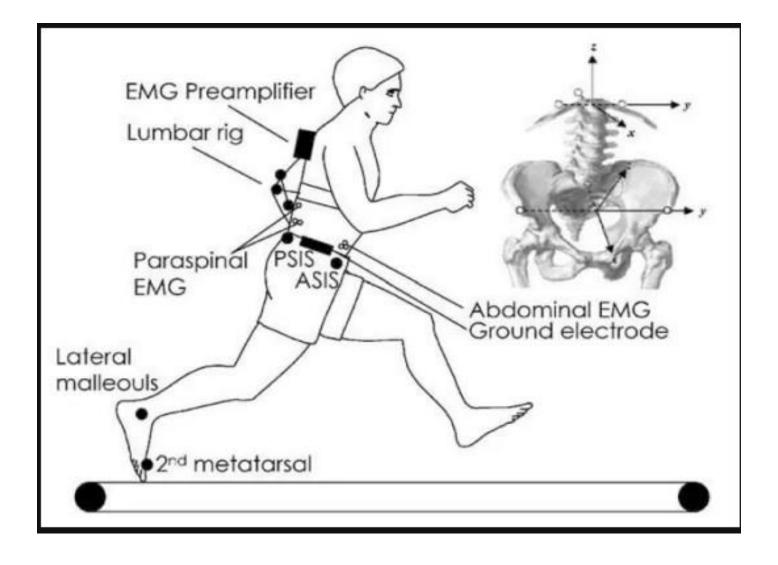




LOCOMOTOR MODULE I 2nd July 2025 to 20th August 2025



STUDY GUIDE FOR LOCOMOTOR MODULE

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Module name: Locomotor Year: One Duration: 8 weeks (July – Aug 2025)

Timetable hours: Interactive Lectures, Case-Based Learning (CBL), Self-Study, Practicals, Skills, Demonstrations

MODULE INTEGRATED COMMITTEE

MODULE COORDINATOR:	 Prof. Zia-Ul-Islam
CO-COORDINATORS:	 Dr. Lubna Faisal

DEPARTMENTS & RESOURCE PERSONS' FACILITATING LEARNING

BASIC HEALTH SCIENCES	CLINICAL AND ANCILLARY DEPARTMENTS		
ΑΝΑΤΟΜΥ	GENERAL SURGERY		
Prof. Zia-ul-Islam	Dr. Faisal Siddiqi		
BIOCHEMISTRY	NEUROLOGY		
Prof. Faiza Waseem	Dr. Syed Ahmed Asif		
COMMUNITY MEDICINE	ORTHOPAEDICS		
Dr. Saima Zainab	Prof. Syed Shahid Noor		
FORENSIC MEDICINE	PHYSIOTHERAPY		
Prof. Syed Mukkaram Ali	Mr. Muhammad Ali		
PATHOLOGY	RADIOLOGY		
Prof. Naveen Faridi	Dr. Misbah Tahir		
PHARMACOLOGY	RHEUMATOLOGY		
Prof. Tabassum Zehra	Dr. Tahira Perveen		
PHYSIOLOGY	RESEARCH & SKILLS DEVELOPMENT CENTER		
Prof. Syed Hafeezul Hassan	Dr. Kahkashan Tahir		
DEPARTMENT OF HEALTH PROFESSIONS EDUCATION			
Prof. Sobia Ali Prof. Nigha	t Huda Dr. Afifa Tabassum		
Dr. Yusra Nasir	Dr. Syed Asad Sibtain		
LNH&MC MANAGEMENT			
Professor KU Makki	i, Principal, LNH&MC		
Dr. Shaheena Akbani, Director A.A & R.T LNH&MC			

STUDY GUIDE COMPILED BY: Department of Health Professions Education

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:

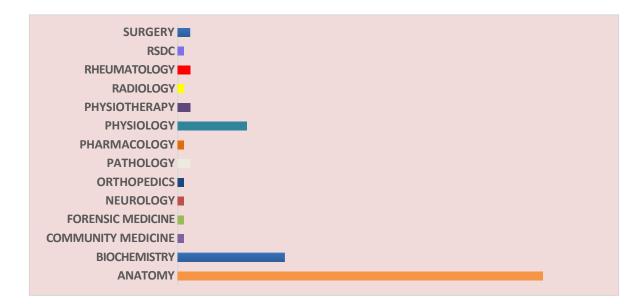
- Communicates information on the organization and management of the module. This will help the student to contact the right person in case of any difficulty.
- Define the objectives which are expected to be achieved at the end of the module.
- identifies the learning strategies such as Interactive Lectures, 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, weblinks, 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.
- f o c u s e s 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.

INTEGRATING DISCIPLINES OF LOCOMOTOR MODULE



LEARNING METHODOLOGIES

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

- Interactive Lectures
- 🖆 Tutorial
- Case- Based Learning (CBL)
- Clinical Experiences
- o 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.

1st YEAR MBBS, LOCOMOTOR MODULE

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.

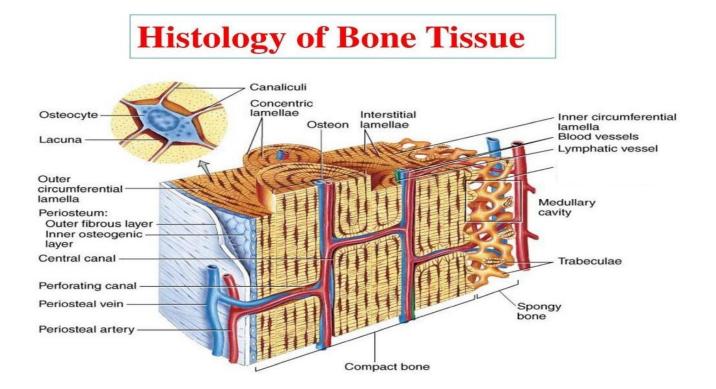
SELF-DIRECTED LEARNING Students assume responsibilities for their learning through individual study, sharing and discussing with peers, and seeking information from Learning Resource Center, teachers, and resource persons within and outside the college. Students can utilize the time within the college's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

LOCOMOTOR MODULE

IMPORTANCE OF LOCOMOTOR SYSTEM

Individuals at some time likely suffer from a problem related to the musculoskeletal system, ranging from a very common problem such as osteoarthritis or back pain to severely disabling limb trauma or rheumatoid arthritis. Many musculoskeletal problems are chronic conditions as well. The most common symptoms are pain and disability, with an impact not only on individuals' quality of life but also, importantly, on people's ability to earn a living and be independent. It has been estimated that one in four consultations in primary care is caused by problems with the musculoskeletal system. A healthy lifestyle such as exercise and diet is recommended for maintaining good health.

Throughout this module, students will have the opportunity to link basic science knowledge to clinical problems. Teaching relevant basic sciences with clinical examples will help you make connections among concepts and retain the information for later clinical education.



TOPICS, OBJECTIVES, AND STRATEGIES

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

ANATOMY

OBJECTIVES	LEARNING STRATEGY
1. Introduction to the Musculoskeletal system	
Discuss the division and functions of the skeletal system	
Enumerate the parts of the axial and appendicular skeleton	Interactive
Define pectoral & pelvic girdle	Lecture
Describe the division and curvature of the vertebral column	
Discuss the types and number of vertebrae found in adults	
2. Embryology Development of Paraxial Mesoderm& muscles	
Define epiblast and hypoblast	
Explain the differentiation of tri-laminar germ disc	Interactive
Discuss the formation of mesoderm and paraxial mesoderm	Lecture
Discuss the developmental relationship between hypaxial and epaxial muscles	
Describe the process of myogenesis in the types of muscle	
UPPER LIMB	
3. Sternoclavicular and Acromioclavicular Joints	
Classify the types of Sternoclavicular and Acromioclavicular joint	
Describe their structure	Interactive
Name the muscles acting on these joint	Lecture
Explain the movements at these joint	
Explain the clinical aspects of these joint	
4. Breast Development, Gross and Histology	
Discuss the anatomy of the breast	
Explain the relation of breasts within the pectoral region	
Describe the blood supply & lymphatic drainage of breast	Interactive
Discuss the relation of breast disease with the axilla	Lecture
Explain the development of breast	
Discuss the histological features of breast	
5. Brachial Plexus	
Describe the formation of the brachial plexus, with its root value and divisions (roots, trunk, division, and cords)	
 Discuss the relation of the brachial plexus also in connection to the clavicle (Supra, retro, infra clavicular parts 	Interactive
Enumerate the branches arising from the cords	Lecture
Draw the brachial plexus	
Name the muscles and skin supplied by the branches of the brachial plexus	
6. Development of limbs & joints and their congenital anomalies	Interactive

Discuss the site and time of appearance of upper and lower limb buds	
Discuss the site and time of appendice of appendic lower himb bads	
Define apical ectodermal ridge (AER)	
• Describe the mesenchymal proliferation under the influence of AER and differentiation into cartilaginous models of future limb bones	
Define the source of mesoderm forming the limb muscles	Lecture
Discuss the hand plate and formation of digital rays resulting in digits	
Describe the muscles involved in and process of rotation of both limbs	
Discuss the differentiation of mesenchyme to form fibrous, cartilaginous, and synovial joints	
Discuss the congenital anomalies of both limbs & joints	
7. Muscles of the anterior compartment of the arm & neurovascular supply	
Enumerate the muscles of the anterior compartment of the arm	
Discuss the attachment of muscles, their nerves supply, and their actions	Interactive
Explain the course of the muscular cutaneous nerve, its branches, and distribution	Lecture
Discuss the large nerves of the arm	
Predict the impact of lesions of the main nerves of the compartment	
8. Muscles of the Posterior compartment of the arm & neurovascular supply	
Name the muscles present in the posterior compartment of the arm	
Describe the actions performed by the muscles of the posterior compartment of the arm	Interactive
Name the nerve supply of the muscles of this compartment	Interactive Lecture
	Lecture
• Explain the course of vessels present in this compartment along with the supply to the structures in this compartment	
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	K WODOLL
Classify the intercarpal, metacarpal, and interphalangeal joint	
Discuss the clinical aspect related to the topic	
12. Blood vessels and nerves of the hand	
Enumerate the arterial supply of hand	
• Describe the course and relations of radial and ulnar arteries, and branches of radial and ulnar arteries,	Interactive
with relation to hand	Lecture
• Discuss the formation of the superficial and deep palmar arch, veins of the hand, and their tributaries	
 Describe the nerves of the hand and their injuries 	
13. Cutaneous supply of upper limb	Interactive
 Describe in detail the cutaneous supply and dermatomes of the upper limb 	Lecture
14. Venous and lymphatic drainage of the upper limb	
Explain the course of major superficial veins of the upper limb	Interactive
 Describe the applied anatomy of superficial veins of the upper limb 	Lecture
 Describe the group and area of drainage of each group of lymph nodes 	
15. Nerve injuries of the Upper limb	1
 Recall the different nerves of the upper limb and their root value 	1
Discuss the causes of nerve injuries in the upper limb	Interactive
Enumerate the common sites of injury of the most commonly injured nerves	_ Lecture
Discuss the symptoms caused by these nerve injuries	
LOWER LIMB	
16. Formation of lumbosacral plexus, & its injuries	
Discuss the formation of the lumbar plexus	
 List the branches of the lumbar plexus with their root values 	
Discuss relation of the nerves with psoas major muscle	Interactive
Structures supplied by lumbar plexus	Lecture
Explain the formation of the sacral plexus	
 Describe the composition and relations of the sacral plexus 	
Enumerate branches of this plexus	
Discuss the cutaneous supply of lower limb	
17. Muscles of the Anterior compartment of the thigh (Femoral triangle, femoral sheath & Neurovascular supply)	
 Discuss the arrangement of the thigh into compartments 	1
 Explain the muscles of the anterior compartment of the thigh and their respective actions 	Interactive
Describe the innervation and blood supply of muscles of the anterior compartment of the thigh	Lecture
Describe the Femoral triangle, its boundaries and contents, and the Femoral sheath and its contents	
• Discuss the clinical conditions associated with an anterior compartment of the thigh, femoral triangle,	
and femoral sheath	4
18. Gluteal Region	4
Describe the location of the gluteal region	4
 Discuss bones and ligaments of the gluteal region 	Interactive
 Discuss the muscles of the gluteal region and their respective actions 	Lecture
 Discuss the nerves and blood vessels of the gluteal region 	
 Enumerate different structures entering and leaving the gluteal region 	4
 Discuss the clinical conditions associated with the gluteal region 	

19. Muscles of the Posterior compartment of the thigh and neurovascular supply	
 Discuss the arrangement of the thigh into compartments 	
Explain the muscles of the posterior compartment of the thigh and their respective actions	Interactive
Describe the innervation and blood supply of muscles of the posterior compartment of the thigh	Lecture
 Discuss the greater and cruciate anastomoses at the back of the thigh 	
 Discuss the clinical conditions associated with the posterior compartment of the thigh 	
20. Anterior & Lateral compartment of leg (muscles, nerves, and vessels)	
Discuss the facial compartments of the leg	Interactive
 Explain muscles of the anterior and lateral compartment with its neurovascular supply 	Lecture
Describe clinical like the compartment syndrome	
21. Posterior compartment of the leg	
 Enumerate the muscles of the posterior compartment of the leg 	Interactive
Discuss the actions of muscles of the posterior compartment of the leg	Lecture
 Describe the nerves and vessels of the compartment and their supply 	
23. Sole of foot & nerves and vessels of foot	
Describe the architecture of the sole of the foot	
Enumerate the layers of the sole of the foot	
Discuss the muscle presenting the sole of the foot	
Discuss the blood supply and nerve supply of the sole of the foot	Interactive
22. Cutaneous supply of lower limb	Lecture
Describe in detail the cutaneous supply of lower limb	
23. Venous and lymphatic drainage of the lower limb	
Enumerate the superficial veins	
Discuss the course of great and small saphenous veins and their connections with the deep veins of the leg	
24. Injuries of the lower limb	
Recall the different nerves of the lower limb and their root value	
Discuss the causes of their injuries	
 Enumerate the sites of injury of the most commonly injured nerves 	Interactive
Discuss the symptoms caused by these nerve injuries	Lecture
Discuss the fracture of bones of the lower limb	
Explain injuries of lower leg and ankle	
Discuss Pott's fracture	
Explain Sprained ankle	
UPPER LIMB	
25. Clavicle (Osteology & muscle attachments)	Interactive
Identify the features of Clavicle borders, surfaces, and landmarks used for side determination	Lecture
Discuss the attachments of muscles on the Clavicle, their nerve supply, and actions	
26. Scapula (Osteology & muscle attachments)	
Identify Scapula and its sites	lake we st
• Mention the bony landmarks of Scapula like borders, surfaces & landmarks used for side determination	Interactive Lecture
Discuss the attachment of muscles on the Scapula, their nerve supply, and actions	
Discuss the Clinical anatomy of the Scapula	
27. Humerus (Osteology & muscle attachments)	Interactive

Identify Humerus and its site	
Mention its bony landmarks like borders, surfaces & landmarks used for side determination	l a struct
Discuss the attachment of muscles on the Humerus, their nerve supply, and actions	Lecture
Explain the clinical conditions associated with Humerus anatomy	
28. Pectoral Region	
Enumerate the muscles of the pectoral girdle	
Describe the attachments of the muscle of the pectoral girdle and its neurovascular supply	
Explain the role of muscles of the pectoral region in stabilizing the pectoral girdle	Interactive Lecture
Discuss the clavi-pectoral fascia	Lecture
Describe the triangle of auscultation	
Name the nerves and blood vessels of this region	
29. Anatomy of Shoulder joint & its movements	
Classify the types of the shoulder joint	
Describe the structure of the shoulder joint	
 Name the muscles acting on the joint/rotator cuff muscles 	Interactive Lecture
Explain the range of mobility	Lecture
Describe the movements of the shoulder joint	
Explain clinical aspects of the joint	
30. Axilla, boundaries, and contents along with axillary artery and veins	
 Describe the position and shape of the axilla 	
 Name the boundaries of the axilla, and the muscles forming these boundaries 	Interactive Lecture
 Discuss the formation, course, and relations of axillary vessels 	
 Describe the groups of axillary lymph nodes and their arrangement 	
31. Radius (Osteology & muscle attachments)	
Identify the bones of the forearm & hand	
Determine the side of bones	
 Identify the features of bones & muscles attached to bones 	
 Describe the nerve supply and actions of muscles 	
Discuss the clinical significance of bones	Interactive
32. Ulna (Osteology & muscle attachments)	Lecture/
Identify the bone	Practical
Determine the side of the bone	
Describe the surfaces, borders, and ends of the bone	
Identify the bony landmarks of bone & muscles attachment sites on the bone	
Describe the nerve supply and actions of muscles	
Discuss the clinical significance of this bone	
33. Cubital fossa & Anastomosis around the elbow	
Describe the boundaries, contents, and relationships among structures of the cubital fossa	
Identify the surface anatomy of the cubital fossa	Interactive
Discuss the clinical importance of the cubital fossa	Lecture
Describe the formation of anastomosis around the elbow joint	
Describe the significance of anastomosis and collateral circulation	
34. Elbow Joint	Interactive

Identify the morphology of the join.	
Discuss the muscles acting on the elbow joint	Lecture
Explain the neurovascular supply of the joint	Lecture
 Describe the carrying angle and applied aspects of this joint 	
35. Osteology of hand	
 Describe the bony arrangement of hand 	
36. Muscles & Spaces of Hand	
Discuss the muscles of the hand	
 Locate the different spaces of the hand on both palmar and dorsal aspects 	
Describe the spaces of the hand	Interactive
Discuss the clinical importance of these spaces	Lecture
37. Surface Anatomy of Upper limb	
Perform surface markings for main vessels of the upper limb	
38. Radiology of upper limb	
Identify the normal bony landmarks on X-Ray	
LOWER LIMB	
39. Hip Bone (Osteology & muscle attachments)	
Enumerate the parts of the hip bone	
Discuss its size determination	Interactive
Describe in detail the osteology of each part of the hip bone	Lecture
Discuss its muscle and ligamentous attachments	
Discuss the clinical conditions related to Hip bone	
40. Femur (Osteology & muscle attachments)	
Identify Femur and its side	
Describe its anatomical position	Interactive
Identify its bony landmarks	Lecture
Discuss the muscles and ligaments attached to Femur	
Discuss the clinical conditions related to it	
41. Hip joint; movements & anastomoses around hip joint	
Describe the formation of the hip joint	
Discuss the characteristics and features of synovial joint	
Describe the articular surfaces of the hip joint	
Discuss the attachment of its joint capsule	Interactive
Explain the ligaments stabilizing the hip joint	Lecture
Discuss the muscles acting on the hip joint and different movements performed at it	
Describe its innervations and blood supply	
Describe the arterial anastomosis around the hip joint.	
Discuss the clinical conditions associated with the hip joint	
42. Deep fascia of the thigh	
 Explain the arrangement and attachment of the deep fascia of the thigh 	
 Discuss the location of the saphenous opening and its relations 	Interactive
Describe the attachments of the inguinal ligament	Lecture
Discuss the clinical conditions associated with the deep fascia of the thigh and inguinal ligament	

43. Tibia (Osteology & muscle attachments)	
Identify the Tibia and its side	
Describe its anatomical position	
Identify its bony landmarks	
Discuss the muscles and ligaments attached to Tibia	
Describe the ossification of the tibia and its primary and secondary ossification centers	Interactive
Discuss the fractures and other clinical conditions associated with it	Lecture
44. Fibula (Osteology & muscle attachments)	1
Identify Fibula and its side	1
Mark the attachment of muscles and ligaments	1
Elaborate on the joints formed by it	1
Describe the nerve injuries related to it	-
45. Popliteal Fossa & its contents	
Discuss the boundaries of the popliteal fossa	
Enumerate the contents of the popliteal fossa	Interactive
Describe the relationship of the contents.	Lecture
Explain how the popliteal artery can be palpated	1
 Discuss clinical conditions related to popliteal fossa (e.g. the Baker's cyst) 	-
46. Knee joint, genicular anastomosis, and locking and unlocking	
Classify the knee joint	1
Discuss its articular surfaces, the synovial capsule	Interactive
• Explain types of movement performed at the knee joint and the muscles responsible for that movement	Lecture
Describe the locking and unlocking mechanism	-
Discuss the neurovascular supply of knee joint	-
47. Osteology of foot	Interactive
Describe the bony arrangement of the foot	Lecture
48. Sole of foot & nerves and vessels of foot	
Describe the architecture of the sole of the foot.	-
• Enumerate the layers of the sole of the foot.	-
Discuss the muscle presenting the sole of the foot	-
Discuss the blood supply and nerve supply of the sole of the foot	-
49. Arches of the foot	Interactive
Describe the architecture of arches of the foot and the fact responsible for their maintenance	Lecture
Elaborate on the bones which are responsible for forming these arches	-
Describe the ligaments which are holding these arches	-
Describe the function of the arches of the foot	1
Describe Plantar Fascitis and relevant injuries	-
50. Ankle joint, superior & Inferior tibiofibular joint	
Describe the Ankle Joint, the type, the articular surface, and the synovial capsule	-
 Discuss the Superior and Inferior Tibio-Fibular Joints, Sub-talar joints, transverse tarsal joints, or mid- tarsal joints. 	Interactive Lecture
Describe the movement performed and the muscles responsible for this movement	
Discuss the neurovascular supply of the joints	1
51. Surface anatomy of lower limb	Interactive

Mark the different joints of the lower limb	
Mark the course of blood vessels of the lower limb	
Palpate the blood vessels	Lecture/Practica
Mark the course of important nerves of the lower limb	I
52. Radiology of lower limb	
 Identify the normal bony landmarks as seen on the X-Ray 	
53. Histology of bone	
• Define bone tissue	
 Classify bones macroscopically (compact & spongy) and microscopically 	
 Differentiate compact and spongy bones based on cells and matrix 	Practical
 Describe the arrangement of spongy and compact bones in different parts of long bones 	
Define Periosteum & Endosteum	
• Discuss bone formation, growth, remodeling & repair	
54. Histology of cartilage	
 Describe the components of cartilage that is cells, fibers, and ground substance 	
 Differentiate the 3 types of cartilage based on differences in components and the presence or absence of perichondrium 	Practical
• Discuss chondrogenesis, growth, and repair	

BIOCHEMISTRY

OBJECTIVES	LEARNING STRATEGY
EXTRACELLULAR MATRIX	
1. Glycosaminoglycans	
Describe the biochemical structure and composition of the extracellular matrix	
Discuss the functions of the extracellular matrix	
Describe the structure of Glycosaminoglycans	Interactive
Classify the Glycosaminoglycans	Lecture/Tutorial
Discuss the biochemical functions of Glycosaminoglycans	
Discuss the clinical significance of the diseases associated with Glycosaminoglycans	
Discuss the clinical importance of Glycosaminoglycans	
 Correlate the laboratory investigations with relevant clinical conditions]
2. Collagen & Elastin	
Describe the structure of Collagen & Elastin	late an etility
Classify Collagen & Elastin.	Interactive Lecture
Discuss the biochemical functions of Collagen & Elastin	Lettere
Discuss the clinical significance of the diseases associated with Collagen & Elastin	
VITAMIN C	
3. Vitamin C	latere etive
Explain the dietary sources and daily recommended allowance of Vitamin C	Interactive Lecture/Tutorial
• Discuss the metabolism of vitamin C in the human body.	
Describe the physical and chemical properties of vitamin C	

• Discuss the biochemical functions of vitamin C, especially concerning Collagen and extracellular matrix	
Discuss the clinical significance of vitamin C deficiency	
Discuss the clinical importance of Vitamin C	
 Correlate the laboratory investigations with relevant clinical conditions 	
BONE METABOLISM	
4. Vitamin D	
Explain the dietary sources and daily recommended allowance of Vitamin D	
Discuss the metabolism of vitamin D in the human body	
Discuss the regulation of serum calcium concerning bone metabolism	Interactive Lecture/Tutorial
Discuss the biochemical functions of vitamin D	
• Discuss the clinical significance of vitamin D deficiency and its prevention.	
Discuss the clinical importance of Vitamin D	
Correlate the laboratory investigations with relevant clinical conditions	
5. Calcium & PO4- Metabolism	
• Explain the dietary sources and daily recommended allowance of Calcium & PO4-	
• Discuss the metabolism of Calcium & PO4- in the human body.	
• Discuss the regulation of serum calcium concerning bone metabolism.	Interactive
Discuss the biochemical functions of Calcium & PO4-	Lecture/Tutorial
• Discuss the clinical significance of Calcium & PO4- deficiency and its prevention.	
Discuss the clinical importance of Calcium & PO4- abnormalities	
Correlate the laboratory investigations with relevant clinical conditions	
PROTEIN METABOLISM	
6. Reactions of Amino acids	
 Describe various sources and utilization of amino acids. 	
 Define and explain the reactions of amino acids (Domination, Transamination, etc.) 	Interactive Lecture
Explain the nitrogen balance in the body	Lecture
 Discuss the diagnostic value of plasma Aminotransferase 	
Discuss the clinical significance of biomarkers	
7. Ammonia Metabolism	
• Discuss the major sources of ammonia.	
• Discuss the utilization, formation, and secretion of ammonia in the human body.	Interactive Lecture
 Explain Ammonia metabolism and its detoxification 	
 Discuss the clinical significance and management of Ammonia toxicity 	
8. Urea Cycle	
• Discuss the process of amino acid oxidation and the production of urea.	
Describe the metabolic pathway of Urea synthesis	
Discuss the fate of urea	Interactive
Describe the regulation of the urea cycle	Lecture/Tutorial
Discuss the clinical significance of urea cycle disorders	
Discuss the clinical importance of the Urea Cycle	
Correlate the laboratory investigations with relevant clinical conditions	7
9. Phenylalanine & Tyrosine Metabolism	
Discuss the metabolism of Phenylalanine & Tyrosine and its related disorders	Interactive Lecture/Tutorial
Discuss the metabolism of Melanin and its related disorder (Albinism)	

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Discuss the metabolism of Thyroid hormones and their related disorder	
Discuss the metabolism of neurotransmitters and their related disorder	
Discuss the clinical importance of metabolic abnormalities of the above amino acids	7
Correlate the laboratory investigations with relevant clinical conditions	7
10. Metabolism & Disorders of Tryptophan	
 Discuss the metabolism of tryptophan and its related disorders 	
 Describe the importance of tryptophan-derived biologically important compounds 	Interactive
Explain the clinical significance of disorders of tryptophan	Lecture/Tutorial
 Discuss the clinical importance of metabolic abnormalities of the above amino acids 	
 Correlate the laboratory investigations with relevant clinical conditions 	
11. Metabolism of Sulphur Containing Amino Acids	
 Discuss the metabolism of Sulphur containing amino acids 	
Describe the functions of Sulphur containing amino acids	Interactive Lecture/Tutorial
List the steps of the formation of cysteine and methionine	
Explain the clinical significance of disorders of Sulphur containing amino acids	
12. Metabolism of Branched Chain Amino Acids	
Discuss the metabolism of branched-chain amino acids	Interactive
Describe the functions of branched-chain amino acids	Lecture/Tutorial
Explain the clinical significance of disorders of branched-chain amino acids	
13. Catabolism of Carbon Skeleton of Amino Acids	
 Explain the catabolism of the carbon skeleton of amino acids 	
List the Glucogenic & Ketogenic amino acids	Interactive
Explain the significance of the carbon skeleton of Amino acids	Lecture
Describe the mechanism of entry of carbon skeleton in amino acid metabolism	_
• Discuss the process of vitamin B12 as a co-factor and methyl donor in the metabolism of amino acids	
14. Estimation of Calcium & Phosphate	
Outline the bio-techniques for the detection of Calcium & Phosphate in a sample	
Perform the estimation of serum Calcium & Phosphate.	
 Correlate the laboratory investigations with relevant clinical conditions 	
15. Estimation of Alkaline Phosphatase	
Outline the bio-techniques for the detection of Alkaline Phosphatase in a sample	
Perform the estimation of serum Alkaline Phosphatase.	
 Correlate the laboratory investigations with relevant clinical conditions 	Practical
16. Chromatography	
Describe the principle of chromatography	
 Describe different types of chromatography and HPLC 	
 Describe the instruments used in different types of chromatography 	
 Correlate the laboratory investigations with relevant clinical conditions 	
17. Paper Chromatography	
Describe the principle of paper chromatography	
 Describe the method of performance of paper chromatography 	

Perform amino acids detection on paper chromatography

• Correlate the laboratory investigations with relevant clinical conditions

COMMUNITY MEDICINE

OBJECTIVES	LEARNING STRATEGY
Prevention of road traffic accidents	Interactive
Describe the accident prevention strategies and road safety	Lecture

FORENSIC MEDICINE

OBJECTIVES	LEARNING STRATEGY
Traumatic injuries to upper & lower limbs	Interactive
Discuss the injuries to upper and lower limbs due to trauma	Lecture

NEUROLOGY

OBJECTIVES	LEARNING STRATEGY
Neurologic lesions of upper limb nerves	laters stire
Describe the nerve injuries related to upper limb	Interactive Lecture
Discuss the clinical conditions related to nerves of the upper limb	Lecture

ORTHOPEDICS

OBJECTIVES	
Clinical presentation of common fractures and dislocations of upper and lower limb	
• Discuss the clinical presentation of common fractures and dislocations of upper and lower limb	Lecture

PATHOLOGY

OBJECTIVES	LEARNING STRATEGY
1. Bone fracture & repair	
Discuss the bone fracture & process of repair	Interactive
2. Osteoporosis	Lecture
Describe osteoporosis and its clinical presentation	

PHARMACOLOGY

OBJECTIVES	LEARNING STRATEGY
Pain Management	Interactive
Discuss joint & bone pain management in different clinical conditions of the upper limb	Lecture

PHYSIOLOGY

OBJECTIVES	LEARNING STRATEGY
1. Membrane Potential	
Define Nernst Potential, Nernst equation	
Explain the significance of Nernst's potential	Interactive Lecture
Define the origin of resting membrane potential	
Describe the role of Na, K & Cl, Na-K ATPase pump	
2. Action Potential (phases, generation & propagation)	
Identify different phases of action potential	
Describe the generation & propagation of action potential	
Define threshold potentials	
3. Physiological properties of skeletal muscle	
Define contractility (isometric & isotonic) & excitability	
Define fatigue	
Define summation (spatial & temporal)	Interactive Lecture
Differentiate between tetanization, tetanus & tetany	
 Describe briefly the staircase phenomenon (treppe) 	
Define motor unit	
4. Mechanism of skeletal muscle contraction	
Describe briefly the structure of Sarcomere	
• Explain the sliding filament mechanism & power stroke	
Define troponin tropomyosin complex	
5. Neuromuscular Junction Transmission	
List the components of the neuromuscular junction	
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• Explain the sequence of events during the transmission

• Define end plate potential

• Describe excitation-contraction coupling

Interactive Lecture

Describe briefly the role of the Sarcoplasmic reticulum	
6. Disorders of Neuromuscular Junction	Interactive
Identify disorders of the neuromuscular junction (Myasthenia gravis, Lambert Eaton syndrome)	Lecture
7. Muscle adaptation to exercise	
Identify the types of muscle fibers (type I & II)	Interactive
Describe the effect of exercise on muscular blood flow	Lecture
 Define the effect of training, endurance & resistance on muscle fibers 	
8. Introduction to power lab & performance of Nerve conduction velocity	
 Describe different parts of power lab & their application in different experiments 	
Determine nerve conduction velocity in human	
9. Electromyogram (EMG)	
 Explain the physiology of muscle contraction & changes during EMG recording 	
10. Simple muscle twitch (SMT) & Fatigue	Practical
• Define simple muscle twitch & summation	
 Identify the graphs of SMT & summation 	
11. Summation & Tetanization	
Define tetanization & fatigue	
Identify the graphs of tetanization & fatigue	

PHYSIOTHERAPY

OBJECTIVES	LEARNING STRATEGY
1. Clinical manifestation of common shoulder problems	
Describe the common shoulder problems	
2. Hip & knee problems	Tutorial
Describe common knee problems	
Discuss clinical conditions related to it.	

RADIOLOGY

OBJECTIVES	LEARNING STRATEGY	
Radiologic anatomy of bones & joints of upper limb	Tutorial	
Discuss the fracture and other clinical conditions related to it.	Tutorial	

RHEUMATOLOGY

OBJECTIVES	LEARNING STRATEGY
1. Arthritis & its types	
Classify arthritis	
Discuss clinical conditions associated with it	Interactive Lecture
2. Gout	Lecture
Discuss the clinical presentation of the disease	

RESEARCH & SKILLS DEVELOPMENT CENTER

OBJECTIVES	LEARNING STRATEGY
Capeline bandage arm sling and care of amputated digit	
Perform the application of Capeline bandage on the arm or amputated stump	Tutorial
Perform figure of eight turn wrap technique to the upper limb]

SURGERY

OBJECTIVES	LEARNING STRATEGY
1. Clinical presentation of common breast disease	
Discuss the clinical presentation of common breast diseases	Interactive
2. Gluteal Abscess	Lecture
• Describe the abscess on the gluteal region and discuss clinical conditions related to it.	

LEARNING RESOURCES

SUBJECT	RESOURCES
ΑΝΑΤΟΜΥ	 A. <u>GROSS ANATOMY</u> K.L. Moore, Clinically Oriented Anatomy Neuro Anatomy by Richard Snell B. <u>HISTOLOGY</u> B. Young J. W. Health Wheather's Functional Histology C. <u>EMBRYOLOGY</u> Keith L. Moore. The Developing Human Langman's Medical Embryology
BIOCHEMISTRY	 A. <u>TEXTBOOKS</u> 1. Harper's Illustrated Biochemistry 2. Lehninger Principle of Biochemistry 3. Biochemistry by Devlin
	 A. <u>TEXTBOOKS</u> Textbook Of Medical Physiology by Guyton And Hall Ganong' S Review of Medical Physiology Human Physiology by Lauralee Sherwood Berne & Levy Physiology Best & Taylor Physiological Basis of Medical Practice B. <u>REFERENCE BOOKS</u> Guyton & Hall Physiological Review Essentials Of Medical Physiology by Jaypee Textbook Of Medical Physiology by Indu Khurana Short Textbook Of Physiology by Arthur NMS Physiology



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.

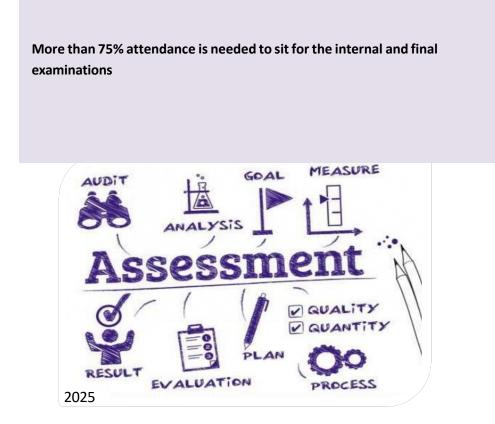
• 20% marks of internal evaluation will be added to JSMU final exam. That 20% includes mid-module & end of module examinations, mid-term & pre-professional examinations.

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 the JSMU website!



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.
- · <u>Cell phones are strictly not allowed in the examination hall.</u>
- 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.

WEEKS	1 ST YEAR	MONTH
8 WEEKS	LOCOMOTOR MODULE	2 nd July 2025 To 20 th August 2025
4 WEEKS	RESPIRATORY MODULE	25 th August 2025 To 17 th September 2025
5 WEEKS	CVS MODULE	22 nd Sept 2025 To 22 nd Oct 2025
*PRE-PROF EXAM		

*Final dates will be disclosed later.