: none"> <li><b>Davidson's Principles and Practice of Medicine 22nd Edition</b></li> <li><b>Kumar and Clark's Clinical Medicine, 8th Edition</b></li> <li><b>CURRENT Medical Diagnosis and Treatment 2016 (LANGE CURRENT Series)55th Edition</b></li> </ul>	Medicine	
9.30-10.15	57.	Acute and chronic pancreatitis.		<ul style="list-style-type: none"> <li>Clinical features.</li> <li>Diagnosis.</li> <li>Management.</li> </ul>	Bailey And Love's Short Practice of Surgery 26th Ed	Surgery	45 min
<b>HOSPITAL WORK 10: 30- 12: 00</b>						<b>Community Medicine 12: 00- 12: 45 p.m.</b>	<b>Pathology Practical 12: 45- 2: 30 p.m.</b>
<b>Wednesday 07-05-2025</b>							
8.00-8.45	58	Acute and Chronic Viral Hepatitis		Understand the epidemiology, planning and control measures of acute and chronic viral hepatitis	<ul style="list-style-type: none"> <li>Maxcy Public Health and</li> </ul>	Community Medicine	45 min

					preventive Medicine • Park's Text Book of Preventive and social Medicine		
8.45- 9.30	59	Neonatal Jaundice				Paeds Medicine	45 min
9.30- 10.15	60	Jaundice in Pregnancy HELLP		Management		Gynecology	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>Thursday 08-05-2025</b>							
8.00- 8.45	61	Revision				Paed- Medicine	45 min
8.45- 9.30	62.	Revision				Community Medicine	45 min
9.30- 10.15	63.	Revision				Community Medicine	45 min
<b>HOSPITAL WORK 10: 30- 12: 00</b>						<b>Community Medicine 12: 00- 12: 45 p.m.</b>	<b>Pathology Practical 12: 45- 2: 30 p.m.</b>
<b>Friday 09-05-2025</b>							
8.00- 8.45	64.	Revision				Paeds Surgery	45 min
8.45- 9.30	65.	Liver Function Test				Pathology	45 min
9.30- 10.15	66.	Liver Function Test				Pathology	45 min
<b>Hospital work</b>				<b>10.30-12.00</b>			
<b>Saturday 10-05-2025</b>							
8.00- 8.45	67	Revision				Gynecology	45 min
8.45- 9.30	68	Revision				Medicine	45 min
9.30- 10.15	69	Revision				Surgery	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							

**DR. SAFEENA SARFRAZ,**  
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**PROF. DR. FAIZA BASHIR**  
Chairperson  
Department of Pathology  
King Edward Medical University,



**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**(Respiratory System)**  
**Starting Date 17-03-2025 to 12-04-2025**

Date	Day	08:00 – 08:40a.m.	08:40 – 09:20a.m.	09:30 – 10:10a.m.	Hospital Work		Practical
17-03-25	Mon	ENT	Community Medicine	Eye	Hospital Work 09:45a.m. – 01:00p.m.		
18-03-25	Tue	Behavioral Sciences	Pathology	Anesthesia	Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
19-03-25	Wed	Chest Medicine	Pathology	Community Medicine	Hospital Work 09:45a.m. – 01:00p.m.		
20-03-25	Thu	Obstetrics & Gynecology	Pathology	Medicine	Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
21-03-25	Fri	Medicine	Community Medicine	Anesthesia	Hospital Work 09:45a.m. – 12:00p.m.		
22-03-25	Sat	Surgery	ENT	Neurology	Hospital Work 09:45a.m. – 01:00p.m.		
24-03-25	Mon	ENT	Pathology	Community Medicine	Hospital Work 09:45a.m. – 01:00p.m.		
25-03-25	Tue	<b>Pathology Test</b>			Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
26-03-25	Wed	Surgery	Pathology	Community Medicine	Hospital Work 09:45a.m. – 01:00p.m.		
27-03-25	Thu	Chest Medicine	Pathology	Community Medicine	Hospital Work 09:45a.m. To 11:00 a.m.	Community Medicine Lecture (11:00a.m. To 11:45a.m.)	Practical 11:45p.m. – 1:00p.m.
28-03-25	Fri	Obstetrics & Gynecology	Pathology	Eye	Hospital Work 09:45a.m. – 12:00p.m.		
29-03-25	Sat	Chest Medicine	Pathology	Surgery	Hospital Work 09:45a.m. – 01:00p.m.		

09-04-25	Wed	ENT	Community Medicine	Eye	Hospital Work 10:30a.m. – 02:30p.m.		
10-04-25	Thu	Pathology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. To 12:00 Noon	Community Medicine Lecture (12:00p.m. To 12:45p.m.	Practical 12:45p.m. – 2:30p.m.
11-04-25	Fri	Surgery	ENT	Neurology	Hospital Work 10:30a.m. – 12:00p.m.		
12-04-25	Sat	Surgery	Pathology	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		

**All lectures will be conducted in Maqbool Ahmad Block of KEMU.**

**DR. SAFEENA SARFRAZ,**  
4<sup>th</sup> year MBBS Module Incharge  
Assistant Professor  
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KEMU, Lahore.

**PROF. DR. FAIZA BASHIR,**  
Chairperson,  
Department of Pathology  
KEMU, Lahore.



**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2023-24)**  
**Female Genital System (12<sup>th</sup> May, 2025 to 24<sup>th</sup> May, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
12-05-2025	Mon	Pathology	Pathology	Gynecology	Hospital Work 10:30a.m. – 02:30 p.m.		
13-05-2025	Tue	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
14-05-2025	Wed	Gynecology	Pathology	Oncology	Hospital Work 10:30a.m. – 02:30 p.m.		
15-05-2025	Thu	Gynecology	Gynecology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
16-05-2025	Fri	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00 p.m.		
17-05-2025	Sat	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		
19-05-2024	Mon	Gynecology	Pathology	Radiology	Hospital Work 10:30a.m. – 02:30p.m.		
20-05-2025	Tue	Gynecology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
21-05-2025	Wed	Pathology	Pathology	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
22-05-2025	Thu	Gynecology	Pathology	Urology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
23-05-2025	Fri	Pathology	Surgery	Oncology	Hospital Work 10:30a.m. – 12:00 p.m.		
24-05-2025	Sat	Pathology	Surgery	Pathology	Hospital Work 10:30a.m. – 02:30p.m.		

All lectures will be conducted in Maqbool Ahmad Block, KEMU, Lahore.

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**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**Kidney and Urinary Bladder (26<sup>th</sup> May, 2025 to 7<sup>th</sup> June, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
26-05-2025	Mon	Pathology	Pathology	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.		
27-05-2025	Tue	Pathology	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
28-05-2025	Wed	Medicine	Radiology	Nephrology/ Medicine	Hospital Work 10:30a.m. – 12:00p.m.		
29-05-2025	Thu	Nephrology/ Medicine	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
30-05-2025	Fri	Pathology	Pathology	Medicine/ Nephrology	Hospital Work 10:30a.m. – 12:30 p.m.		
31-05-2025	Sat	Medicine/ Nephrology	Pathology	Pediatric Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
02-06-2025	Mon	Anesthesia	Urology	Urology	Hospital Work 10:30a.m. – 02:30p.m.		
03-06-2025	Tue	Urology	Pathology	Oncology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
04-06-2025	Wed	Urology	Pathology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
05-06-2025	Thu	Urology	Pathology	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
06-06-2025	Fri	Nephrology	Urology	Pathology	Hospital Work 10:30a.m. – 12:30 p.m.		
07-06-2025	Sat	Medicine	Urology	Oncology	Hospital Work 10:30a.m. – 02:30 p.m.		

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**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)  
CNS (21<sup>st</sup> July, 2025 to 26<sup>th</sup> July, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work	Practical
21-07-2025	Mon	Neurology	Pathology	Ophthalmology	Hospital Work 10:30a.m. – 02:30 p.m.	
22-07-2025	Tue	Neurology	Neurology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Practical 12:45p.m. to 02:30p.m.
23-07-2025	Wed	Medicine	Neurology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.	
24-07-2025	Thu	Neurology	Pathology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Practical 12:45p.m. to 02:30p.m.
25-07-2025	Fri	Neurology	Neurology	Medicine	Hospital Work 10:30a.m. – 12:00 p.m.	
26-07-2025	Sat	<b>Pathology Test</b>			Hospital Work 10:30a.m. – 02:30p.m	

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**KEMU 4<sup>th</sup> Year MBBS 2025**  
**CENTRAL NERVOUS SYSTEM**

DATE: 21-07-2025 to 26-07-2025

DURATION 6 DAYS

CONTACT HOURS Lectures 18 =13.5 hours (0.8) + Practical's + Hospital stay = 22 Hours (0.4)

CREDIT HOURS 1.2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

**OBJECTIVES**

The course is designed primarily for 4<sup>th</sup> year M.B.B.S students and will cover the fundamental aspects of inflammatory and neoplastic conditions of CNS.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>21-07-2025 Monday</b>							
8:00-8:45	1	<b>Cerebrovascular Accidents</b>  <b>Ischemic Stroke</b>		<ul style="list-style-type: none"> <li>• Definition</li> <li>• Classification /Types</li> <li>• Clinical features</li> <li>• Etiology</li> <li>• Management</li> </ul>		Neurology	45 min
8:45-9:30	2	CEREBROVASCULAR DISEASES	•	Pathophysiology & Morphological features of <ul style="list-style-type: none"> <li>• Cerebral edema, Hydrocephalus</li> <li>• Raised intracranial pressure</li> <li>• Non Haemorrhagic &amp; Haemorrhagic Infarct</li> <li>• Hypertensive CVD</li> </ul>	Robbins & Cotran	Pathology	45 min

9:30-10:15	3	<b>3<sup>rd</sup> &amp; 4<sup>th</sup> nerve Palsy and 6<sup>th</sup> nerve palsy</b>	•			Ophthalmology	45 min	
<b>Hospital work 10.30-02.30</b>								
<b>22-07-2025 Tuesday</b>								
8:00-8:45	4.	<b>Hemorrhagic Stroke</b>	<ul style="list-style-type: none"> <li>• Definition</li> <li>• Risk Factors</li> <li>• Etiology</li> <li>• Management</li> </ul>			Neurology	45 min	
8:45-9:30	5.	<b>Headache</b> <b>Epilepsy</b>	•	Types ,clinical approach		Neurology	45 min	
9:30-10:15	6.	Prion disease & Degenerative diseases of CNS				Pathology	45 min	
<b>Hospital work 10.30-11.45</b>								
		PRACTICAL						12.00—02:30
<b>23-07-2025 Wednesday</b>								
8:00-8:45	7.	<b>Acute Meningitis</b>		Clinical features Etiology Management		Medicine	45 min	
8:45-9:30	8.	Dementias/Degenerative brain disorders. - Alzheimer's disease - Parkinson's disease				Neurology	45 min	
9:30-10:15	9.	Infectious meningitis		<ul style="list-style-type: none"> <li>• Acute pyogenic</li> <li>• Acute viral</li> <li>• Brain abscess</li> </ul>	Robbins & Cotran	Pathology	45 min	
<b>Hospital work 10.30-02.30</b>								
<b>24-07-2025 Thursday</b>								
8:00-8:45	10.	<b>Chronic Meningitis</b>		<ul style="list-style-type: none"> <li>• Clinical features</li> <li>• Etiology</li> <li>• Management</li> </ul>		Neurology	45 min	
8:45-9:30	11.	Chronic meningitis		<ul style="list-style-type: none"> <li>• Chronic bacterial (T.B, neurosyphilis, Lyme's disease)</li> <li>• Chronic Viral (HSV, HIV, CMV, RABIES, Poliomyelitis)</li> <li>• Fungal meningitis</li> </ul>	Robbins & Cotran	Pathology	45 min	
9:30-10:15	12.	Tumors of CNS		<ul style="list-style-type: none"> <li>• Gliomas</li> <li>• Meningiomas</li> </ul>		Pathology	45 min	

Hospital work 10.30-11:45								
		<b>PRACTICAL</b>					<b>12.00—02:30</b>	
25-07-2025 Friday								
8:00-8:45		Revision CNS Tumor				Neurology	45 min	
8:45-9:30		Revision CNS Tumor				Neurology	45 min	
9:30-10:15		CNS tumors				Medicine	45 min	
Hospital work: 10.30-12:30								
26-07-2025 Saturday								
8:00-8:45							45 min	
8:45-9:30		Pathology Test						45 min
9:30-10:15							45 min	

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**KEMU 4<sup>th</sup> Year MBBS 2025**  
**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**3<sup>rd</sup> Intermodule (28<sup>th</sup> July, 2025 to 9<sup>th</sup> August, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
28-07-2025	Mon	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		
29-07-2025	Tue	Ophthalmology	Pathology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
30-07-2025	Wed	Plastic Surgery	Pathology	ENT	Hospital Work 10:30a.m. – 12:00p.m.		
31-07-2025	Thu	Plastic Surgery	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
01-08-2025	Fri	Plastic Surgery	Pathology	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		
02-08-2025	Sat	Plastic Surgery	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		
04-08-2025	Mon	Plastic Surgery	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30p.m.		
05-08-2025	Tue	ENT	Ophthalmology	Pathology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
06-08-2025	Wed	Community Medicine	Ophthalmology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
07-08-2025	Thu	Pathology	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
08-08-2025	Fri	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		
09-08-2025	Sat	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		

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## KEMU 4<sup>th</sup> Year MBBS 2025

### 3RD INTERMODULE, 2024-25

DURATION 12 DAYS (28-July, 2025 to 9<sup>th</sup> August, 2025)

CONTACT HOURS Lectures 22 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

**NOTE: NOT SPECIFIED YET** refers to that the contents haven't been specified or conveyed upto now. So please you can cover the remaining syllabus in these lectures whatever is required.

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>28-07-2025 Monday</b>							
8:00-8:45	1	Not specified yet				Community Medicine	45 min
8:45-9:30	2	Not specified yet		•		Ophthalmology	45 min
9:30-10:15	3	Not specified yet				ENT	45 min
<b>Hospital work</b>					<b>10.30-2.30</b>		
<b>29-07-2025 Tuesday</b>							
8:00-8:45	4.	Not specified yet				Ophthalmology	45 min
8:45-9:30	5.	Breast (1)				Pathology	45 min
9:30-10:15	6.	Not specified yet				ENT	45 min
<b>Hospital work</b>					<b>10.30-11.45</b>		
		PRACTICAL		OVERVIEW PRACTICAL		Respective departments	12.00—2.30

				SMALL GROUP DISCUSSIONS			
<b>30-07-2025 Wednesday</b>							
8:00-8:45	7.	Not specified yet				Plastic surgery	45 min
8:45-9:30	8.	Breast (2)				Pathology	45 min
9:30-10:15	9.	Not specified yet				ENT	45 min
<b>Hospital work</b>				<b>10.30-2.30</b>			
<b>31-07-2025 Thursday</b>							
8:00-8:45	10.	Not specified yet				Plastic surgery	45 min
8:45-9:30	11.	Not specified yet				Ophthalmology	45 min
9:30-10:15	12.	Not specified yet				ENT	45 min
<b>Hospital work</b>				<b>10.30-11.45</b>			
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
<b>01-08-2025 Friday</b>							
8:00-8:45	13.	Not specified yet				Plastic surgery	45 min
8:45-9:30	14.	Breast (3)				Pathology	45 min
9:30-10:15	15.	Not specified yet				ENT	45 min
		HOSPITAL WORK				Respective departments	10.30-12.00
<b>02-08-2025 Saturday</b>							
8:00-8:45	16.	Not specified yet				Plastic surgery	45 min
8:45-9:30	17.	Not specified yet				Ophthalmology	
9:30-10:15	18.	Not specified yet				ENT	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>04-08-2025 Monday</b>							
8:00-8:45	20.	Not specified yet				Plastic surgery	45 min
8:45-9:30	21.	Not specified yet				Ophthalmology	45 min
9:30-	22.	Not specified yet				ENT	45 min

10:15							
<b>Hospital work 10.30-2.30</b>							
<b>05-08-2025 Tuesday</b>							
8:00-8:45	23.	Not specified yet				ENT	45 min
8:45-9:30	24.	Not specified yet				Ophthalmology	45 min
9:30-10:15	25	Breast (4)				Pathology	45 min
<b>Hospital work 10.30-11.45</b>							
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30
<b>06-08-2025 Wednesday</b>							
8:00-8:45	26.	Not specified yet				Community Medicine	45 min
8:45-9:30	27.	Not specified yet				Ophthalmology	45 min
9:30-10:15	28.	Skin (1)				Pathology	45 min
<b>Hospital work 10.30-2.30</b>							
<b>07-08-2025 Thursday</b>							
8:00-8:45	29.	Skin (2)				Pathology	45 min
8:45-9:30	30.	Not specified yet				Ophthalmology	45 min
9:30-10:15	31.	Not specified yet				ENT	45 min
<b>Hospital work 10.30-11.45</b>							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
<b>08-08-2025 Friday</b>							
8:00-8:45	32.	Not specified yet				Community Medicine	45 min
8:45-9:30	33	Not specified yet				Ophthalmology	45 min
9:30-10:15	34	Not specified yet				ENT	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
<b>09-08-2025 Saturday</b>							
8:00-8:45	35.	Not specified yet				Community Medicine	45 min

8:45-9:30	36.	Not specified yet				Ophthalmology	
9:30-10:15	37.	Not specified yet				ENT	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							

**All lectures will be conducted in Maqboold Ahmad Block, KEMU, Lahore.**

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**KEMU 4<sup>th</sup> Year MBBS 2025**  
**2nd INTERMODULE, (Session 2024-25)**

DURATION 12 DAYS (10-07-2025 to 19-07-2025)

CONTACT HOURS Lectures 22 =16.5 hours (1) + Practical's + Hospital stay = 44 Hours (0.91)

CREDIT HOURS 2

TEACHING METHODOLOGIES Lectures/Practicals/ small group discussion/clinics

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>10-07-2025 Thursday</b>							
8:00-8:45	1.	Research Epidemiology and Disease Control		Basic measurements in epidemiology (morbidity, mortality, disability and fatality).	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	2.	Clinical evaluation of Strabismus				Ophthalmology	45 min
9:30-10:15	3.					ENT	45 min
<b>Hospital work</b>			<b>10.30-11.45</b>				
		PRACTICAL		Community Medicine		Respective departments	12.00—2.30

<b>11-07-2025 Friday</b>							
8:00-8:45	4.	Research Epidemiology and Disease Control		1. Screening for disease. 2. Community diagnosis 3. Research and survey methodology	4. Maxcy Public Health and Preventive Medicine 5. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	5.	Management of Strabismus		•		Ophthalmology	45 min
9:30-10:15	6.			•		ENT	45 min
<b>Hospital work 10.30-12.30</b>							
<b>12-07-2025 Saturday</b>							
8:00-8:45	07.	Introduction to Strabismus		1.	1.	Ophthalmology	45 min
8:45-9:30	08.	Research Epidemiology and Disease Control		Research Methodology General Epidemiology. Background, concepts and uses	Maxcy Public Health and Preventive Medicine Park's Text Book of Preventive and Social Medicine	Community Medicine	
9:30-10:15	09.					Community medicine	45 min
<b>Hospital work 10.30-02.30</b>							
<b>14-07-2025 Monday</b>							
8:00-8:45	10.	Research Epidemiology and Disease Control		Control Of Infection 1. Controlling the reservoir-notification 2.Early diagnosis and prompt treatment 3.isolation 4.quarantine, disinfections 5. Interruption of transmission		Community Medicine	45 min
8:45-9:30	11.	Research Epidemiology and Disease Control		Prevention and control of infectious diseases	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	12.	Amblyopia, corneal ulcers				Ophthalmology	45 min
<b>Hospital work 10.30-02.30</b>							

<b>15-07-2025 Tuesday</b>							
8:00-8:45	13.	Research Epidemiology and Disease Control		Control of Infection 1. The susceptible host (active and passive immunization, 1. Combined, Chemoprophylaxis 2. non-specific measures) Health advice to travelers 4. National case management guidelines	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	14.	Research Epidemiology and Disease Control		Dynamics of Infectious Disease Transmission  1. Reservoir and source of infection. 2. Escape of organism 3. Mode of transmission 4. Entry into the body 5. Susceptible host 6. Immunity (different types of immunity and immunization)	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
9:30-10:15	15.	Corneal ectasia				Ophthalmology	45 min
<b>Hospital work 10.30-11.45</b>							
		PRACTICAL		Community Medicine		Respective departments	12.00—2.30
<b>16-07-2025 Wednesday</b>							
8:00-8:45	16.	Research Epidemiology and Disease Control		Epidemiology, control and prevention of infectious diseases of Public Health Importance 1-Respiratory infections 2-Diseases transmitted through feco-oral route	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
	17.	Errors of refraction				Ophthalmology	45 min
	18.					ENT	45 min
<b>Hospital work 10.30-02:30</b>							
<b>17-07-2025 Thursday</b>							
8:00-8:45	19.	Research Epidemiology and Disease Control		Epidemiology, control and prevention of infectious diseases of Public Health Importance: 1. Arthropod borne diseases	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min

				2. Diseases of animals conveyed to man 3. Diseases due to direct contact			
8:45-9:30	20.	Management of errors of refraction				Ophthalmology	45 min
9:30-10:15	21.					ENT	45 min
<b>Hospital work 10.30-11.45</b>							
		PRACTICAL		Community Medicine		Respective departments	12.00—2.30
<b>18-07-2025 Friday</b>							
8:00-8:45	22.	Research Epidemiology and Disease Control		Epidemiology control and prevention of non-infectious diseases of Public Health Importance	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	23.	Evaluation of watery eyes, Nasolacrimal duct blockage				Ophthalmology	
9:30-10:15	24.	Extropia				Ophthalmology	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
<b>19-07-2025 Saturday</b>							
8:00-8:45	25.	Research Epidemiology and Disease Control		Epidemiological methods (descriptive, analytical and experimental).	1. Maxcy Public Health and Preventive Medicine 2. Park's Text Book of Preventive and Social Medicine	Community Medicine	45 min
8:45-9:30	26.	Esotropia				Ophthalmology	45 min
9:30-10:15	27.					ENT	45 min
<b>Hospital work 10.30-02.30</b>							

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**KEMU4TH YEAR MBBS 202**  
**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**2<sup>nd</sup> Intermodule (10<sup>th</sup> July, 2025 to 19<sup>th</sup> July, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
10-07-2025	Thu	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
11-07-2025	Fri	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00 p.m.		
12-07-2025	Sat	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
14-07-2025	Mon	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 02:30 p.m.		
15-07-2025	Tue	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
16-07-2025	Wed	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		
17-07-2025	Thu	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
18-07-2025	Fri	Community Medicine	Ophthalmology	Ophthalmology	Hospital Work 10:30a.m. – 12:00 p.m.		
19-07-2025	Sat	Community Medicine	Ophthalmology	ENT	Hospital Work 10:30a.m. – 02:30 p.m.		

All lectures will be conducted in Maqbool Ahmad Block KEMU, Lahore.

**DR. SAFEENA SARFRAZ,**  
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 Chairperson,  
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 King Edward Medical University,  
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## MODULE

## Female & Male genital System

DURATION 18 DAYS (12-05-2025 to 24-05-2025)

CONTACT HOURS Lectures 39 =29.25 hours (1.7) + Practicals + Hospital stay = 27.2 Hours (0.4)

CREDIT HOURS 2.1

TEACHING METHODOLOGIES Lectures/ Practicals / small group discussion/clinics

### OBJECTIVES

The course is designed primarily for 4<sup>th</sup> year M.B.B.S students and will cover the fundamental aspects of Etiology, Pathogenesis and Morphology of diseases related to male and female genital System. The interrelated clinical aspects of Medicine, Surgery/Urology, Oncology, Radiology and Gynecological problems will also be covered. By the end of the module, the students should be able to:

Discuss the Pathological and Clinical aspects of:

- Pelvic inflammatory disease
- Benign and malignant lesions of vulva, cervix, vagina , ovaries and uterus
- Gestational and Placental disorders
- Benign and malignant neoplasms of prostate
- Inflammatory and neoplastic lesions of testes
- Various related diagnostic & interventional techniques
- Radiological investigations

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>Monday 12-05-2025</b>							
8.00-8.45	1.	Female genital tract introduction, Pelvic inflammatory disease		Anatomy of genital tract Etiology, Pathogenesis & Morphology of PID	Robbins & Cotrans	Pathology	45 min
8.45-9.30	2.	Vulval pathologies		Etiology, Pathogenesis & Morphology of Bartholian cyst, Non-neoplastic and neoplastic lesions	Robbins & Cotrans	Pathology	45 min
9.30-10.15	3.	PID		Presentation and management of PID		Gynecology	45 min
<b>Hospital work 10.30-2.30</b>							
<b>Tuesday 13-05-2025</b>							
8.00-8.45	4.	Vulval pathologies		Presentation and management of Benign and malignant of disease of vulva		Gynecology	45 min
8.45-9.30	5.	Inflammatory diseases of cervix		Etiology, Pathogenesis & Morphology of acute & chronic cervicitis, endocervical polyp		Pathology	45 min
9.30-10.15	6.	Vaginal Pathologies		Etiology, Pathogenesis & Morphology of pre-malignant and malignant lesions	Robbins & Cotrans	Pathology	45 min
<b>Hospital work 10.30-11.45</b>							
		PATHOLOGY PRACTICAL				Respective departments	12.00—2.30
<b>Wednesday 14-05-2025</b>							
8.00-8.45	7.	Vaginal Pathologies		Presentation and management of vaginal pathologies		Gynecology	45 min
8.45-9.30	8.	pre-malignant and malignant lesions of cervix		Etiology, Pathogenesis & Morphology of CIN, Squamous cell carcinoma	Robbins & Cotrans	Pathology	45 min
9.30-10.15	9.	Prevention and Early detection and treatment Cervical Cancers		Vaccination against HPV, screening guidelines, role of radiation therapy	Robbins & Cotrans	Oncology	45 min
<b>Hospital work 10.30-2.30</b>							
<b>Thursday 15-05-2025</b>							
8.00-8.45	10.	Cervical pathologies		Presentation and treatment of cervicitis + cervical polyp		Gynaecology	45 min
8.45-9.30	11.	Dating of Endometrium		Morphological changes during menstrual cycle		Gynaecology	45 min

9.30-10.15	12.	Functional endometrial disorders/Dysfunctional uterine bleeding		Pathogenesis and morphology of <ul style="list-style-type: none"> <li>Anovulatory cycle</li> <li>Acute &amp; chronic endometritis</li> <li>Adenomyosis</li> <li>Endometriosis</li> </ul>		Pathology	45 min
<b>Hospital work 10.30-11.45</b>							
		PATHOLOGY PRACTICAL				Respective departments	12.00—2.30
<b>Friday 16-05-2025</b>							
8.00-8.45	13.	Uterine pathologies		Presentation and management of adenomyosis + endometriosis		Gynaecology	45 min
8.45-9.30	14.	Endometrial polyp and hyperplasia		Etiology, Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
9.30-10.15	15.	Laboratory diagnosis of various Gynaecological disorders		Interpretation of LH,FSH,LH:FSH, Testosterone	Robbins & Cotrans	Pathology	45 min
<b>Hospital work 10.30-12.00</b>							
<b>Saturday 17-05-2025</b>							
8.00-8.45	16.	Endometrial pathologies		Presentation and management of endometrial polyps + hyperplasia		Gynaecology	45 min
8.45-9.30	17	Endometrial carcinoma		Etiology, Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
9.30-10.15	18.	Endometrial stromal tumors		Etiology, Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
<b>Hospital work 10.30-2.30</b>							
<b>Monday 19-05-2025</b>							
8.00-8.45	19	Endometrial pathologies		Presentation and treatment of endometrial CA + fibroid		Gynaecology	
8.45-9.30	20.	Benign and Malignant tumors of myometrium		Etiology, Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
9.30-10.15	21.	Evaluation of Genital Pathologies				Radiology	45 min
<b>Hospital work 10.30-2.30</b>							

Tuesday 20-05-2025							
8.00-8.45	25.	Ovarian tumors PCOS		Presentation and management of ovarian tumors & PCOS		Gynecology	45 min
8.45-9.30	26.	Ovarian tumors		Classification & Frequency	Robbins & Cotrans	Pathology	45 min
9.30-10.15	27.	Surface epithelial tumors Follicular and Luteal Cyst		Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
<b>Hospital work</b>				<b>10.30-12:00</b>			
PATHOLOGY PRACTICAL						Respective departments	12.00—2.30
<b>HOSPITAL WORK 10.30-2.30</b>							
Wednesday 21-05-2025							
8.00-8.45	28.	Sex cord stromal and Germ cell tumors		Pathogenesis & Morphology	Robbins & Cotrans	Pathology	45 min
8.45-9.30	29.	Gestational and Placental disorders		Pathogenesis and Morphology of ectopic pregnancy and Gestational Trophoblastic Disease	Robbins & Cotrans	Pathology	45 min
9.30-10.15	30.	Germ Cell tumors		Staging, biomarkers and Management of Germ cell tumors in males and Females		Oncology	45 min
<b>Hospital work</b>				<b>10.30-02.30</b>			
Thursday 22-05-2025							
8.00-8.45	31.			<ul style="list-style-type: none"> <li>Presentation and management of Ectopic + GTT</li> </ul>		Gynaecology	45 min
8.45-9.30	32.	Inflammatory lesions of prostate and Benign prostatic hyperplasia		Pathogenesis and Morphology	Robbins & Cotrans	Pathology	45 min
9.30-10.15	33.	BPH clinical features and investigations				Urology	45 min
<b>Hospital work</b>				<b>10.30-11.45</b>			
PATHOLOGY PRACTICAL						Respective departments	12.00—2.30
Friday 23-05-2025							
8.00-8.45	34.	Carcinoma of prostate		Etiology, Pathogenesis, Morphology and Staging	Robbins & Cotrans	Pathology	45 min
8.45-9.30	35.	Carcinoma of prostate				Surgery	45 min

9.30-10.15	36.	Carcinoma of prostate		Principals of Androgen Deprivation therapy (ADT) and management of Castration resistant Prostate cancer (CRPC)		Oncology	45 mins
<b>Hospital work 10.30-11.45</b>							
<b>Saturday 24-05-2025</b>							
8.00-8.45	37.	Neoplastic lesions of testes		Classification, Pathogenesis and Morphology	Robbins & Cotrans	Pathology	45 min
8.45-9.30	38.	Carcinoma Testes				Surgery	45 min
9.30-10.15	39.	Non-neoplastic lesions of testes		Pathogenesis and Morphology of congenital anomalies, inflammatory and vascular lesions of testes	Robbins & Cotrans	Pathology	45 min
<b>Hospital work 10.30-2.30</b>							

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**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**Musculoskeletal System (11<sup>th</sup> August, 2025 to 30<sup>th</sup> August, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
11-08-2025	Mon	Orthopedics	Pathology	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.		
12-08-2025	Tue	Medicine	Radiology	Orthopedics	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
13-08-2025	Wed	Medicine	Orthopedics	Pathology	Hospital Work 10:30a.m. – 12:00p.m.		
14-08-2025	Thu	<b>HOLIDAY</b>					
15-08-2025	Fri	Surgery	Radiology	Pathology	Hospital Work 10:30a.m. – 12:30 p.m.		
16-08-2025	Sat	Surgery	Medicine	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.		
18-08-2025	Mon	Pathology	Orthopedics	Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
19-08-2025	Tue	Orthopedics	Medicine	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
20-08-2025	Wed	Surgery	Medicine	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
21-08-2025	Thu	Pathology	Orthopedics	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
22-08-2025	Fri	Pathology	Radiology	Surgery	Hospital Work 10:30a.m. – 12:30 p.m.		
23-08-2025	Sat	Oncology	Surgery	Orthopedics	Hospital Work 10:30a.m. – 02:30 p.m.		
25-08-2025	Mon	Orthopedics	Radiology	Surgery	Hospital Work 10:30a.m. – 02:30 p.m.		
26-08-2025	Tue	Medicine	Orthopedics	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
27-08-2025	Wed	Surgery	Medicine	Orthopedics	Hospital Work 10:30a.m. – 02:30 p.m.		
28-08-2025	Thu	Pathology	Surgery	Radiology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
29-08-2028	Fri	Medicine	Oncology	Orthopedics	Hospital Work 10:30a.m. – 12:30 p.m.		
30-08-2025	Sat	Oncology	Surgery	Radiology	Hospital Work 10:30a.m. – 02:30 p.m.		

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**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**4<sup>th</sup> Intermodule (1<sup>st</sup> September, 2025 to 20<sup>th</sup> September, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
01-09-2025	Mon	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
02-09-2025	Tue	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-09-2025	Wed	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.		
04-09-2025	Thu	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
05-09-2025	Fri	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
06-09-2025	Sat	<b>Holiday</b>			Hospital Work 10:30a.m. – 02:30 p.m.		
08-09-2025	Mon	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 02:30p.m.		
09-09-2025	Tue	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
10-09-2025	Wed	Behavioral Sciences	Community Medicine	Ophthalmology			
11-09-2025	Thu	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
12-09-2025	Fri	Community Medicine	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
13-09-2025	Sat	Ophthalmology	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
15-09-2025	Mon	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
16-09-2025	Tue	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
17-09-2025	Wed	Community Medicine	ENT	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		

18-09-2025	Thu	ENT	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
19-09-2025	Fri	Pathology Test	Pathology Test	Pathology Test	Hospital Work 10:30a.m. – 12:30 p.m.		
20-09-2025	Sat	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:30 p.m.		

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**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**4<sup>th</sup> Intermodule (1<sup>st</sup> September, 2025 to 20<sup>th</sup> September, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
01-09-2025	Mon	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 02:30 p.m.		
02-09-2025	Tue	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-09-2025	Wed	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.		
04-09-2025	Thu	Behavioral Sciences	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
05-09-2025	Fri	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
06-09-2025	Sat	<b>Holiday</b>			Hospital Work 10:30a.m. – 02:30 p.m.		
08-09-2025	Mon	Community Medicine	Ophthalmology	Behavioral Sciences	Hospital Work 10:30a.m. – 02:30p.m.		
09-09-2025	Tue	Ophthalmology	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
10-09-2025	Wed	Behavioral Sciences	Community Medicine	Ophthalmology			
11-09-2025	Thu	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
12-09-2025	Fri	Community Medicine	Community Medicine	Behavioral Sciences	Hospital Work 10:30a.m. – 12:30 p.m.		
13-09-2025	Sat	Ophthalmology	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
15-09-2025	Mon	ENT	Ophthalmology	Community Medicine	Hospital Work 10:30a.m. – 12:30 p.m.		
16-09-2025	Tue	Ophthalmology	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
17-09-2025	Wed	Community Medicine	ENT	ENT	Hospital Work 10:30a.m. – 12:30 p.m.		

18-09-2025	Thu	ENT	Community Medicine	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
19-09-2025	Fri	Pathology Test	Pathology Test	Pathology Test	Hospital Work 10:30a.m. – 12:30 p.m.		
20-09-2025	Sat	Community Medicine	Community Medicine	Ophthalmology	Hospital Work 10:30a.m. – 12:30 p.m.		

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**TIME TABLE OF 4<sup>TH</sup> YEAR MBBS (2024-25)**  
**Core Recall (22<sup>nd</sup> September, 2025 to 22<sup>nd</sup> October, 2025)**

Date	Day	08:00 – 08:45a.m.	08:45 – 09:30a.m.	09:30 – 10:15a.m.	Hospital Work		Practical
22-09-2025	Mon	Surgery	Surgery	Orthopedics	Hospital Work 10:30a.m. – 02:30 p.m.		
23-09-2025	Tue	Urology	Gynecology	Gynecology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
24-09-2025	Wed	Pathology	Pathology	Pathology	Hospital Work 10:30a.m. – 02:30 p.m.		
25-09-2025	Thu	ENT	ENT	Eye	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
26-09-2025	Fri	Community Medicine	Community Medicine	Eye	Hospital Work 10:30a.m. – 12:00 p.m.		
27-09-2025	Sat	Eye	Eye	ENT	Hospital Work 10:30a.m. – 02:30p.m		
29-09-2025	Mon	Radiology	Radiology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
30-09-2025	Tue	Eye	Medicine	Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
01-10-2025	Wed	Pathology	Pathology	Oncology	Hospital Work 10:30a.m. – 02:30p.m.		
02-10-2025	Thu	ENT	ENT	Community Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
03-10-2025	Fri	Pathology	Pathology	Plastic Surgery	Hospital Work 10:30a.m. – 12:00 p.m.		
04-10-2025	Sat	Pathology	Pathology	Neurology	Hospital Work 10:30a.m. – 02:30p.m.		
06-10-2025	Mon	ENT	Eye	Community Medicine	Hospital Work 10:30a.m. – 02:30p.m.		
07-10-2025	Tue	Behavior Sciences	Nephology/ Medicine	Urology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
08-10-2025	Wed	Gynecology	Gynecology	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
09-10-2025	Thu	Oncology	Radiology	Pedes Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
10-10-2025	Fri	Psychiatry	Psychiatry	Pedes Medicine	Hospital Work 10:30a.m. – 12:00 p.m.		

11-10-2025	Sat	Community Medicine	Community Medicine	ENT	Hospital Work 10:30a.m. – 02:30p.m.		
13-10-2025	Mon	Medicine	Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
14-10-2025	Tue	Radiology	Oncology	Pedes Medicine	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
15-10-2025	Wed	Anesthesia	Behavior Sciences	Psychiatry	Hospital Work 10:30a.m. – 02:30p.m.		
16-10-2025	Thu	Surgery	Surgery	Neurology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
17-10-2025	Fri	Medicine	Surgery	Psychiatry	Hospital Work 10:30a.m. – 12:00 p.m.		
18-10-2025	Sat	Medicine	Pedes Medicine	Surgery	Hospital Work 10:30a.m. – 02:30p.m.		
20-10-2025	Mon	Psychiatry	Surgery	Radiology	Hospital Work 10:30a.m. – 02:30p.m.		
21-10-2025	Tue	Plastic Surgery	Orthopedics	Gynecology	Hospital Work 10:30a.m. – 12:00p.m.	Community Medicine 12:00 to 12: 45 p.m.	Practical 12:45p.m. to 02:30p.m.
22-10-2025	Wed	Medicine	Nephrology	Urology	Hospital Work 10:30a.m. – 02:30p.m.		

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Lahore.



## Core Recall, 2024-25

**DURATION**      27 DAYS (22-September, 2025 to 22<sup>nd</sup> October, 2025)

**TEACHING METHODOLOGIES**    Lectures/Practicals/ small group discussion/clinics

**NOTE: Please cover the remaining syllabus in these lectures whatever is required.**

TIME		COURSE CONTENT	PLACE	LEARNING OUTCOME	Recommended books	DEPARTMENT/ Facilitator	DURATION
<b>22-09-2025 Monday</b>							
8:00-8:45	1					Surgery	45 min
8:45-9:30	2					Surgery	45 min
9:30-10:15	3					Orthopedics	45 min
<b>Hospital work</b>					<b>10.30-2.30</b>		
<b>23-09-2025 Tuesday</b>							
8:00-8:45	4.					Urology	45 min
8:45-9:30	5.					Gynecology	45 min
9:30-10:15	6.					Gynecology	45 min
<b>Hospital work</b>					<b>10.30-11.45</b>		
		PRACTICAL		OVERVIEW PRACTICAL SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30

24-09-2025 Wednesday							
8:00-8:45	7.					Pathology	45 min
8:45-9:30	8.					Pathology	45 min
9:30-10:15	9.					Pathology	45 min
<b>Hospital work</b>				<b>10.30-2.30</b>			
25-09-2025 Thursday							
8:00-8:45	10.					ENT	45 min
8:45-9:30	11.					ENT	45 min
9:30-10:15	12.					Eye	45 min
<b>Hospital work</b>				<b>10.30-11.45</b>			
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
26-09-2025 Friday							
8:00-8:45	13.					Community Medicine	45 min
8:45-9:30	14					Community Medicine	45 min
9:30-10:15	15					Eye	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
27-09-2025 Saturday							
8:00-8:45	16.					Eye	45 min
8:45-9:30	17.					Eye	
9:30-10:15	18.					ENT	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							

29-09-2025 Monday							
8:00-8:45	19					Radiology	45 min
8:45-9:30	20					Radiology	45 min
9:30-10:15	21					Surgery	45 min
<b>Hospital work</b>				<b>10.30-2.30</b>			
30-09-2025 Tuesday							
8:00-8:45	22.					Eye	45 min
8:45-9:30	23.					Medicine	45 min
9:30-10:15	24					Medicine	45 min
<b>Hospital work</b>				<b>10.30-11.45</b>			
		PRACTICAL		Overview -- PRACTICAL --SMALL GROUP DISCUSSIONS		Respective departments	12.00—2.30
01-10-2025 Wednesday							
8:00-8:45	25.					Pathology	45 min
8:45-9:30	26.					Pathology	45 min
9:30-10:15	27.					Oncology	45 min
<b>Hospital work</b>				<b>10.30-2.30</b>			
02-10-2025 Thursday							
8:00-8:45	28.					ENT	45 min
8:45-9:30	29.					ENT	45 min
9:30-10:15	30.					Community Medicine	45 min
<b>Hospital work</b>				<b>10.30-11.45</b>			

		PRACTICAL		Community medicine		Respective departments	12.00—2.30
<b>03-10-2025 Friday</b>							
8:00-8:45	31.					Pathology	45 min
8:45-9:30	32					Pathology	45 min
9:30-10:15	33					Plastic Surgery	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
<b>04-10-2025 Saturday</b>							
8:00-8:45	34.					Pathology	45 min
8:45-9:30	35.					Pathology	45 min
9:30-10:15	36.					Neurology	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>06-10-2025</b>							
8:00-8:45	37					ENT	45 min
8:45-9:30	38					Eye	45 min
9:30-10:15	39					Community Medicine	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>07-10-2025 Tuesday</b>							
8:00-8:45	40					Behavior Sciences	45 min
8:45-9:30	41					Nephrology/ Medicine	45 min
9:30-10:15	42					Urology	45 min

<b>HOSPITAL WORK 10.30-12.00</b>							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
<b>08-10-2025 Wednesday</b>							
8:00-8:45	43					Gynecology	45 min
8:45-9:30	44					Gynecology	45 min
9:30-10:15	45					Surgery	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>09-10-2025 Thursday</b>							
8:00-8:45	46					Oncology	45 min
8:45-9:30	47					Radiology	45 min
9:30-10:15	48					Pedes Medicine	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
<b>10-10-2025 Friday</b>							
8:00-8:45	49					Psychiatry	45 min
8:45-9:30	50					Psychiatry	45 min
9:30-10:15	51					Pedes Medicine	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
<b>11-10-2025 Saturday</b>							
8:00-8:45	52					Community Medicine	45 min
8:45-9:30	53					Community Medicine	45 min

9:30-10:15	54					ENT	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>13-010-2025 Monday</b>							
8:00-8:45	55					Medicine	45 min
8:45-9:30	56					Medicine	45 min
9:30-10:15	57					Surgery	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>14-10-2025 Tuesday</b>							
8:00-8:45	58					Radiology	45 min
8:45-9:30	59					Oncology	45 min
9:30-10:15	60					Pedes Medicine	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
<b>15-10-2025 Wednesday</b>							
8:00-8:45	61					Anesthesia	45 min
8:45-9:30	62					Behavioral Sciences	45 min
9:30-10:15	63					Psychiatry	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>16-10-2025 Thursday</b>							
8:00-8:45	64					Surgery	45 min
8:45-9:30	65					Surgery	45 min
9:30-10:15	66					Neurology	45 min

<b>HOSPITAL WORK 10.30-12.00</b>							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30
<b>17-10-2025 Friday</b>							
8:00-8:45	67					Medicine	45 min
8:45-9:30	68					Surgery	45 min
9:30-10:15	69					Psychiatry	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
<b>18-10-2025 Saturday</b>							
8:00-8:45	70					Medicine	45 min
8:45-9:30	71					Pedes Medicine	45 min
9:30-10:15	72					Surgery	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>20-10-2025 Monday</b>							
8:00-8:45	73					Psychiatry	45 min
8:45-9:30	74					Surgery	45 min
9:30-10:15	75					Radiology	45 min
<b>HOSPITAL WORK 10.30-2.30</b>							
<b>21-10-2025 Tuesday</b>							
8:00-8:45	76					Plastic Surgery	45 min
8:45-9:30	77					Orthopedics	45 min
9:30-10:15	78					Gynecology	45 min
<b>HOSPITAL WORK 10.30-12.00</b>							
		PRACTICAL		Community medicine		Respective departments	12.00—2.30

22-10-2025 Wednesday							
8:00-8:45	79					Medicine	45 min
8:45-9:30	80					Nephrology	45 min
9:30-10:15	81					Urology	45 min
HOSPITAL WORK 10.30-2.30							

**All lectures will be conducted in Maqboold Ahmad Block, KEMU, Lahore.**

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