# STUDY GUIDE-FOURTH YEAR MBBS 23<sup>rd</sup> September - 18<sup>th</sup>October 2024 Duration: 4 Weeks



OSTEOPOROSIS OF HUMAN BONES





Disability | Impairment | Handicap



## LIAQUAT NATIONAL HOSPITAL AND MEDICAL COLLEGE





### **STUDY GUIDE FOR ORTHOPAEDICS & REHABILITATION MODULE**

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Module name: Orthopedics and Rehabilitation

Year: Four

Duration: 4 weeks (September – October 2024)

#### **MODULE INTEGRATION COMMITTEE**

| MODULE COORDINATOR | Dr. Nasir Ahmed ( <b>Orthopedics</b> ) |
|--------------------|----------------------------------------|
| CO-COORDINATORS    | Dr. Afifa Tabassum                     |

#### DEPARTMENTS AND RESOURCE PERSONS FACILITATING LEARNING

| COMMUNITY MEDICINE                                                         | ACCIDENT & EMERGENCY                |  |
|----------------------------------------------------------------------------|-------------------------------------|--|
| Dr. Saima Zainab                                                           | Dr. Shaesta Tabassum                |  |
| NEURO-SURGERY                                                              | CARDIOLOGY                          |  |
| Prof. Dr. Salman Yousuf Sharif                                             | Dr. Imran Sandeelo                  |  |
| MAXILLOFACIAL                                                              | PHYSICAL MEDICINE                   |  |
| Dr. Tauqir-ul-Islam                                                        | Mr. Muhammad Ali                    |  |
| ORTHOPAEDICS                                                               | RADIOLOGY                           |  |
| Prof. Syed Shahid Noor                                                     | Dr. Misbah Tahir                    |  |
| RESEARCH & SKILLS DEVELOPMENT CENTER                                       | RHEUMATOLOGY                        |  |
| Dr. Kahkashan Tahir                                                        | Dr. Tahira Perveen                  |  |
| DEPARTMENT of HEA                                                          | ALTH PROFESSIONS EDUCATION          |  |
| Professor Nighat Huda     Professor Sobia Ali     Dr. Afifa Tabassum       |                                     |  |
| • Dr. Yusra Nasir                                                          |                                     |  |
| LNH&MC MANAGEMENT                                                          |                                     |  |
| <ul> <li>Professor KU Makki, Principal, LNH&amp;MC</li> </ul>              |                                     |  |
| <ul> <li>Dr. Shaheena Akbani, Director A.A &amp; R.T LNH&amp;MC</li> </ul> |                                     |  |
|                                                                            |                                     |  |
| STUDY GUIDE COMPILED BY: Departm                                           | ent 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.
- Defines the objectives which are expected to be achieved at the end of the module.
- Identifies the learning strategies such as lectures, small group teachings, clinical skills, demonstration, tutorial, and case-based learning that will be implemented to achieve the module objectives.
- Provides 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 continuous and modular examinations' contribution to 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.

**INTEGRATED CURRICULUM:** Comprises system-based modules such as Orthopedics 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 about clinical examples.

**LEARNING EXPERIENCES**: Case-based integrated discussions, Task oriented learning followed by task presentation, skills acquisition in skills lab, computer-based assignments, and learning experiences in clinics, and wards.

#### INTRODUCTION TO THE ORTHOPAEDICS AND REHABILITATION MODULE

Orthopedics is a medical specialty that focuses on diagnosing, correcting, preventing, and treating patients with skeletal deformities - disorders of the bones, joints, muscles, ligaments, tendons, nerves, and skin.

An analysis of Global Burden of Disease (GBD) data in 2019 showed that globally approximately 1.71 billion people have musculoskeletal problems.

Rehabilitation Medicine deals with the use of all means aimed at reducing the impact of disabling and handicapped conditions and enabling disabled people to achieve optimal social integration.

This module will assist learners in learning the basics of knowledge related to the diagnosis, treatment & prevention of musculoskeletal diseases & injuries while also allowing them to explore rehabilitation for a variety of conditions





#### LEARNING METHODOLOGIES

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

- Interactive Lectures
- Small Group Discussion
- Case- Based Discussion(CBD)
- Clinical Experiences
  - Clinical Rotations
- Skills session
- Self-Directed Learning

#### **INTERACTIVE LECTURES**

In large groups, the lecturer introduces 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.

**SMALL GROUP SESSION:** 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 lectures, tutorials, and self-study. The facilitator asks probing questions, summarizes, or rephrases to help clarify concepts.

**CASE-BASED DISCUSSION (CBD)**: 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 construct new knowledge.

**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 LNH wards like Medicine, Pediatrics, Surgery, Obs Gynae, ENT, Orthopedics, Family Medicine clinics and outreach centers, and related community Medicine experiences are included as well. 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 RSDC.

**SELF-DIRECTED LEARNING:** Students assume responsibilities for their learning through individual study, sharing and discussing with peers, and seeking information from the 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.

#### **COURSE OBJECTIVES AND STRATEGIES**

By the end of the Orthopedics and Rehabilitation module, students should be able to:

#### **ACCIDENT & EMERGENCY**

| OBJECTIVES                                              | LEARNING<br>STRATEGY |
|---------------------------------------------------------|----------------------|
| Triage                                                  |                      |
| Describe the sequence of evaluation of a trauma patient |                      |
| Describe the criteria for triage of a trauma patient    |                      |

#### CARDIOLOGY

| OBJECTIVES                                                                                                                                  | LEARNING<br>STRATEGY |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Rehabilitative management of common cardiac conditions                                                                                      |                      |
| • Describe the method of comprehensive assessment of a patient presenting with common cardiac conditions, and evaluation for rehabilitation |                      |
| Formulate differential diagnosis for common cardiac conditions                                                                              | Lecture              |
| • Justify a rehabilitation management plan that specifies appropriate modalities of assessment and treatment                                |                      |

#### **COMMUNITY MEDICINE**

| OBJECTIVES                                                                                                 | LEARNING<br>STRATEGY |
|------------------------------------------------------------------------------------------------------------|----------------------|
| 1. Introduction to Rehabilitation                                                                          |                      |
| • Define concepts of primary, secondary, and tertiary prevention in the context of rehabilitation medicine |                      |
| Describe the potentially disabling consequences of diseases and injuries                                   | Lecture              |
| 2. Levels of prevention                                                                                    |                      |
| Explain the general concept of Primary, Secondary, and Tertiary prevention                                 |                      |

#### **RSDC**

| OBJECTIVES                                   | LEARNING<br>STRATEGY |  |
|----------------------------------------------|----------------------|--|
| Ortho                                        |                      |  |
| Apply Plaster cast correctly                 |                      |  |
| Give Intra-articular injections in a manikin | Sindiation           |  |
|                                              |                      |  |

#### **ORTHOPEDICS**

| OBJECTIVES                                                                                                                                                                                      | LEARNING<br>STRATEGY |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1. Presenting problems and investigations of Musculoskeletal diseases                                                                                                                           |                      |
| Describe the presenting problems and investigations of Musculoskeletal diseases                                                                                                                 |                      |
| 2. Fractures                                                                                                                                                                                    |                      |
| Classify the different types of fractures                                                                                                                                                       |                      |
| Describe the specific types of fractures (hip, Colles', and pelvic fractures)                                                                                                                   |                      |
| Discuss the general principles of management of fractures                                                                                                                                       |                      |
| • Describe the therapeutic measures for different fractures, the principles of fracture treatment in children, and common complications of fractures                                            |                      |
| Discuss the principles of fracture fixation                                                                                                                                                     |                      |
| Describe the principles of non-operative and operative management of fractures in adults                                                                                                        |                      |
| Discuss clinical features and management of fractures in Children                                                                                                                               | Lecture /            |
| 3. Torso Trauma                                                                                                                                                                                 | CBL/                 |
| Develop a plan for diagnosis and treatment of patients with torso trauma                                                                                                                        | Tutorial             |
| Describe the classification of pelvic fractures and the associated complications                                                                                                                |                      |
| 4. Rehabilitative Management of Arthritis                                                                                                                                                       |                      |
| Explain the method of assessment of a patient presenting with complications of arthritis                                                                                                        |                      |
| • Describe the rehabilitation interventions to improve joint range of movement (ROM), muscular strength, pain relief, balance and coordination                                                  |                      |
| 5. Management of Fractures                                                                                                                                                                      | •                    |
| Summarize the rehabilitation methods following surgical intervention for fractures                                                                                                              | 1                    |
| Describe the principles of management of open fracture                                                                                                                                          | 1                    |
| 6. Rehabilitative Management of Osteoporosis                                                                                                                                                    |                      |
| Justify a rehabilitation management plan for osteoporosis                                                                                                                                       | ]                    |
| 7. Osteoarthritis                                                                                                                                                                               |                      |
| Describe the prevalence, pathogenesis, morphological, and clinical features of osteoarthritis                                                                                                   |                      |
| Diagnose osteoarthritis based on clinical features, laboratory tests, and imaging results                                                                                                       |                      |
| Develop a treatment plan for osteoarthritis                                                                                                                                                     |                      |
| 8. Bone tumors                                                                                                                                                                                  | Tutorial             |
| Correlate the pathological findings of common bone tumors with their clinical presentation                                                                                                      |                      |
| Justify the diagnosis, investigations, and treatment plans for primary bone tumors                                                                                                              |                      |
| 9. Osteomyelitis and Septic arthritis                                                                                                                                                           |                      |
| Name the major pathogenic organisms causing bone and joint infections                                                                                                                           |                      |
| • Describe the pathophysiology, clinical features, elements of prevention, and management of                                                                                                    |                      |
| <ul> <li>bone and joint infections</li> <li>Outline the main clinical features and laboratory tests to diagnose bone and joint infections<br/>(Septic, Viral, Tuberculous arthritis)</li> </ul> | Lecture              |

#### **OCCUPATIONAL THERAPY**

| OBJECTIVES                                                                                                                               | LEARNING<br>STRATEGY |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1. Rehabilitation evaluation                                                                                                             |                      |
| • Describe current tools and systems for the measurement of impairment, disability, and activity limitation or participation restriction |                      |
| 2. Community-based rehabilitation                                                                                                        |                      |
| Define community-based rehabilitation                                                                                                    |                      |
| Describe the strategies for incorporating rehabilitation in the community                                                                |                      |
|                                                                                                                                          |                      |

• List the benefits of community-based rehabilitation

#### MAXILLOFACIAL SURGERY

| OBJECTIVES                                                                   | LEARNING<br>STRATEGY |
|------------------------------------------------------------------------------|----------------------|
| Maxillo-facial injuries                                                      |                      |
| Maxillofacial surgery and trauma                                             | Lecture              |
| Describe the mechanism, assessment, and management of maxillofacial injuries | ]                    |

#### **NEUROSURGERY**

| OBJECTIVES                                                                                   | LEARNING<br>STRATEGY |
|----------------------------------------------------------------------------------------------|----------------------|
| 1. Spinal Trauma                                                                             |                      |
| Describe the rapid assessment of a patient with spinal trauma                                |                      |
| • Describe the etiology, pathophysiology, and appropriate management of patients with spinal |                      |
| cord injury.                                                                                 | Lecture              |
| 2. Non-Traumatic back pain                                                                   |                      |
| Identify the most common conditions causing back pain                                        |                      |
| • Develop a plan for diagnosis and management of non-traumatic neck and back problems        |                      |

#### PHYSIOTHERAPY

| OBJECTIVES                                                                                                                                                                                                  | LEARNING<br>STRATEGY |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1. Impairment, disability and handicap                                                                                                                                                                      |                      |
| Explain the purpose of rehabilitation                                                                                                                                                                       |                      |
| <ul> <li>Discuss the rehabilitation journey following amputation considering the key physical and<br/>psycho-social perspectives</li> </ul>                                                                 |                      |
| Describe the concepts of impairment, disability, activity limitation, and participation restriction                                                                                                         |                      |
| • Explain the epidemiology, pathophysiology, clinical features, and complications of conditions that may lead to impairment and disability.                                                                 | Lecture /<br>CBL /   |
| 2. Rehabilitation of Amputee                                                                                                                                                                                | Tutorial             |
| • Describe the epidemiology of major limb loss including etiology, incidence, morbidity, and mortality                                                                                                      |                      |
| • Summarize surgical principles of limb amputation and levels of amputation including digit(s), thumb, partial hand, trans-carpal and trans-radial wrist disarticulation, elbow disarticulation, etc.       |                      |
| 3. Pediatric Rehabilitation                                                                                                                                                                                 |                      |
| Summarize the theories of development and normal developmental milestones                                                                                                                                   | Lecture /            |
| <ul> <li>Describe assessment methods and rehab interventions for pediatric conditions {Cerebral Palsy,<br/>talipes equinovarus (TEV), Duchenne muscular dystrophy, Myopathies, and Spina Bifida}</li> </ul> | CBL /<br>Tutorials   |
| 4. Rehabilitative management of common musculoskeletal disorders                                                                                                                                            |                      |
| This includes disorders of:                                                                                                                                                                                 |                      |
| i. Spine -Cervical spondylitis, Lumbar Spine (Sciatica, Low Back Pain)                                                                                                                                      |                      |
| <ul> <li>Upper Limb- Shoulder joint (Adhesive capsulitis, Impingement), Elbow joint (Epicodylitis),<br/>Wrist joint (Carpal tunnel syndrome, Dequervain's synovitis)</li> </ul>                             | Locturo /            |
| <ul> <li>iii. Lower Limb - Hip joint (Groin region pain), Knee joint (ligament tear, meniscal tear), Ankle<br/>joint (Plantar Fasciitis, Ankle Sprain)]</li> </ul>                                          | CBL /<br>Tutorials   |
| • Describe the methods of assessment, and evaluation for the rehabilitation potential, of a patient presenting with musculoskeletal disease.                                                                |                      |
| Formulate differential diagnosis and therapeutic interventions for musculoskeletal conditions.                                                                                                              |                      |
| Justify a rehabilitation management plan that specifies appropriate modalities of assessment and treatment                                                                                                  |                      |
| 5. Prosthesis of Upper and lower Limbs                                                                                                                                                                      |                      |
| Describe components, types, characteristics, and indications of the limb prosthesis                                                                                                                         | CBL /                |
| Explain relevant postoperative patient management                                                                                                                                                           | Tutorial             |
| Justify the prescription of appropriate temporary and definitive prostheses                                                                                                                                 |                      |
| 6. Rehabilitative management of common neurological disorders (Spinal cord injuries, Traumatic brain injuries, Parkinson's disease)                                                                         |                      |
| Describe a comprehensive assessment plan for a patient presenting with a neurological disease                                                                                                               | CBI /                |
| Formulate differential diagnosis for neurological conditions                                                                                                                                                | Tutorial             |
| List the therapeutic interventions for neurological conditions                                                                                                                                              |                      |

| <ul> <li>Justify a rehabilitation management plan that specifies appropriate modalities of assessment<br/>and treatment for neurological conditions</li> </ul>         |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 7. Rehabilitative Management of Stroke                                                                                                                                 |           |
| • Explain the process of assessment, evaluation for potential of rehabilitation, and management of rehabilitation of patients presenting with cerebrovascular diseases |           |
| Summarize the rehabilitation management of stroke deficit                                                                                                              |           |
| 8. Assessment of disabilities                                                                                                                                          | lastura ( |
| • Describe the potential role and benefits of specific medical and rehabilitation therapies in the assessment and management of disability                             | CBL /     |
| Interpret relevant diagnostic investigations, including radiological and electro-diagnostic tests                                                                      | i atoriai |

#### RHEUMATOLOGY

| OBJECTIVES                                                                                                                    |     |  |
|-------------------------------------------------------------------------------------------------------------------------------|-----|--|
| 1 Osteoporosis and Osteomalacia                                                                                               |     |  |
| Describe the prevalence and pathogenesis of osteoporosis and osteomalacia                                                     | -   |  |
| • Diagnose osteoporosis and osteomalacia based on clinical features, laboratory tests, and imaging results                    |     |  |
| Develop a treatment plan for osteoporosis and osteomalacia                                                                    | ]   |  |
| 2. Crystal Induced Gout                                                                                                       |     |  |
| Classify gout                                                                                                                 |     |  |
| Describe the pathogenesis, morphological, and clinical features of gout                                                       |     |  |
| Differentiate among various types of gout, based on clinical presentations                                                    |     |  |
| Develop a plan for treating acute gouty arthritis                                                                             |     |  |
| • Discuss the diagnosis and management of crystal-induced arthropathies (gout and pseudogout)                                 |     |  |
| 3. Systemic connective tissue diseases                                                                                        | CBI |  |
| • Describe briefly the pathophysiology, prevalence, clinical features, laboratory tests, and current management strategies of |     |  |
| i. Systemic Lupus Erythematosus                                                                                               |     |  |
| ii. Systemic sclerosis                                                                                                        |     |  |
| iii. Polymyositis and Dermatomyositis                                                                                         |     |  |
| iv. Myotonic dystrophy and Duchenne muscular dystrophy                                                                        |     |  |
| 4. Musculoskeletal diseases                                                                                                   |     |  |
| Describe the clinical features, laboratory tests, and imaging of the following musculoskeletal                                | ]   |  |
| diseases:                                                                                                                     | _   |  |
| i. Rheumatoid Arthritis                                                                                                       |     |  |
| ii. Seronegative Spondylo-arthropathies                                                                                       |     |  |

#### RADIOLOGY

| OBJECTIVES                                                                                | LEARNING<br>STRATEGY |
|-------------------------------------------------------------------------------------------|----------------------|
| 1. Imaging of musculoskeletal system                                                      |                      |
| Explain the role of radiologic imaging in musculoskeletal system diseases                 |                      |
| Describe the principles of MRI, isotope bone scans, DEXA scans, and CT scans              | Tutorial             |
| 2. Imaging of bone tumors                                                                 | Tutonai              |
| List the techniques involved in the diagnosis of bone tumors                              |                      |
| Identify common skeletal injuries on radiographic films (e.g. fractures and dislocations) |                      |

#### ANATOMY

| OBJECTIVES                                              | LEARNING<br>STRATEGY |
|---------------------------------------------------------|----------------------|
| Describe the Clinical Anatomy of Musculoskeletal System | Lecture              |





### **LEARNING RESOURCES**

| SUBJECT                    | RESOURCES                                                                                                                                                                                                                                                                                                      |                                                                                              |  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--|
| GENERAL SURGERY,           | <b>TEXTBOOK</b><br>1. Bailey & Love's Short Practice of Surgery, 26 <sup>th</sup> Edition                                                                                                                                                                                                                      |                                                                                              |  |
| NEUROSURGERY               | WEBSITES (ORTHOPAEDICS):<br>www.orthobullets.com                                                                                                                                                                                                                                                               |                                                                                              |  |
| NEUROLOGY,<br>RHEUMATOLOGY | <ul> <li><b>REFERENCE BOOKS:</b></li> <li>1. Hutchison's Clinical Methods, 23<sup>rd</sup>Edition</li> <li>2. MacLeod's clinical examination 13thedition</li> <li>3. Davidson's Principles and Practice of Medicine</li> <li>4. Kumar and Clark's Clinical Medicine</li> <li>5. HCAI guidelines CDC</li> </ul> |                                                                                              |  |
|                            | ΤΟΡΙϹ                                                                                                                                                                                                                                                                                                          | REFERENCE BOOKS                                                                              |  |
| PHYSICAL MEDICINE          | Orthopedic Physical Assessment                                                                                                                                                                                                                                                                                 | Quick reference by David J. Maggee                                                           |  |
|                            | Physical Rehabilitation                                                                                                                                                                                                                                                                                        | Quick reference by Susan B. O'Sullivan                                                       |  |
|                            | Therapeutic Exercise                                                                                                                                                                                                                                                                                           | Foundations and Techniques Seventh Edition<br>Carolyn Kisner PT                              |  |
|                            | Physiotherapy                                                                                                                                                                                                                                                                                                  | Impairment, disability, and handicap                                                         |  |
|                            | Basis of Pediatrics                                                                                                                                                                                                                                                                                            | Quick reference by Pervaiz akber.                                                            |  |
|                            | Pediatric Rehabilitation                                                                                                                                                                                                                                                                                       | Principles and Practice by Alexander                                                         |  |
|                            | Atlas of Limb Prosthetics                                                                                                                                                                                                                                                                                      | Surgical and Prosthetic Principles by the American<br>Academy of Orthopaedic Surgeons (AAOS) |  |
|                            | Atlas of Orthoses and Assistive<br>Devices                                                                                                                                                                                                                                                                     | Quick reference by AAOS                                                                      |  |
| COMMUNITY<br>MEDICINE      | <ol> <li>TEXTBOOKS</li> <li>Preventive and Social Medicine by K Park</li> <li>Community Medicine by M. Ilyas</li> <li>Basic <i>Statistics</i> for the Health Sciences by Jan W Kuzma</li> </ol>                                                                                                                |                                                                                              |  |

#### **ASSESSMENT METHODS:**

- Best Choice Questions(BCQs) also known as MCQs (Multiple Choice Questions)
- Objective Structured Clinical Examination (OSCE)

#### **Internal Evaluation**

- Students will be assessed comprehensively through multiple methods.
- 20% marks of internal evaluation will be added to the JSMU final exam. That 20% may include class tests, assignments, practical, and the internal exam which will all have specific marks allocation.

#### **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 the JSMU Examination Policy, please consult the JSMU website!





#### **LNH&MC EXAMINATION RULES & REGULATIONS**

- Student must report to examination hall/venue, 30minutes before the exam.
- Exam will begin sharply at the given time.
- No student will be allowed to enter the examination hall after 15 minutes of 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 an exam without a 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.
- In discipline in the exam hall/venue is not acceptable. Students must not possess any written material or communicate with their fellow students.

### **SCHEDULE:**

| WEEKS                         | 4TH YEAR                                      | MONTH                            |  |
|-------------------------------|-----------------------------------------------|----------------------------------|--|
|                               |                                               | 23 <sup>rd</sup> September, 2024 |  |
| 4 WEEKS                       | <b>ORTHOPEDIC &amp; REHABILITATION MODULE</b> |                                  |  |
|                               |                                               | 18 <sup>th</sup> October 2024    |  |
| *Pre-Professional examination |                                               |                                  |  |

\*Final dates will be announced later.