

4th Professional MBBS



Pathology Department
Nishtar Medical University, Multan

STUDY GUIDE

PATHOLOGY DEPARTMENT

Batch – 01: (2023-2027) N-72

BLOCK-10

YEAR-4th year MBBS

Prepared by:

Prof. Dr Asghar Javaid

(Chairperson Pathology)

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(Coordinator- I)

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INTRODUCTION TO THE PATHOLOGY DEPARTMENT

The Department of Pathology at Nishtar Medical University is actively involved in undergraduate and postgraduate teaching, research, and diagnostic services. The department provides academic teaching and practical training to 3rd year and 4th year MBBS students, as well as students of BDS , DPT, BS Allied Health Sciences, and Nursing programs.

The department also offers postgraduate training in various disciplines of Pathology, including FCPS and DCP programs. These trainees receive structured academic and clinical training under the supervision of qualified and experienced faculty members in both the department and its affiliated teaching hospitals.

In addition to its educational role, the department contributes significantly to patient care through laboratory diagnostic services and promotes research activities in different fields of Pathology.

VISION STATEMENT:

We envision healthy mankind enlightened by most accomplished health professionals

MISSION STATEMENT:

Develop a patient oriented medical university that produces health professionals thriving for ethics, knowledge, skills and research.

MISSION STATEMENT OF PATHOLOGY DEPARTMENT:

Train health professionals equipped with passion and proficiency by achieving excellence in health professional education, dedicated academic research and expertise in latest diagnostic techniques.

MISSION STATEMENT OF 4TH YEAR MBBS (PATHOLOGY)

To promote Knowledge , skills and research in special pathology through integrated understanding of the etiology and Pathogenesis of diseases.

INTRODUCTION TO THE STUDY GUIDE:

Dear Students, This guide is designed to help you understand the structure and organization of the module and to assist you in planning and managing your studies effectively.

This study guide will help you to:

- Understand how the module is organized and delivered.
- Plan and manage your studies efficiently throughout the course.
- Become familiar with the assessment methods, rules, and regulations.
- Obtain important information regarding the organization and administration of the module, including the appropriate contacts for academic or administrative assistance.
- Understand the learning objective and competencies expected to be achieved by the end of the module.
- Identify the teaching and learning strategies that will be used to achieve the module outcomes.
- Access recommended learning resources, including textbooks, reference materials, and articles, to enhance your understanding and learning experience.
- Find the contact details of faculty members responsible for different topics to facilitate communication and guidance when needed.

We hope this study guide serves as a valuable resource and helps you achieve a successful and productive learning experience.

BLOCK: X

Block-X

Module-19 Hematopoietic and Lymphoid system

Module- 20 Breast and Genetics

INFRASTRUCTURE

Sir Syed Lecture Hall MKP
Pathology Department
Pathology Practical Lab
Museum

INTEGRATED COMMITTEE

DESIGNATION	RANK	NAME	ROLE
MODULE HEAD	PROFESSOR	Prof. Dr. Asghar Javaid Head of Pathology Department Prof. Dr. Syeda Sabahat Haider Zaidi	Oversee all the activities of the module
MODULE COORDINATOR	Associate Prof.	Dr. M Sami Ullah	Oversee the module coordination
	Assistant professor	Dr. Qurratulain	Oversee delivery and assessment as laid out in module descriptor

NMU UNDERGRADUATE CURRICULUM COMMITTEE

DESIGNATION	RANK	NAME	ROLE
HEAD OF MEDICINE/DIRECTOR QEC	PROFESSOR	DR. ZAHRA NAZISH	Chairperson
DEAN OF BASIC SCIENCE	PROFESSOR	DR. ASGHAR JAVAID	Member
PROFESSOR OF RADIOLOGY	PROFESSOR	DR. ABDUL SATTAR ANJUM	Member
PROFESSOR OF SURGERY	PROFESSOR	DR. MUZAFFAR AZIZ	Member
PROFESSOR OF OBST & GYNAE	PROFESSOR	DR. SAIMA ASHRAF	Member
ASSISTANT PROFESSOR PHYSIOLOGY	ASSISTANT PROFESSOR	DR. FAIZA	Member/Secretary

DEPARTMENTAL CURRICULUM COMMITTEE

DESIGNATION	RANK	NAME	ROLE
CHAIRPERSON	PROFESSOR	Prof. Dr. ASGHAR JAVAID	Oversee technical review of curriculum proposals
MEMBERS		Prof. Dr. SYEDA SABAHAT HAIDER Dr. M. SAMI ULLAH Dr. YASMEEN BATTOOL DR QURRATULAIN Dr. KIRAN MUMTAZ	Review and recommend course and program additions, revisions, and deletions and recommend policies related to academic offerings.

SUPPORTING STAFF

DESIGNATION	NAME
IT SUPPORT	Dr. Aniq/Mr. Ibrahim
ASSOCIATE ENGINEER	-
RUNNER	- Mr.FAYYAZ

CLASS REPRESENTATIVES

NAME	CONTACT
Rana Zain Iqbal Hostellite CR	03220787714
Talha Umar day schooler CR	03356375544
Alishba Akbar Day schooler GR	03347823727
Faria Nawaz Hostellite GR	03137867738

FACULTY

DESIGNATION	NAME	CONTACT
PROFESSOR	DR. ASGHAR JAVAID SHB	0300-6352140
PROFESSOR	DR. Syeda Sabahat Haider Zaidi	03033338909
ASSOCIATE PROFESSOR	DR. MUHAMMAD SAMI ULAH	03336105207
ASSISTANT PROFESSOR	DR. SABEEN FATIMA DR. YASMEEN BATOOL DR. KIRAN MUMTAZ DR. QURRATULAIN	03365444713 03336873800 03028386632 03324624109
PWMO	DR. LUBNA FAZIL	03028634051
APMO	DR. IMRAN HASHMI DR. MAJID RASHEED DR AAMIR ASAD SHAH DR IRFAN ARSHAD DR WALI	03447068489 03007186146 03136309945 03336119093 03336789915
APWMO	DR. MERAJ FATIMA	0318908333
SENIOR DEMONSTRATOR	DR. HIRA SADIA DR UNAIZA USMANI DR. MUHAMMAD JAVED AKHTAR DR KAZIM ABBAS	03200771932 03214039796 03401846712 03007197575
DEMONSTRATOR	DR. SHAHBAZ ANWAR DR. ALI ABUZAR RAZA DR. ANAM MALIK DR. ALI ABUZAR RAZA DR. IMRAN SHOUKAT DR. IQRA SALEEM	03006322273 03325880870 03326028500
SWMO	DR. BLOSSOM NEELAM DR. MEHREEN AFZAL	03330671314 03319750278
WMO	DR. FARWA KOMAL DR. AZKA AFZAL DR. ARUBA KHALID	03334027900 03164633004 03446440560

CURRICULUM FRAMEWORK

PATHOLOGY

INTRODUCTION

Pathology is an important branch of Medical Education that deals with the study of diseases affecting different organs and systems of the body. It provides the scientific basis for understanding the etiology, pathogenesis, morphological changes, clinical features, complications, and outcomes of diseases. The subject serves as a bridge between basic medical sciences and clinical practice, helping fourth-year MBBS students develop diagnostic reasoning and correlate pathological findings with clinical presentations and laboratory investigations.

A sound understanding of Special Pathology is essential for future clinical practice and forms the foundation of many medical specialties. However, students often face difficulties due to the vast syllabus and complexity of disease mechanisms. This study guide has been developed to provide a structured, comprehensive, and student-friendly approach to learning, aligned with the PMDC curriculum. It aims to promote conceptual understanding, self-directed learning, and effective preparation for both professional examinations and clinical training.

RATIONALE

Pathology requires not only memorization but also a clear conceptual understanding of disease mechanisms, morphological changes, clinical manifestations, and their correlation with laboratory and diagnostic findings. Fourth-year MBBS students often face difficulties in integrating pathological concepts with clinical practice due to the vast syllabus and complexity of disease processes. Traditional textbooks, although comprehensive, may sometimes be overwhelming and may not provide the focused approach required for effective learning in an integrated curriculum.

This study guide has been developed to provide a concise, structured, and student-friendly resource that highlights the core concepts and essential topics of Special Pathology. It aims to simplify complex disease mechanisms, enhance conceptual understanding, and support active learning and long-term retention. The guide is intended to assist students in effective exam preparation, clinical correlation, and the development of a strong foundation for future medical practice.

ATTENDANCE REQUIREMENT

- 1) Students are expected to attend all scheduled teaching sessions and examinations
- 2) Attendance in lectures, SGD, PBL and SDL is mandatory.
- 3) A minimum of 75% attendance in the lectures and other sessions is mandatory to appear in the University examination
- 4) Students with attendance below 75% will NOT be allowed to appear in:•

- ☐ Class Tests
- ☐ Ward Tests
- ☐ Module Examinations
- ☐ Block Examinations
- ☐ Professional Examinations

5) ATTENDANCE MARKS IN INTERNAL ASSESSMENT

- ☐ 75%–84% attendance = 3 marks
- ☐ 85%–94% attendance = 4 marks
- ☐ 95% and above = 5 marks

6) 50%–75%

Students within this range may only attend remedial/compensatory classes to improve attendance

No Attendance Weightage For Compensatory Classes

7) Medical leave, maternity leave, participation in national/international events, and other long leaves require approval from the Vice Chancellor's Office on the recommendation of the concerned Principal.

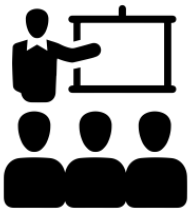
8) Attendance will be recorded by Biometric device system



LEARNING STRATEGIES

The learning strategies that we will be using throughout this module, to promote better understanding, are:

- Large-Group Interactive Sessions/ Interactive Lecture
- Small-Group Discussion (SGD)
- Problem-Based Learning
- Case-Based Learning
- Task-Based Learning
- Team-Based Learning
- Role play
- E-lectures



Interactive lecture/ Large Group Interactive Sessions (LGIS):

In a large group, the lecturer introduces a topic and explains it through presentations, questions, pictures, videos, exercises, etc. Students are actively involved in the learning process.



Small-Group Discussion (SGD):

This format helps students to clarify concepts, acquired skills, or attitudes. Sessions are structured with the help of specific exercises such as cases, interviews, or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials, and self-study. The facilitator's role is to ask probing questions, summarize, or rephrase to help clarify concepts.



Role Play:

It is a technique that allows students to explore realistic situations by interacting with other people in a managed way in order to develop experience and trial different strategies in a supported environment.



Directed Self Learning (DSL):

Students assume responsibilities of their learning through individual study, sharing and discussing with peers, seeking information from the Learning Resource Center, teachers, and resource persons with and outside the college. Students can utilize the time within the college schedule hours for self-study under supervision.



Team-Based Learning (TBL):

It is an active learning and small group instructional strategy that provides students with opportunities to apply conceptual knowledge through a sequence of activities that includes individual work, teamwork, and immediate feedback. (Parmelee, Michaelsen, Cook, & Hudes, 2012)



Task-Based Learning (TskBL):

Task-based learning is an approach in which learning revolves around the completion of meaningful tasks. The tasks to be used will be real-life tasks that are very relevant.



Flipped classroom:

Flipped learning' or the 'flipped classroom' is a strategy that reverses traditional learning by delivering core content outside of the classroom (often online), and moves activities more traditionally thought of as 'homework', into the classroom. (Arfstrom & Network, 2014)



E-Learning:

It is electronically-mediated teaching and learning that is facilitated via information and Communications technology (ICT), both inside and outside the classroom

4th Year MBBS Class 2025-26 (Special Pathology)
BLOCK-10 Module-19 Hematopoietic and Lymphoid system

Theory					
Special Pathology					
Sr. No.		Code	Specific Learning Objectives	DISCIPLINE	TOPIC
2	Dr. Yasmeen Batool		Introduction of WBCs, causes of leukocytosis, leukopenia • Define AML, ALL and classify subtypes • Describe pathogenesis and risk factors • Recognize clinical features • Outline diagnostic approach	Hematology	WBCs Disorders
			• Describe classification of MPN, MDS WHO -pathogenesis OF ET, PRV, PM ,clinical features and bone morphology, brief management CML clinical presentation, pathogenesis, bone and cbc morphology and phases • Recognize lab features (CBC, smear) • Outline management principles		
			• Define Hodgkin, Non Hodgkin lymphoma and pathophysiology • Recognize clinical/lab features • Outline basic management		
			• Define MM • Describe pathogenesis and risk factors • Recognize clinical/lab features including M protein • Outline diagnostic workup		
3	Dr Qurratulain Lecture 09		Introduction to RBCs, Define anemia classify it, Describe the pathophysiology of iron deficiency anaemia, megaloblastic anemia, anemia of chronic disorder. Define hemolytic anemia & pathophysiology of thalassemia, sickle cell anaemia, red cell membrane disorders, metabolic disorders Describe the clinical features of iron deficiency anaemia.	Hematology	RBCs Disorders

	Dr Sabeen Fatima Lecture 04		Describe the normal process of hemostasis. Classify disorders of hemostasis based on the underlying defect. Explain the pathogenesis and inheritance of hemophilia and Vwd	Hematology	Platelets & Transfusion
			Define thrombotic microangiopathy and explain its pathogenesis. Classify different types of TMAs. Explain the underlying pathophysiological mechanisms of DIC, TMAs. Outline characteristic laboratory findings seen in DIC		

Practical Lab Work

Sr. No.	Teacher Name	Code	Specific Learning Objectives	TOTAL HOURS = 09	
				DISCIPLINE	TOPIC
4	Dr. Aruba Khalid		Describe the components of a Complete Blood Count (CBC) and interpret . Identify normal and abnormal cells on peripheral blood smear. Define leukopenia and leukocytosis. Differentiate acute myeloid leukemia (AML) from acute lymphoblastic leukemia (ALL) based on morphology and basic lab findings. Identify key features of chronic lymphocytic leukemia (CLL) including lymphocytosis and smudge cells.	Pathology	CBC, Peripheral Smear, Leucopenia, Leucocytosis, AML, ALL, CLL
			Define Hodgkin, non-Hodgkin lymphoma and classify its major types. Identify the morphological features of HL, NHL on histopathology slides.		HL, NHL (MCL, BL, FL, DLBCL)
	Dr. Imrana Shaukat		Identify the characteristic peripheral smear and bone marrow findings of myeloproliferative neoplasms. Recognize the hematological features of chronic myeloid leukemia on CBC and peripheral smear. Identify dysplastic changes in blood cells suggestive of myelodysplastic syndrome on peripheral smear and bone marrow examination.		MPN, CML, MDS (Clinical presentation, pathology, morphology, lab diagnosis)
			Perform and interpret ABO and Rh blood grouping correctly using standard laboratory methods. Identify and differentiate the common clinical and laboratory features of transfusion reactions.		Transfusion reactions and blood grouping

	Dr.Nadia Kanwal		Identify characteristic peripheral smear and bone marrow findings of multiple myeloma.		Multiple Myeloma, MDS
			Recognize laboratory features suggestive of hemolytic anemia. Perform and interpret direct and indirect Coombs tests. Identify peripheral smear findings and screening tests used for G6PD deficiency. Recognize spherocytes on peripheral smear and correlate them with hereditary spherocytosis.		Hemolytic anemia, Coombs test, Enzymopathy, Membranopathy, G6PD deficiency, Hereditary spherocytosis
	Dr. Imran Hashmi		Identify the characteristic hematological findings of alpha thalassemia on CBC and peripheral smear. Recognize the peripheral smear features and laboratory findings of beta thalassemia. Identify sickled red blood cells and correlate laboratory findings with sickle cell anemia.		Alpha/Beta Thalassemia, Sickle Cell Anemia
	Dr. Hira sadia		Identify schistocytes on peripheral smear in microangiopathic hemolytic anemia. Recognize the characteristic laboratory findings of thrombotic thrombocytopenic purpura. Correlate hemolytic anemia, thrombocytopenia, and renal impairment with hemolytic uremic syndrome. Interpret coagulation profile abnormalities associated with disseminated intravascular coagulation.		MAHA, TTP, HUS, DIC

Self Directed Learning

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• Block-10 Module-20, Breast and Genetics (Theory)

Sr. No.	Teacher Name	Code	Specific Learning Objectives		
				DISCIPLINE	TOPIC
6	Dr. Kiran Mumtaz Lecture= 06	HIT-H-001	Describe the gross and microscopic anatomy of the breast. Explain normal hormonal influences on breast development and cyclical changes.		Breast
			Identify and describe common inflammatory conditions		
			Describe the pathology, clinical features, and prognosis of common benign lesions(Fibroadenoma, Phyllodes tumor , Intraductal papilloma)		

			Describe the etiology and risk factors for breast carcinoma. Classify common types of breast carcinoma.		
			Classify breast carcinoma on the basis of (ER/PR, HER2)		
Prof.Dr.Sabahat Haider Lecture 06			Discuss benign and malignant diseases of male breast & clinical presentation. Appreciate the role of pathology in treatment planning.		Genetics
			Define genetics and explain its importance in understanding disease mechanisms. Describe the main types of mutations and their molecular consequences.		
			Explain how mutations in structural protein genes cause connective tissue disorders. Describe the clinical and molecular features of Marfan syndrome.		
			Describe the genetic and biochemical basis of familial hypercholesterolemia. Explain how receptor defects alter lipid metabolism and lead to atherosclerosis.		
			Explain how enzyme deficiencies lead to substrate accumulation and cellular injury. Classify lysosomal storage diseases with key examples. Describe the pathogenesis and clinical features of Gaucher's disease.		
			Explain the genetic basis and clinical manifestations of Down syndrome. Explain the principles and applications of polymerase chain reaction (PCR). Describe methods for detecting specific DNA sequence alterations.		
			Describe the mechanism and clinical examples of trinucleotide repeat expansion disorders. Explain the concepts of genomic imprinting and associated disorders.		

Practical Lab Work

Sr. No.	Teacher Name	Code	Specific Learning Objectives	DISCIPLINE	TOPIC
10	Dr. Lubna Fazil		Identify and differentiate common benign breast lesions (e.g., fibroadenoma, fibrocystic change) on histopathological slides based on their key microscopic features. Recognize and diagnose breast carcinoma	Pathology	Breast Benign lesion, Breast carcinoma

			on histopathology slides and distinguish invasive carcinoma from benign breast lesions using morphological criteria.		
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TEACHING HOURS

- **Lecture structure:** 3.75 hrs/week (45min × 5 days)
- **Practical total:** 1.5hrs/week (45min x 2)
- **SDL:** 11.5 hrs/week (11.5 × 3)
- **Clinical Rotation:** 7.5hrs (7.5 x 3)
- **Total duration:** 32 weeks

Lecture breakdown

Module	Weeks	Lecture hrs/week	Total Hours
19 Hematopoietic & Lymphoid system	7	3.75	26
20 Breast & Genetics	5	3.75	19
21 Respiratory diseases & Renal system	5	3.75	19
22. Hepatobiliary system & GIT tumors	5	3.75	19
23. Reproductive & Endocrine tumors	5	3.75	19
14. Musculoskeletal system, Skin & CNS tumors	5	3.75	19
Total	32		121 hrs

Practical breakdown

We distribute 48 hours according to weeks per module:

Module	Weeks	Practical Hours
19	7	11
20	5	7.5
21	5	7.5
22	5	7.5
23	5	7.5
24	5	7.5
Total	32	48.5 hrs

SDL BREAKDOWN

Weeks	Hrs.
3.5	11.5

Clinical Rotation breakdown

Weeks	Hrs.
3.5	7.5

Total: 40.25+26.25=66.5

Final combined teaching table

Module	Weeks	Lectures (hrs)	Practicals (hrs)	Total Hours
19	7	26	11	37
20	5	19	7.5	26.5
22	5	19	7.5	26.5
23	5	19	7.5	26.5
24	5	19	7.5	26.5
25	4	24	7.5	26.5
Total	32	121	48.5	169.5+40.25+26.25= 236

Class	Total Hours
1styear MBBS	5hrs
2ndyear MBBS	9hrs
4thyear MBBS	236hrs
Total	250hrs

Interpretation

- Teaching is uniformly structured at 3.75 lecture hours per week across all modules
- Practical exposure is distributed proportionally to module duration
- Assessments are placed as three evenly spaced evaluation blocks
- Total academic load = 250 hours over 32 weeks

GUIDANCE BY NOTICES ISSUED REGARDING DETAILS OF LEARNING ACTIVITY

Nishtar Medical University Multan													
Academic Calendar Session 2026-2027													
April-26	May-26	June-26	July-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26					
1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30	30	30	30	30	30	30
	31		31			31			31			31	

NO: 506 / NMC DATED 27-04-2026
REVISED

TIME TABLE OF 4TH YEAR MBBS CLASS (N-72)
PLACE OF LECTURE : MK PASHA LECTURE THEATRE COMPLEX

Days	08:00 AM TO 08:45 AM	08:45 AM TO 09:30 AM	09:30 AM TO 10:15 AM
Monday	Community Medicine	Pathology (Lecture)	Pathology (Lecture)
Tuesday	Ophthalmology	Otorhinolaryngology	Community Medicine
Wednesday	Pathology (Lecture)	Pathology (Lecture)	Community Medicine
Thursday	Ophthalmology	Otorhinolaryngology	Paed. Medicine (08) Chest Disease (04) Dermatology (04) Cardiology (04) Psychiatry (04) Gastro (04) Neurology (04) Nephrology (04)
Friday	General Surgery (26) Paed Surgery (05) Plastic Surgery (05)	Community Medicine	Obst. & Gynae. (14) Oncology (08) Anesthesia (08) Radiology (06)
Saturday	Pathology (Practical)	Pathology (Practical)	Pathology (Lecture)

WARD PROGRAMME OF 4TH YEAR MBBS CLASS (N-72)
FOR THE SESSION 2025-26 W.E.F. 27.04.2026

Ward Time : 10:45 AM TO 02:00 PM (Monday to Thursday & Saturday)
Ward Time : 10:45 AM TO 12:00 Noon (Friday)

DEPARTMENT	27.04.26 TO 15.05.26	16.05.26 TO 05.06.26	06.06.26 TO 25.07.26	27.07.26 TO 13.08.26	15.08.26 TO 31.08.26
EYE	A	B	C	D	E
PATHOLOGY	B	C	D	E	A
E.N.T.	C	D	E	A	B
COMMUNITY MEDICINE	D	E	A	B	C
CLINICAL ROTATION (Medicine)	E	A	B	C	D

NOTE:-

- 75% of attendance in lectures & wards is mandatory to be eligible to appear in the 4th Professional MBBS examination.
- Regularity of attendance in lectures and clinical sessions will be reflected in internal assessment.

No. / 507-20

PRINCIPAL
NISHTAR MEDICAL COLLEGE, MULTAN
NMC., dated Multan the 27-04-2026

Copy forwarded for information, to:-

- All Head of concerned Deptts. Nishtar Medical College, Multan.
- Director Student's Affairs, Nishtar Medical College, Multan.
- Director, Department of Medical Education, Nishtar Medical College, Multan.
- Coordinator, 4th Year MBBS Class, Nishtar Medical University, Multan
- Incharge, Student's Section, Nishtar Medical College, Multan.
- All Notice Boards Nishtar Medical College, Multan.

PRINCIPAL
NISHTAR MEDICAL COLLEGE, MULTAN



OFFICE OF THE CHAIRPERSON
PATHOLOGY DEPARTMENT
NISHTAR MEDICAL UNIVERSITY, MULTAN



LECTURES ROSTER 2026 (N-72)

Every Thursday , Friday & Saturday 10:30 AM to 11:30 AM

Venue: Sir Syed Hall , MK Pasha

Date	Topic	Facilitator
09.04.26	Leucopenia & Leucoctytosis	Dr. Yasmeen Batool
10.04.26	Introduction to Red Blood Cells and Classification of Anemia	Dr. Qurrat Ul Ain
11.04.26	Acute Leukemia	Dr. Yasmeen Batool
16.04.26	MPN'S including CML	Dr. Yasmeen Batool
17.04.26	VWD, Hemophilia & ITP	Dr. Sabeen Fatima
18.04.26	MAHA & DIC	Dr. Sabeen Fatima
23.04.26	MDS	Dr. Yasmeen Batool
24.04.26	Blood Grouping & Transfusion Reactions	Dr. Sabeen Fatima
25.04.26	Iron Deficiency Anemia	Dr. Qurrat Ul Ain
30.04.26	Non Hodgkin Lymphoma, Follicular , Mantle, Burkitt	Dr. Yasmeen Batool
02.05.26	Megaloblastic Anemia	Dr. Qurrat Ul Ain
07.05.26	Chronic Lymphocytic Leukemia Hairy Cell Leukemia	Dr. Yasmeen Batool
08.05.26	ACD & Aplastic Anemia	Dr. Qurrat Ul Ain
09.05.26	Hemolytic Anemia Alpha & Beta Thalassaemia	Dr. Qurrat Ul Ain
14.05.26	Hodgkin Lymphoma	Dr. Yasmeen Batool
15.05.26	Sickle Cell Anemia	Dr. Qurrat Ul Ain
16.05.26	Hereditary Disorder of RBCs Membrane and Metabolism	Dr. Qurrat Ul Ain
21.05.26	Multiple Myeloma	Dr. Yasmeen Batool
22.05.26	Introduction to Breast	Dr. Kiran Mumtaz
23.05.26	Introduction to Genetics	

Yasmeen Batool
DR. YASMEEN BATOOL & DR. QURRA TUL AIN,
Coordinators 4th Year MBBS
Pathology Department
Nishtar Medical University Multan

for Yasmeen Batool
PROF. DR. ASGHAR JAVAID
Chairperson , Pathology Deptt
Nishtar Medical University MN

OFFICE OF THE CHAIRPERSON
PATHOLOGY DEPARTMENT
NISHTAR MEDICAL UNIVERSITY, MULTAN

No. _____ Path/NMU Dated: 21-4-2026

SMALL GROUP DISCUSSION ROSTER 4TH YEAR MBBS
Small Group Discussion Topic 4th Year MBBS (N-72), 2026
Time: 08:00-10:30 AM Venue: Pathology Lab (college)

S. No	DATE	Time	PRESENTER	TOPICS	Signature
1.	23-04-26	08:00-10:30 AM	Dr. Lubna	Breast lesions (benign & malignant), Breast carcinomas	
2.	24-04-26	08:00-10:30 AM	Dr. Iqra	COPD, ILD, Pneumonia	
3.	25-04-26	08:00-10:30 AM	Dr. Imran Hashmi	Bronchitis, Emphysema, ARDS	
4.	27-04-26	08:00-10:30 AM	Dr. Unaiza	TB, Lung abscess, Anthracosis, Lung cancer	
5.	28-04-26	08:00-10:30 AM	Dr. Javaid	Liver failure, Cholestasis, (acute/chronic), Cholelithiasis	
6.	29-04-26	08:00-10:30 AM	Dr. Javaid	HCC, Liver cirrhosis	
7.	30-04-26	08:00-10:30 AM	Dr. Hira	Renal ARF/CRF (lab diagnosis), Urothelial tumors, RCC	
8.	02-05-26	08:00-10:30 AM	Dr. Hira	Glomerulonephritis (acute/chronic), pyelonephritis	
9.	04-05-26	08:00-10:30 AM	Dr. Nadia	CA Colon polyp (benign/malignant lesion)	
10.	05-05-26	08:00-10:30 AM	Dr. Nadia	Esophageal/oral cavity lesions, Gastric carcinoma	
11.	06-05-26	08:00-10:30 AM	Dr. Imrana	Uterine tumors, Ovarian tumors (leiomyoma, leiomyosarcoma), GCT	
12.	07-05-26	08:00-10:30 AM	Dr. Imrana	Endometrial CA, PCOS, CIN	
13.	08-05-26	08:00-10:30 AM	Dr. Neelam	Thyroid adenoma, Follicular & Papillary CA	
14.	09-05-26	08:00-10:30 AM	Dr. Imran	BCC, SCC, Malignant melanoma	
15.	11-05-26	08:00-10:30 AM	Dr. Neelam	Lab diagnosis, DM, DKA, Renal profile	
16.	12-05-26	08:00-10:30 AM	Dr. Kazim	Lab Diagnosis and interpretation of ICT Malaria, Dengue, Hepatitis B, C and HIV	
17.	13-05-26	08:00-10:30 AM	Dr. Kazim	Lab diagnosis of MI, Lipid profile, Cardiac profile, Lab Diagnosis of Hepatic Profile, Hepatitis, Jaundice	
18.	14-05-26	08:00-10:30 AM	Dr. Kazim	Male seminoma, Non-seminoma, BPH, Prostate CA	
19.	15-05-26	08:00-10:30 AM	Dr. Unaiza	CNS tumors	
				Lab diagnosis, Addison's, Cushing's, Pituitary	
				Osteomyelitis, Osteogenic sarcoma	

Note: -Facilitators can mutually exchange the day with prior notice to coordinator and HOD.
-Facilitators are guided to get review of their SGD presentations/material by concerned section supervisors/consultants one week before date of respective SGD.
-Mutual Exchange of duties is allowed after prior permission of HOD.

Prof. Dr. Asghar Javaid
Chairperson Pathology Department
Nishtar Medical University, Multan

21/4/26

OFFICE OF THE CHAIRPERSON
PATHOLOGY DEPARTMENT
NISHTAR MEDICAL UNIVERSITY, MULTAN

No. _____ Path/NMU Dated: _____ 2026

SMALL GROUP DISCUSSION ROSTER 4TH YEAR MBBS
Small Group Discussion Topic 4th Year MBBS (N-72), 2026
Time: 08:00-08:45 AM AND 08:45-9:30AM Venue: Sir Syed hall

(MK Pasha)

S. No	DATE	Time	PRESENTER	TOPICS	Signature
1.	02-05-26	08:00-08:45AM	Dr. Aruba	leukaemias	
2.	02-05-26	08:45-09:30 AM	Dr. Aruba	lymphomas	
3.	09-05-26	08:00-08:45AM	Dr. Imrana	MPNs	
4.	09-05-26	08:45-09:30 AM	Dr. Nadia	multiple myeloma, MDS	
5.	16-05-26	08:00-08:45 AM	Dr. Lubna	Breast lesion benign and malignant	
6.	16-05-26	08:45-09:30 AM	Dr. Unaiza	Genetics	
7.	23-05-26	08:00-08:45AM	Dr. Hira	MAHA, TTP, HUS, DIC	
8.	23-05-26	08:45-09:30AM	Dr. Imran	Alpha/beta thalassemia, sickle cell anemia	
9.	06-06-26	08:00-08:45 AM	Dr. Javaid	Aplastic anemia, TTP	
10.	06-06-26	08:45-09:30 AM	Dr. Imrana	Transfusion reactions and blood grouping	
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					

Note: -Facilitators can mutually exchange the day with prior notice to coordinator and HOD.
-Facilitators are guided to get review of their SGD presentations/material by concerned section supervisors/consultants one week before date of respective SGD.
-Mutual Exchange of duties is allowed after prior permission of HOD.

Prof. Dr. Asghar Javaid
Chairperson Pathology Department
Nishtar Medical University, Multan

Assessment Policy and Examination Structure

The Fourth Year MBBS curriculum is organized according to modular system. The academic year is divided into three blocks, and each block consists of two modules.

Assessment is conducted throughout the year to evaluate students' knowledge, practical skills, clinical competence, and professional behavior.

Examination Schedule

Mid-Block Assessment

After completion of Module 1, students will appear in a:

Mid-Block Written Examination. The examination includes MCQs, SAQs. This assessment covers the syllabus taught in Module 1.

Final Block Assessment

After completion of Module 2, students will appear in the:

Final Block Examination. The final block examination consists of:

Written Examination(MCQs, SAQs)

Practical/Clinical Examination & Viva Voce

The final Block examination covers the complete syllabus of both modules within the block. Subjects Included Major Subjects, Pathology, Community, Medicine, Ophthalmology (Eye), ENT Minor Subjects: Biochemistry, Physiology, Anatomy

Distribution of Marks

Total Marks of Fourth Professional MBBS

Total = 1000 Marks

Papers	Marks (marks)	Theory (marks)	Viva&OSPE (marks)	Total Marks (marks+I.A)
Paper-I(Block-10)	300	150	150	1000 (900+100)
Paper-II(Block-11)	300	150	150	
Paper-III(Block-12)	300	150	150	

*I.A=Internal assessment

Subjects	PAPER-I (Block-10)		PAPER-II (Block-11)		PAPER-III (Block-12)		Total subject wise		Total Marks
	Marks	Internal assessment 10%	Marks	Internal assessment 10%	Marks	Internal assessment 10%	Marks	Internal assessment 10%	
	300	34 marks	300	33 marks	300	33 marks	900	100	
Special Pathology	80	10	80	10	80	10	240	30	270
Community Medicine	85	10	85	10	85	10	255	30	285
ENT	60	7	60	6.5	60	6.5	180	20	200
EYE	60	7	60	6.5	60	6.5	180	20	200
Anatomy	05	0	05	0	05	0	15	0	15
Physiology	05	0	05	0	05	0	15	0	15
Biochemistry	05	0	05	0	05	0	15	0	15

Table-IV BLOCK- X										
	Community Medicine		Special pathology		ENT	EYE	Anatomy	Physio	Biochem	Total
MCQ (1 Mark (each)	20		20		10	10	05	05	05	75
SEQs (5 Marks each)	5x5=25		4x5=20		3x5=15	3x5=15				75
Written (MCQs + SEQs)	20+25=45		20+20=40		10+15=25	10+15=25				150
OSPE (5 Marks for unobserved)	3x5=15	1x5=5	3x5=15	1x5=5	3x5=15	3x5=15				70
	Unobserved	Observed	Unobserved	Observed	Un-observed	Un-observed				
	20		20		15	15				
VIVA	09+09+02=20		09+09+02=20		09+09+02=20	10+10= 20				80
OSPE+ viva	20+20=40		20+20=40		15+20	15+20				150
Internal Assessment	10		10		7	7				34
Subject vise Marks	95		90		66. 5	66. 5	05	05	05	334

Table-V

BLOCK-XI- XII

	Community Medicine		Special pathology		ENT	EYE	Anatomy	Physio	Biochem	Total
MCQ (1 Mark each)	20		20		10	10	05	05	05	75
SEQs (5 Marks each)	5x5=25		4x5=20		3x5=15	3x5=15				75
Written (MCQs + SEQs)	20+25=45		20+20=40		10+15=25	10+15=25				150
OSPE (5 Marks for unobserved)	3x5=15	1x5=5	3x5=15	1x5=5	3x5=15	3x5=15				70
	Unobserved	Observed	Unobserved	Observed	UnObserved	UnObserved				
	20		20		15	15				
VIVA	09+09+02=20		09+09+02=20		09+09+02=20	10+10=20				80
OSPE+ viva	20+20=40		20+20=40		15+20	15+20				150
Internal Assessment	10		10		6.5	6.5				33
Subject wise Marks	95		90		66.5	66.5	05	05	05	333



PATHOLOGY :

- Vinary Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pathologic basis of disease. WB Saunders.
- Robbins and Cotran Pathological Basis of Disease. Kumar, V., Abbas, A. and Aster, J. Latest Edition
- Richard Mitchall, Vinary Kumar, Abul K. Abbas and Nelson Fausto Robbins and Cotran, Pocket Companion to Pathologic basis of diseases, Saunder Harcourt.
- Walter and Israel. General Pathology. Churchill Livingstone.
- Robbins & Kumar, Medical Microbiology and Immunology Levinson.



Feedback form

NISHTAR MEDICAL UNIVERSITY, MULTAN **Student Feedback Proforma for Lecture Evaluation**

(4th year MBBS)

Department: _____ Subject: _____

Name of Teacher: _____ Date: _____

Topic of Lecture: _____

Instructions:

Please tick (✓) the option that best reflects your opinion.

Key;

A: Strongly Agree B: Agree C: Uncertain D: Disagree E: Strongly Disagree

Sr. No	Statement	A	B	C	D	E
1	Specific learning objectives of the lecture were shown at the start.					
2	The teacher used audio visual aids effectively.					
3	The teacher showed demonstration when required.					
4	The teacher provided additional material apart from the textbook.					
5	The teacher gave citations regarding current situations with reference to Pakistani context.					
6	The teacher communicated the subject matter effectively.					
7	The teacher showed respect towards students and encouraged class participation.					

8	The teacher maintained an environment that was conducive to learning.					
9	The teacher arrived on time.					
10	The teacher left on time.					
11	Teacher completed specific learning objectives.					

12	The timing for consultant were specified.					
13	The subject matter presented in the lecture has increased your knowledge of the subject.					
14	The lecture clearly stated course requirements.					
15	The lecture integrated theoretical course concepts with real-world applications.					
16	The lecture material was up to date.					

Comments/Suggestion for improvement: _____