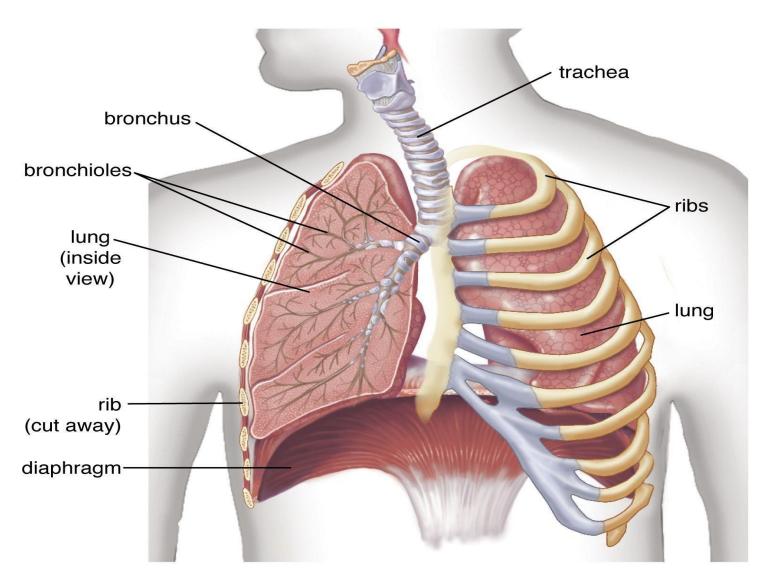


LIAQUAT NATIONAL HOSPITAL AND MEDICAL COLLEGE

Institute for Postgraduate Medical Studies & Health Science



RESPIRATORY II MODULE 28th July 2025 TO 20th August 2025



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STUDY GUIDE FOR RESPIRATORY II MODULE

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Module name: Respiratory II Year: Three Duration: 4 weeks (Jul-Aug 2025)

Timetable hours: Lectures, Case-Based Integrated Learning (CBIL), Clinical Rotations, learning experience in LNH outreach centers, Laboratory, Practical, Demonstrations, Skills, Self-Directed Learning

MODULE INTEGRATED COMMITTEE

MODULE COORDINATOR:	 Professor Tabassum Zehra (Pharmacology)
CO-COORDINATORS:	Dr. Fatima Rehman (Anatomy)Dr. Syed Asad Sibtain (DHPE)

DEPARTMENTS & RESOURCE PERSONS

	BASIC HEALTH SCIENCES	
	COMMUNITY MEDICINE Dr. Saima Zainab	
	FORENSIC MEDICINE Professor Syed Mukkaram A	Ali
	MICROBIOLOGY Professor Shaheen Sharafat	
	PATHOLOGY Professor Naveen Faridi	
	PHARMACOLOGY Professor Tabassum Zehra	
	CHEST MEDICINE Professor Dr. Syed Ali Arsalan	
	THORARCIC SURGERY Dr. Syed Mahmood Ul Haq	
	DEPARTMENT of HEALTH PROFESSIO	ONS EDUCATION
Professor Sobia Ali	Professor Nighat Huda	Dr. Afifa Tabassum
Dr. Yusra Nasir	Dr. Syed Asad Sibtain	Dr. Asra Zia
	LNH&MC MANAGEMENT Professor K.U. Makki, Principal, LNH&l Dr. Shaheena Akbani, Director A.A & R	

INTRODUCTION

WHAT IS A STUDY GUIDE?

It is an aid to:

- Inform students how the student learning program of the module has been organized
- Help students organize and manage their studies throughout the module
- Guide students on assessment methods, rules, and regulations.

THE STUDY GUIDE:

- Communicates information on the organization and management of the module. This will help the student to contact the right person in case of any difficulty.
- Define the objectives which are expected to be achieved at the end of the module.
- Identifies the learning strategies such as Interactive Lectures, small group teachings, clinical skills, demonstrations, tutorials, and case-based learning that will be implemented to achieve the module objectives.
- Provide a list of learning resources such as books, computer- assisted learning programs, web- links, and
 journals, for students to consult to maximize their learning.
- Highlights information on the contribution of continuous and module examinations on the Student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's achievement of objectives.
- Focuses on information about examination policy, rules, and regulations.

CURRICULUM FRAMEWORK

Students will experience an integrated curriculum.

INTEGRATED CURRICULUM comprises system-based modules such as the Locomotor system, Respiratory System, and Cardiovascular system which links basic science knowledge to clinical problems. Integrated teaching means that subjects are presented as a meaningful whole. Students will be able to have a better understanding of basic sciences when they repeatedly learn concerning clinical examples.

Case-based discussions, computer-based assignments, early exposure to clinics, wards, and skills acquisition in skills lab are characteristics of integrated teaching programs.

LEARNING METHODOLOGIES

The following teaching/learning methods are used to promote better understanding:

- Interactive Lectures
- Tutorial
- Case- Based Learning (CBL)
- Clinical Experiences
 - Clinical Rotations
- Skills session
- Self-Directed Learning

INTERACTIVE LECTURES: In a large group, the Interactive Lectures introduce a topic or common clinical conditions and explains the underlying phenomena through questions, pictures, videos of patients' interviews, exercises, etc. Students are actively involved in the learning process.

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

CASE-BASED LEARNING (CBL): A small group discussion format where learning is focused on a series of questions based on a clinical scenario. Students discuss and answer the questions by applying relevant knowledge gained previously in clinical and basic health sciences during the module and constructing new knowledge. The CBIL will be provided by the concerned department

CLINICAL LEARNING EXPERIENCES: In small groups, students observe patients with signs and symptoms in hospital wards, clinics, and outreach centers. This helps students to relate knowledge of basic and clinical sciences of the module and prepare for future practice.

CLINICAL ROTATIONS: In small groups, students rotate in different wards like Medicine, Pediatrics, Surgery, Obs, and, Gyne, ENT, Eye, Family Medicine clinics, outreach centers & Community Medicine experiences. Here students observe patients, take histories and perform supervised clinical examinations in outpatient and inpatient settings. They also get an opportunity to observe medical personnel working as a team. These rotations help students relate basic medical and clinical knowledge in diverse clinical areas.

SKILLS SESSION: Skills relevant to the respective module are observed and practiced where applicable in the skills laboratory.

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

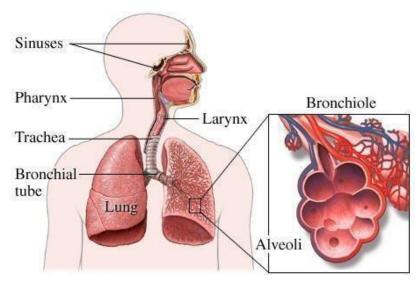
MODULE 4: RESPIRATORY II

RATIONALE

The Respiratory System II (RES II) module is designed to consolidate, and build on the First year Respiratory I module which covered basic medical sciences concepts for understanding the causes and treatment of diseases.

Tuberculosis is considered to be a major cause of ill health in Pakistan. The annual incidence rate of infectious Tuberculosis cases is estimated to be between 85-100/100,000 persons.¹The exact prevalence of COPD in Pakistan is not known, but a large number of patients attend outpatient and emergency departments across most of the country. The socio economic burden of COPD is considerable. A part from smoking, urban air pollution is an important cause of COPD.²Pakistan at present falls in to a low risk lung cancer region in females and a moderate risk region for males and the highest registered increase between 1995 and 2002 was observed in the older age groups (65+).³

RES (II) will focus on the respiratory system, its associated diseases, treatment options, and prevention of the diseases such as obstructive lung diseases, hypersensitivity related diseases, pulmonary infections, respiratory failure and restrictive lung diseases. The community medicine learning will aim at sessions on preventive medicine and various program such as TB, DOTS and National tuberculosis control program of Pakistan. The module will enable students to relate their theoretical knowledge to real practice through common clinical presentations, case-based discussions, interactive lectures, patient interactions and simulated-based learning.



- 1. DeMuynck A,SiddiqiS, Ghaffar A, SadiqH.Tuberculosiscontrolin Pakistan: critical analysis of its implementation. JPak Med Assoc. 2001Jan;51(1):41-7.
- 2. AnwarSK,MehmoodN,NasimN,KhurshidM,KhurshidB.Sweeper'slungdisease: across-sectionalstudyof an overlooked illness among sweepers ofPakistan.Internationaljournal of chronic obstructive pulmonary disease. 2013; 8:193
- 3. BhurgriY,BhurgriA,UsmanA,SheikhN,FaridiN,MalikJ,AhmedR,KayaniN,PervezS,HasanSH.Patho -epidemiology of lung cancer in Karachi (1995-2002). Asian Pacificjournal of cancer prevention. 2006 Jan 25;7(1):60.

COURSE OBJECTIVES AND STRATEGIES

At the end of the module the students will be able to:

COMMUNITY MEDICINE

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Introduction to Occupational health & Diseases	
Describe occupational health	
Classify occupational health diseases	
Discuss measures for prevention and control of occupational health diseases	
Describe Lead poisoning	
2. Pneumoconioses and its prevention	
Define pneumoconioses	
List pneumoconioses diseases	Tutorial
Discuss the control and prevention of pneumoconioses	Tutoriai
3. Pulmonary tuberculosis and its prevention	
Discuss the causative organism of tuberculosis	
Explain why Tuberculosis remains a world-wide problem	
List Epidemiological Indices of tuberculosis	
Explain TB-DOTS Therapy	
Discuss Tuberculosis situation in Pakistan	
Discuss the control and prevention of tuberculosis	
4. Asthma and its prevention	
Describe Asthma	
Explain the clinical features & diagnosis criteria of Asthma	
Discuss the control and prevention of Asthma	
5. Chicken pox and its prevention	
Describe Chicken pox disease	
Describe the epidemiology, clinical features and diagnosis criteria of Chicken pox	
Discuss the control and prevention of Chicken pox	
6. Influenza and its prevention	1
Describe influenza	Interactive Lecture
Discuss the history of Spanish flu pandemic	Lecture
Describe the epidemiology, clinical features and diagnosis criteria of influenza	
Discuss the control and prevention of influenza	
7. Diphtheria and its prevention	
Discuss the epidemiology of Diphtheria	
Explain the risk factors, consequences & clinical features of Diphtheria	
Discuss the control and prevention of Diphtheria	
8. Measles and its prevention	
Describe the etiology, epidemiology and clinical features of measles	

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LIAQUAT NATIONAL MEDICAL COLLEGE	3" YEAR WIBBS, RESPIRATORYI	I MODULE
Explain the diagnostic criteria of measles		
Discuss the control and prevention of measles		
9. Pertussis and its prevention		
Describe the etiology, epidemiology and clinical features of pertussis		
Explain the diagnostic criteria of pertussis		
sedative Discuss the control and prevention of pertussis		
10. Air Pollution		
Discuss the situation of air pollution		
List the sources of air pollution		
Explain the effects of air pollution on health		
Discuss the concept of greenhouse effects		
Describe the concept of global warming and ozone depletion		
Discuss the methods to control air pollution		
11. Pneumonia, SARS & COVID-19		
Define pneumonia		
Classify different types of pneumonia		
Explain the mode of transmission and predisposing factors of pneumonia		
 Describe the measures for control and prevention of Pneumonia and SARS 	5	Tutorial
Describe COVID-19		
Discuss the epidemiology of COVID-19		
Explain clinical features of COVID-19		
Describe the measures for control and prevention of COVID-19		
12. Tobacco Control		
Discuss the health effects of Tobacco		
List the objectives of Tobacco Free Initiative of Pakistan		Interactive
Define passive smoking and pack years classification of Smoking		Lecture
Describe the model of behavior change for Smoking		
Cessation and MPOWER strategy of tobacco control		
Discuss WHO's "Tobacco-Free Initiative"		

FORENSIC MEDICINE

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Asphyxia I	
Define asphyxia	
Summarize the etiology, pathophysiology and classic signs of asphyxia	
Enumerate the different types of asphyxia and violent asphyxial deaths	
Classify tissue anoxia according to Gordon's classification	
List the different types of hanging	
Explain the autopsy findings and medicolegal importance of hanging	
Differentiate between ante-mortem and post-mortem hanging	Interactive
2. Asphyxia II	interactive
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LIAQUAT NATIONAL MEDICAL COLLEGE 3 rd YEAR MBBS, RESPIRATORY	II MODULE
Diagnose strangulation, throttling, suffocation, smothering, gagging and choking based on scenarios	Lecture
Discuss the mechanism, diagnostic features, and autopsy findings of traumatic asphyxia	-
3. Asphyxia III	-
Define the types, mechanism and postmortem findings of drowning	-
Describe the causes of death due to drowning	
Highlight the importance of diatoms in deaths by drowning	
Define Sexual asphyxia (auto-erotic hanging)	
4. Toxicology- Organophosphate insecticides poisoning	
List commonly used insecticides	
Classify organophosphate compounds	
Describe the mode of action, signs and symptoms, treatment, postmortem findings and medico legal importance of organophosphate and Carbamate poisoning	
5. Toxicology- Chloro group of insecticides (D.D.T.)	
Describe the mode of action, signs, symptoms, treatment and postmortem findings of DDT Poisoning	
6. Spinal Poisons	
• Describe the mode of action, signs and symptoms, treatment, postmortem findings and medico legal aspects of poisoning by Strychnine and other spinal poisons	Tutorial
7. Barbiturates and tranquilizers	
Describe the mode of action, signs and symptoms depending upon concentration in blood,	Interactive
treatment and postmortem findings of poisoning by Barbiturates and tranquilizers (therapeutic poisons)	Lecture
8. Toxicology- Irrespirable /Asphyxiants gases I (CO2 & Sewer gas poisoning)	
 Describe the mode of action, signs and symptoms, treatment, postmortem findings and medico legal aspects of CO2 & sewer gas poisoning 	
9. Toxicology- Irrespirable/Asphyxiants gases II (Carbon monoxide, Hydrogen sulphide and War gases poisoning)	
List the sources of Carbon monoxide	
 Describe the mode of action, signs and symptoms, treatment, postmortem findings and medico legal aspects of Carbon monoxide and hydrogen Sulphide poisoning 	
Classify war gases	Tutorial
Describe lacrimators and their treatment	
10. Toxicology-Aluminum Phosphide & Paraquat poisoning	
List the sources of Aluminum phosphide and Paraquat	
Describe the mode of action, signs, symptoms, treatment, postmortem findings and medico legal aspects of Aluminum phosphide and Paraquat poisoning	
11. Toxicology Naphthalene Poisoning	
• Describe the mode of action, signs, symptoms, treatment, postmortem findings and medico legal aspects of Naphthalene poisoning	

PATHOLOGY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Congenital Anomalies of respiratory system, Atelectasis, Pulmonary edema	
Define Atelectasis and Pulmonary edema	
List the types of congenital anomalies, Atelectasis and Pulmonary edema	
 Describe the embryologic pathology, microscopic and clinical features of Congenital anomalies of Respiratory system 	Interactive Lecture
Discuss the classification, pathogenesis, morphology, causes and clinical features of Atelectasis and Pulmonary edema	
Differentiate between pathogenesis of hemodynamic and micro vascular alveolar injury	
2. Acute lung injury (ALI) and acute respiratory distress syndrome (ARDS)	
Define ARDS and ALI	
List the conditions associated with development of ARDS	
Discuss pathogenesis, morphological and clinical features of ARDS / ALI	_
3. Obstructive lung diseases I (emphysema, chronic bronchitis)	
Define emphysema and chronic bronchitis	
Classify emphysema	
• Describe the various clinical forms of emphysema.	
 Discuss the etiology, pathogenesis, morphology and clinical features of emphysema and chronic bronchitis 	
4. Obstructive lung diseases II (asthma, and bronchiectasis)	
Define asthma and bronchiectasis	
Classify asthma	
List the causes of asthma and bronchiectasis	
• Discuss the etiology, pathogenesis, morphology and clinical features of asthma and bronchiectasis	
5. Chronic Interstitial restrictive lung diseases	
Define restrictive diseases of lung (idiopathic pulmonary fibrosis, Nonspecific Interstitial	
Pneumonia, Cryptogenic Organizing Pneumonia, pneumoconioses and Pulmonary Involvement in Autoimmune Diseases)	
Classify restrictive diseases of lung	
 Discuss the etiopathogenesis, morphology and clinical features of Chronic Interstitial restrictive lung diseases (idiopathic pulmonary fibrosis, Nonspecific Interstitial Pneumonia, Cryptogenic Organizing Pneumonia, pneumoconioses and Pulmonary Involvement in Autoimmune Diseases) 	
6. Pneumoconioses	
Define Pneumoconioses	
List the causative agents of Pneumoconioses	
Discuss the pathogenesis, morphology and clinical features of Pneumoconioses	
7. Granulomatous diseases (Sarcoidosis, hypersensitivity pneumonitis, pulmonary eosinophilia, Smoking related interstitial diseases)	
Define granulomatous diseases (Sarcoidosis)	1

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Classify granulomatous diseases (Sarcoidosis)	
Discuss the pathogenesis, morphology and clinical features of Granulomatous diseases	
8. Pulmonary Infections (Pneumonia)	
Define pneumonia	
 Classify pneumonia. (community acquired pneumonia, hospital acquired pneumonia, healthcare associated pneumonia, aspiration pneumonia, chronic pneumonia, necrotizing pneumonia and pneumonia in the immunocompromised host) 	
 Discuss the morphology, pathogenesis, clinical features and diagnosis of Pulmonary Infections (Pneumonia) 	
Discuss briefly aspiration pneumonia and lung abscess	
9. Pulmonary tuberculosis	
Define Pulmonary tuberculosis	
Discuss the morphology, pathogenesis, clinical features (primary, secondary latent and miliary) laboratory investigations of pulmonary tuberculosis	
10. Lung Tumors	
Describe lung tumors (Squamous cell carcinoma, small cell carcinoma, adenocarcinoma, large cell carcinoma)	
Classify lung tumors according to WHO	
Discuss the risk factors, pathogenesis, morphology, clinical features of lung tumors	
Discuss briefly the staging & grading of carcinoma	
11. Pleural pathology (pleural effusion, Pneumothorax, pleural tumors)	Interactive
Discuss briefly pleural effusion and pneumothorax	Lecture/
Discuss the pathogenesis, morphology and clinical course of pleural tumors	Tutorial
12. Pulmonary vascular diseases	
Define pulmonary vascular diseases (pulmonary embolisms, hemorrhage, infarction, hypertension and diffuse pulmonary hemorrhage syndrome)	Interactive Lecture
List the risk factors of pulmonary vascular disease	Lecture
Discuss the pathogenesis, morphology and clinical features of pulmonary vascular disease	
13. Histopathology of Chronic Obstructive Pulmonary Disease (COPD)	
Discuss the histopathology of Chronic Obstructive Pulmonary Disease	
14. Histopathology of pneumonia	
Discuss the etiology and morphology of pneumonia.	
Discuss the etiology and morphology of pneumonia. 15. Histopathology of Pulmonary Tuberculosis	
Discuss the etiology and morphology of pneumonia.	Practical
 Discuss the etiology and morphology of pneumonia. 15. Histopathology of Pulmonary Tuberculosis Discuss detailed morphology and pathogenesis of Pulmonary Tuberculosis 16. Pathology of lung tumors 	Practical
Discuss the etiology and morphology of pneumonia. Histopathology of Pulmonary Tuberculosis Discuss detailed morphology and pathogenesis of Pulmonary Tuberculosis Pathology of lung tumors Discuss the etiology, morphology and manifestations of lung tumors.	Practical
 Discuss the etiology and morphology of pneumonia. 15. Histopathology of Pulmonary Tuberculosis Discuss detailed morphology and pathogenesis of Pulmonary Tuberculosis 16. Pathology of lung tumors Discuss the etiology, morphology and manifestations of lung tumors. 17. Types of Hemolysis 	Practical
Discuss the etiology and morphology of pneumonia. Histopathology of Pulmonary Tuberculosis Discuss detailed morphology and pathogenesis of Pulmonary Tuberculosis Pathology of lung tumors Discuss the etiology, morphology and manifestations of lung tumors.	Practical
 Discuss the etiology and morphology of pneumonia. 15. Histopathology of Pulmonary Tuberculosis Discuss detailed morphology and pathogenesis of Pulmonary Tuberculosis 16. Pathology of lung tumors Discuss the etiology, morphology and manifestations of lung tumors. 17. Types of Hemolysis 	Practical

MICROBIOLOGY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Classification of streptococci and Streptococcus Pneumoniae	
Discuss the classification of streptococci and important properties, transmission, epidemiology, & pathogenesis of Streptococcus pneumoniae	
Describe clinical findings and laboratory diagnosis of Streptococcus pneumoniae infection	
Discuss treatment and prevention of Streptococcus pneumoniae infection	Interactive
2. Fungi Causing Pneumonia (Coccidioides, Histoplasma, Blastomyces, Paracoccidioides, Aspergillus, Pneumocystis, Mucor and Rhizopus)	Lecture
Discuss the properties of fungi causing systemic fungal diseases	
Discuss the process of transmission, pathogenesis, and clinical findings of these fungal infections	
Discuss the epidemiology of these fungal infections	
Discuss the laboratory diagnosis, treatment and prevention of fungi causing pneumonia	
3. Mycobacterium Tuberculosis	
Discuss the important properties, transmission, epidemiology, & pathogenesis of Mycobacterium Tuberculosis and Mycobacterium Leprae	
Describe clinical findings and laboratory diagnosis of M. Tuberculosis and M. Leprae	
Discuss treatment and prevention of M. Tuberculosis and M. Leprae	
4. Mycobacterium Leprae and Atypical Mycobacteria	
Discuss the important properties, transmission, epidemiology, & pathogenesis of Mycobacterium Leprae	
Describe clinical findings and laboratory diagnosis of M. Leprae	
Discuss treatment and prevention of M. Leprae	
Describe briefly Atypical Mycobacteria	
5. Gram positive rods ((Corynebacterium diphtheriae and Listeria monocytogenes, Bacillus and Clostridium)	
Discuss the important properties, transmission, epidemiology, & pathogenesis of (Corynebacterium diphtheriae and Listeria monocytogenes, Bacillus and Clostridium	
Describe the clinical findings and laboratory diagnosis of infections caused by these bacteria	
Discuss treatment and prevention of Corynebacterium diphtheriae and Listeria monocytogenes, Bacillus and clostridium	
6. Gram negative rods (Haemophilus, Bordetella, Legionella)	
Discuss the important properties, transmission, epidemiology, & pathogenesis of Gram negative rods	
Describe clinical findings and laboratory diagnosis of Gram negative rods	
Discuss treatment and prevention of Gram negative rods	
7. Respiratory viruses (Influenza and Parainfluenza, Respiratory Syncytial virus Coxsackie, Adenoviruses, SARS AND SARS II COVID 19)	
• Discuss the important properties, transmission, epidemiology, & pathogenesis of respiratory virus.	

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- Describe replication cycle, clinical findings and laboratory diagnosis of respiratory virus
- Discuss treatment and prevention of respiratory virus
- Discuss SARS & SARS II (COVID 19)

8. Childhood viruses (Measles, Mumps, Rubella)

- Discuss the important properties, transmission, epidemiology, & pathogenesis of childhood viruses
- Describe replication cycle, clinical findings and laboratory diagnosis of childhood viruses
- Discuss treatment and prevention of childhood viruses

9. Respiratory virus Parainfluenza (adeno, Corona, rhino)

- Discuss the important properties, transmission, epidemiology, & pathogenesis of Parainfluenza virus
- Describe replication cycle, clinical findings and laboratory diagnosis of parainfluenza virus
- Discuss treatment and prevention of parainfluenza virus

10. Bacteria causing atypical pneumonia (nocardia, actinomycetes and mycoplasma)

- Define atypical pneumonia
- Discuss the important properties, pathogenesis of Actinomycetes and Mycoplasma
- · Describe clinical findings and laboratory diagnosis of Actinomycetes and Mycoplasma
- Discuss treatment and prevention of Actinomycetes and Mycoplasma

PHARMACOLOGY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Drugs used in the treatment of Bronchial Asthma & COPD	
Classify drugs used in the treatment and prevention of bronchial asthma and COPD	
Discuss the treatment of bronchial asthma and COPD.	
Discuss the basic and clinical pharmacology of drugs used in the treatment of bronchial asthma	
2. Drug used in the treatment of Tuberculosis and Leprosy	
Classify anti-tuberculosis and anti-leprosy drugs	
Discuss the therapeutic classification of Anti-Tuberculosis Therapy (ATT) according to WHO	
Describe mode of action, toxicity and contraindications of ATT	
Describe the drugs used in multi-drug resistant tuberculosis	
Explain the drug management of extensive multi-drug resistant tuberculosis	Interactive Lecture/ Tutorial
Describe the mode of action, pharmacokinetics, toxicity, contraindications and drug-drug interactions of anti-leprosy drugs	Tutoriai
Discuss anti-tuberculosis and anti-leprosy drugs with regards to their basic and clinical pharmacology	
3. Histamine & Anti-Histamines	
Discuss the properties and role of histamine	
Classify anti-histamines	
Discuss their basic & clinical pharmacology	
4. Anti-Tussives & Mucolytics (Expectorants)	
Describe the anti-tussives & mucolytic drugs	
Discuss their basic and clinical pharmacology	
• Explain the role of anti-tussives and mucolytic drugs in respiratory tract diseases.	
Discuss the basic and clinical pharmacology of anti-tussives and mucolytic drugs	
5. Methods of Administration of drugs in treatment of bronchial Asthma	
 Demonstrate the different methods of administration of drugs used in the treatment of bronchial asthma 	
Discuss their clinical importance	Practical
6. Effects of Histamine and Anti-histamine/Salbutamol on isolated trachea of Rabbit	ractical
Demonstrate the pharmacological action of histamine and anti-histamine drugs on isolated trachea of Rabbit	
Compare these actions with Salbutamol by using Power Lab System	

CHEST MEDICINE

	TOPICS & OBJECTIVES	LEARNING STRATEGIES
1.	Asthma	
	 Describe the clinical features, differential diagnosis, complications, grading and investigations for Asthma 	
	Discuss the emergency and long-term treatment of Asthma	
2.	Chronic Obstructive Pulmonary Disease	
	 Describe the etiology, clinical features, investigations for Chronic Bronchitis and Emphysema 	
	Discuss the treatment plan for each of these conditions	Interactive
3.	Pneumonia	Lecture
	Classify Pneumonia	
	• Explain the etiology, clinical features, investigations for the various types of pneumonia	
	Discuss the treatment plan for each of these conditions	
4.	Tuberculosis	
	Classify Tuberculosis	
	 Describe the etiology, clinical features and investigations for Tuberculosis 	

THORARCIC SURGERY

	TOPICS & OBJECTIVES	LEARNING STRATEGY
1.	Benign diseases of lungs	
•	Classify benign lung diseases in the surgical context	
•	Discuss the pathophysiology of the condition	
•	Develop outline of management plan for each	Interactive
2.	Benign Tumors of Thorax	
•	Classify benign tumors of thorax	Lecture
•	Discuss the pathophysiology of the conditions	
•	Develop outline of management plan for each	
•	Discuss the prognosis of each condition	

RESEARCH & SKILLS DEVELOPMENT CENTER

TOPICS & OBJECTIVES	LEARNING STRATEGY	
Explain the components of manuscript including discussion and limitations		
Explain the Principles of report writing	Interactive	
Discuss methods to conduct critical analysis of Research paper	Lecture	

LEARNING RESOURCES

SUBJECT	RESOURCES	
COMMUNITY MEDICINE	TEXT BOOKS 1. Community Medicine by Parikh 2. Community Medicine by M Illyas 3. Basic Statistics for the Health Sciences by Jan W Kuzma TEXT BOOKS	
FORENSIC MEDICINE	 Nasib R. Awan. Principles and practice of Forensic Medicine 1st ed. 2002. Parikh, C.K.Parikh's Textbook of Medical Juris prudence, Forensic Medicine and Toxicology. 7th ed. 2005. REFERENCE BOOKS Knight B. Simpson's Forensic Medicine. 11thed.1993. KnightandPekka. Principles offorensic medicine. 3rded. 2004 Krishan VIJ. Text book of forensic medicine and toxicology (principles and practice). 4th ed. 2007 Dikshit P.C. Textbook of forensic medicine and toxicology. 1st ed. 2010 Polson. Polson's Essential of Forensic Medicine. 4the dition. 2010. Rao. Atlas of Forensic Medicine (latest edition). 9. Rao. Practical Forensic Medicine 3rd ed, 2007. 10. Knight: Jimpson's Forensic Medicine 10th 1991, 11thed. 1993	
PATHOLOGY/MICROBIOLOGY	TEXT BOOKS 1. Robbins & Cotran, Pathologic Basis of Disease, 9 th edition. 2. Rapid Review Pathology, 4 th editionby Edward F.Goljan MD WEBSITES: 1. http://library.med.utah.edu/WebPath/webpath.html 2. http://www.pathologyatlas.ro/	
PHARMACOLOGY	TEXT BOOKS 1. Lippincot Illustrated Pharmacology 2. Basic and Clinical Pharmacology by Katzung	

ASSESSMENT METHODS:

- MCQs (Multiple Choice Questions)
- Objective Structured Practical/Clinical Examination (OSPE or OSCE)
- MCQs and unobserved OSPE will be conducted on the LNH&MC Moodle platform
- Observed OSPE will constitute multiple examiner-based stations

Internal Evaluation

- Students will be assessed comprehensively through multiple methods.
- 20% marks of internal evaluation will be added to JSMU final exam. That 20% includes mid-module & end of module examinations, mid-term & pre-professional examinations.

Formative Assessment

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

For JSMU Examination Policy, please consult JSMU website!

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



LNMC EXAMINATION RULES & REGULATIONS

- Students must report to the examination hall/venue, 30 minutes before the exam.
- The exam will begin sharply at the given time.
- No student will be allowed to enter the examination hall after 15 minutes of the scheduled examination time.
- Students must sit according to their roll numbers mentioned on the seats.
- Cell phones are strictly not allowed in the examination hall.
- If any student is found with a cell phone in any mode (silent, switched off, or on) he/she will not be allowed to continue their exam.
- No students will be allowed to sit in exams without University Admit Card, LNMC College ID Card, and Lab Coat.
- Students must bring the following stationary items for the exam: Pen, Pencil, Eraser, and Sharpener.
- Indiscipline in the exam hall/venue is not acceptable. Students must not possess any written material or communicate with their fellow students.

SCHEDULE:

WEEKS	3 RD YEAR	MONTH			
4 WEEKS	RESPIRATORY II MODULE	28 th July 2025			
		20 th August 2025			
	GIT II MODULE	25 th August 2025			
6 WEEKS					
		1 st October 2025			
PRE PROF. EXAMINATION*					

^{*}Final dates will be announced later