# BAQAI MEDICAL UNIVERSITY
# BAQAI MEDICAL COLLEGE
# FIRST YEAR M.B.B.S.
# MUSCULOSKELETAL MODULAR GUIDE 2024- 2025

## BAQAI MEDICAL COLLEGE

## FIRST YEAR M.B.B.S

## STUDY GUIDE 2024 - 2025

## MUSCULOSKELETAL SYSTEM

## (10 WEEKS)

# BAQAI MEDICAL UNIVERSITY
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# MUSCULOSKELETAL MODULAR GUIDE 2024- 2025

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## LIST OF ABBREVIATIONS

| | |
|---|---|
| BMC | Baqai Medical College |
| BMU | Baqai Medical University |
| CBL | Case Based Learning |
| LGIF | Large Group Interactive Format |
| LOs | Learning Objectives |
| MCQs | Multiple Choice Questions |
| OSCE | Objective Structured Clinical Examination |
| OSPE | Objective Structured Practical Examination |
| PEARLS | Professionalism, Ethics, Research, Leadership, Communication Skills |
| SDL | Self Directed Learning |
| SGD / SGT | Small Group Discussion / Small Group Teaching |
| TS | Teaching Strategy |

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## BAQAI MEDICAL UNIVERSITY VISION STATEMENT

To evolve as a nucleus for higher learning with a resolution to be socially accountable, focused on producing accomplished health care professionals for services in all spheres of life at the national and global level.


## BAQAI MEDICAL UNIVERSITY MISSION STATEMENT

University is dedicated to the growth of competencies in its potential graduates through dissemination of knowledge for patient care, innovation in scholarship, origination of leadership skills, and use of technological advancements and providing.

## BAQAI MEDICAL COLLEGE MISSION STATEMENT

# BAQAI MEDICAL UNIVERSITY
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The mission of the Baqai medical college is to produce medical graduates, who are accomplished and responsible individuals and have skills for problem solving, clinical judgment, research & leadership for medical practice at the international level and are also aware of the health problems of the less privileged rural and urban population of Pakistan.

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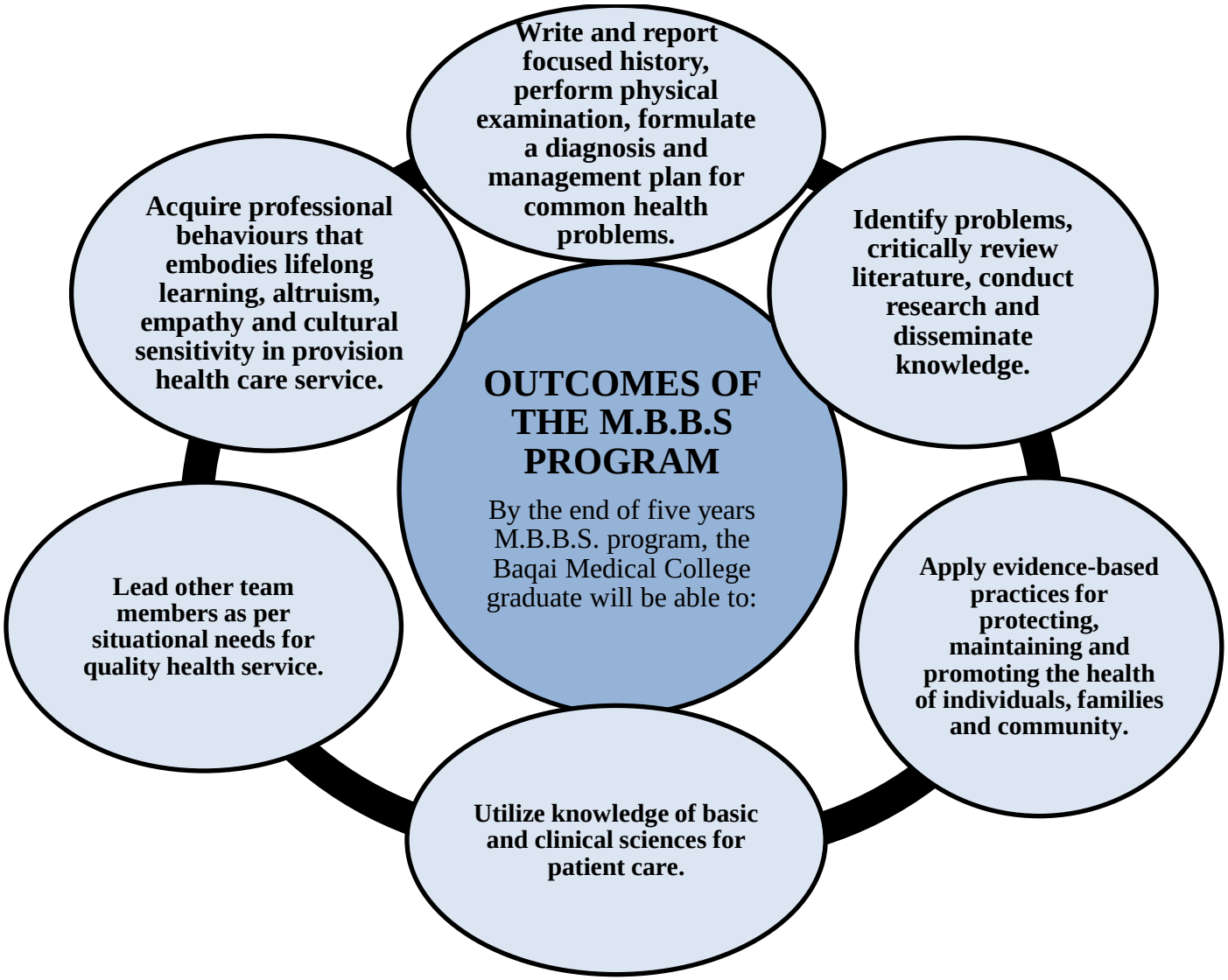

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# CURRICULUM COMMITTEE TEAM

| NAME OF FACULTY | DEPARTMENT | DESIGNATION IN COMMITTEE |
|---|---|---|
| **Prof. Dr. Farrukh Naheed** | Gynaecology & Obstetrics | Chairperson |
| **Dr. Maeesa Sajeel** | Pathology | Co-Chairperson |
| **Dr. Saadia Akram** | Gynaecology & Obstetrics | Secretary |
| **Dr. Tayyaba Kazmi** | Anatomy | Member |
| **Dr. Iffat Ara Aziz** | Biochemistry | Member |
| **Dr. Saba Abrar** | Physiology | Member |
| **Prof. Dr. Nasima Iqbal**<br>**Dr. Sarah Azhar** | Pathology | Members |
| **Dr. Rafay Ahmed Siddqui** | Forensic Medicine | Member |
| **Dr. Faraz Saleem** | Pharmacology | Member |
| **Prof. Dr. Nazia Jameel** | Community Medicine | Member |
| **Dr. Rehana Babar** | ENT | Member |
| **Prof. Dr. Mir Amjad Ali** | Ophthalmology | Member |
| **Dr. Mahira Shafi** | Psychiatry | Member |
| **Dr. Tahira Saeed** | Paediatrics | Member |
| **Dr. Mahwish Rizwan** | Radiology | Member |
| **Dr. Sumayyah Liaquat**<br>**Dr. Saima Askari** | General Medicine | Members |
| **Dr. Sidra Abbas**<br>**Dr. Danish Muneeb** | General Surgery | Member |
| **Dr. Saadia Akram** | Gynaecology & Obstetrics | Member |
| **Ms. Maria Rahim** | Research | Member |
| **Prof. Dr. Shaheen Malik** | Assessment Cell | Member |
| **Dr. Saeeda Junaid** | QEC | Member |

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| | | |
|---|---|---|
| **Dr. Azra Shaheen** | Behavioural Sciences | Member |
| **Dr. Saima Qamar** | Medical Education | Member |
| **Dr. Urooj Aamir** | Bioethics | Member |
| **Class Representatives from 1st year, 2nd year, 3rd year, 4th year and 5th year MBBS** | Student Feedback | Members |

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## CIC SPIRAL-1 1ST Year MBBS MODULAR TIME TABLE, STUDY GUIDE and CBL COMMITTEE

| NAME OF FASCULTY | DEPARTMENT | DESIGNATION IN COMMITTEE |
|---|---|---|
| PROFF DR INAYAT ALI | ANATOMY | Head of CIC Spiral-1 |
| DR TAYYABA KAZMI | ANATOMY | Class In-charge 1ST Year MBBS |
| DR IFFAT | BIOCHEMISTRY | CO-ordinator of 1st year study guide and timetable team |
| DR ANEELA | ANATOMY | MEMBER |
| DR ALI | PHYSIOLOGY | MEMBER |
| DR FARHAN | BIOCHEMISTRY | MEMBER |
| DR HINA | PHARMACOLOGY | MEMBER |
| DR ROZINA | PATHOLOGY | MEMBER |
| DR RAFFEY | FORENSIC MEDICINE | MEMBER |
| DR AMMARA | COMMUNITY MEDICINE | MEMBER |
| DR MASOODA FATIMA | MEDICINE | MEMBER |
| DR DANISH/DR ABDULLAH | SURGERY | MEMBER |
| DR NIKHATASHRAF | GYNAE/OBS | MEMBER |
| DR MARIA | RESEARCH | MEMBER |
| DR MARIUM IBRAHIM | PEARLS | MEMBER |
| DR AZRA SHAHEEN | BEHAVIOUL SCIENCES | MEMBER |
| DR DANISH/DR ABDULLAH | ORTHOPEDICS | MEMBER |
| DR MEHWISH | RADIOLOGY | MEMBER |
| DR. KAHKASHAN PERVEEN | Biochemistry | Spiral-1 CBL Coordinator |

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| | | |
|---|---|---|
| DR. SHAHID PERVEZ | Anatomy | CBL team member |
| DR. SALIMULLAH | Physiology | CBL team member |

## INTRODUCTION TO MUSCULOSKELETAL MODULE GUIDE:

**Year to be taught: First Year M.B.B.S.2024- 2025**

**Placement of MSK Module:SECOND**

**Duration:** 10 **week**

**Tentative Date: As per updated timetable**

**Mode of assessment: End of module**

Musculoskeletal system Module is designed to provide guidance on introduction to the basics of human musculoskeletal system.It involoves understanding the anatomy ,physiology and common pathologies related to musculoskeletal system.this includes learning about bones ,joints ,muscles nerves and related structures as well as function and how they interact.Students also usually practical skills in clinical examination techniques relevant to musculoskeletal diseases.

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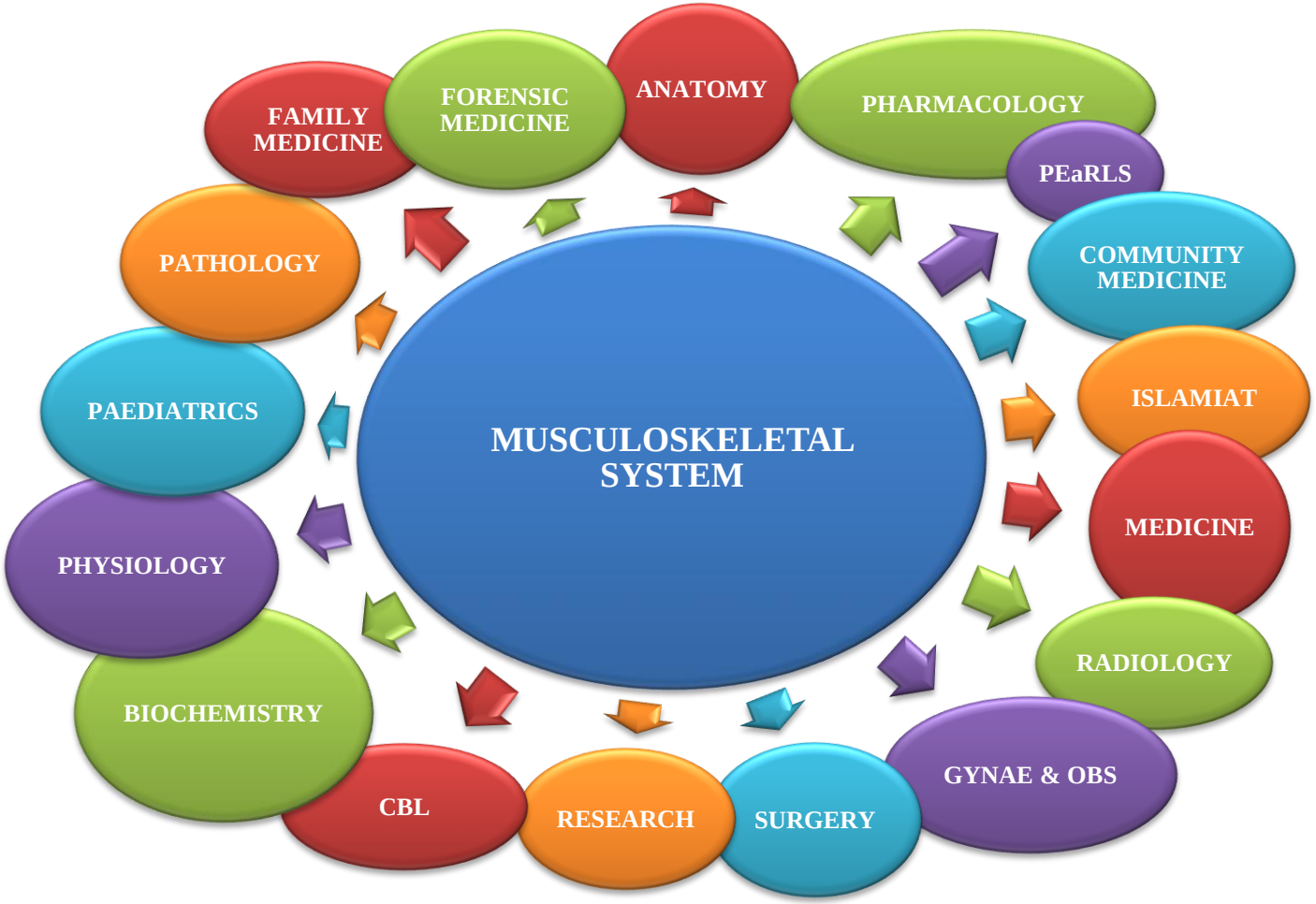

**BAQAI MEDICAL UNIVERSITY**
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**FIRST YEAR M.B.B.S.**
**MUSCULOSKELETAL MODULAR GUIDE 2024- 2025**

## MUSCULOSKELETAL MODULAR OUTCOMES

1)Recall the developmental gross structures of musculoskeletal system.

2)Explain the physiological and biochemical processes involved in muscle contraction and bone remodeling.

3)demonstrate physical examination techniques for the musculoskeletal system.

4)differentiate between common musculoskeletal disorders based on clinical presentations

5)Integrate anatomical and physiological knowledge to propose a management plan for musculoskeletal injuries.

6)assess the effectiveness of treatment interventions for musculoskeletal conditions.

## INTEGRATED TEACHING

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## At the end of this module, First Year M.B.B.S. student will be able to;

| | TOPICS WITH LEARNING OBJECTIVES: | DEPARTMENT | DURATION | FACILITATOR | TEACHING STRATEGY | VENUE |
|---|---|---|---|---|---|---|
| 1. | **DEVELOPMENT OF MESODERM AND SOMITE'S**<br>**At the end of lecture the 1st year mbbs students will be able to:**<br>• Describe the development of mesoderm.<br>• Describe the process of somitogenesis. | Anatomy | 60 minutes | Dr Tayyaba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 2. | **DEVELOPMENT OF BONE**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Describe the Intramembranous Ossification.<br>● Describe the Endochondral ossification. | Anatomy | 60 minutes | Dr Tayabba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 3. | **INTRODUCTION OF MSK**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Quote regarding structural and functional significance of musculoskeletal system<br>• Discuss regarding bones and its types structural and functional significance of musculoskeletal system<br>• Elaborate basic knowledge regarding cartilage structure function and types<br>• Review basic structure of joint and its types and discuss functional significance of every joint type | Medicine | 60minutes | Dr Masooda | Lecture | Lecture hall-1 Ground Floor, Block A |
| 4. | **POWER LAB 1** | Physiology | 60 minutes | Dr M Ali | Practical | Physiology lab 1st Floor, |

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| | **At the end of lecture the 1st year mbbs students will be able to :**<br>● Generate their own IDs on power lab:<br>● Identify wires & electrodes in power lab used for EMG<br>● Demonstrate the placements of wires & electrodes on biceps & triceps for EMG | | | | | Block A |
| 5. | **FUNCTIONS OF BONE CELLS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Identify the types of bone cells.<br>● Explain the function of osteoblast and osteoclast. | Physiology | 60 minutes | Dr M Ali | Lecture | Lecture hall-1 Ground Floor, Block A |
| 6. | **HISTOLOGY OF BONE-I**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Innayat | Lecture | Lecture hall-1, Ground |

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| | • Recognize bone and its composition.<br>• Differentiate between woven bone and lamellar bone. | | | | | Floor, Block A |
| 7. | **HISTOLOGY OF BONE-II**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Differentiate between compact bone and spongy bone. | Anatomy | 60 minutes | Dr Innayat | Lecture | Lecture hall-1, Ground Floor, Block A |
| 8. | **ANATOMY PRACTICAL**<br>**HISTOLOGY OF COMPACT BONE**<br>**At the end of practical the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Aneela | Practical | Histology lab 1st Floor, Block A |

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| | • Recognize bone and its composition.<br>• Explain the microscopic structure of compact bone<br>• Identify the slide of compact bone under light microscope | | | | | |
| 9. | **ANATOMY PRACTICAL**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>**HISTOLOGY OF SPONGY BONE**<br>• Recognize bone and its composition.<br>• Explain the microscopic structure of spongy bone<br>• Identify the slide of compact bone under light microscope | Anatomy | 60 minutes | Dr Aneela | Practical | Histology lab 1st Floor, Block A |

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| 10. | **POWER LAB 2**<br><br>**At the end of lecture the 1st year mbbs students will be able to :**<br><br>• Log in their own account on power lab<br>• Identify the locations for placements of wires & electrodes on biceps &triceps for EMG<br>• Apply the placements of wires & electrodes on subjects biceps &triceps for EMG | Physiology | 60 minutes | Dr M Ali | Practical | Physiology lab 1st Floor,<br><br>Block A |
| 11. | **ROLE OF COMPACT AND SPONGY BONE**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br><br>• Enumerate the functions of compact bone<br>• List the functions if spongy bone | Physiology | 60 minutes | Dr saba abrar | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Compare the similarities and functions of compact and spongy bone. | | | | | |
| 12. | **METABOLISM OF CA+ AND PHOSPHORUS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br><br>+<br>• Describe the metabolism of calcium &Po4<br>• List the dietary sources of calcium<br>• identify the daily requirements of calcium<br>• Explain the role of other minerals in bone growth | Biochemistry | 60 minutes | Dr Farhan | Lecture | Lecture hall-1, Ground Floor, Block A |
| 13. | **SYNTHESIS OF PARATHYROID HORMONE** | Biochemistry | 60 minutes | Dr Iffat | Lecture | Lecture hall-1, |

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| | **At the end of lecture the 1st year mbbs students will be able to :**<br>● Discuss the synthesis of parathyroid hormone<br>● Explain how parathyroid hormone,osteoblasts,osteoclasts function together to regulate the body's calcium levels. | | | | | Ground Floor, Block A |
| 14. | **ROLE OF PARATHYROID HORMONE IN BONE GROWTH**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Recognize the hormone released from parathyroid gland<br>● Explain the role of parathyroid hormone in Ca++ homeostasis via kidneys, intestines and bone. | Physiology | 60 minutes | Dr M Ali | Lecture | Lecture hall-1, Ground Floor, Block A |
| 15. | **SYNTHESIS OF CALCITONIN**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Biochemistry | 60 minutes | Dr Iffat | Lecture | Lecture hall-1, |

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| | • Discuss the synthesis of calcitonin<br>• Relate the role of calcitonin to regulate the metabolism of calcium | | | | | Ground Floor, Block A |
| 16. | **ROLE OF CALCITONIN IN BONE**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• List the hormone released from thyroid gland.<br>• Discuss the role of calcitonin hormone in Ca++ homeostasis via kidneys, intestines and bone. | Physiology | 60 minutes | Dr Iffat | Lecture | Lecture hall-1, Ground Floor, Block A |
| 17. | **SYNTHESIS OF VITAMIN D**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• List the dietary sources of vitamin D<br>• Identify the daily requirements of vitamin D | Biochemistry | 60 minutes | Dr Farhan | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Describe the synthesis of Vitamin D3 in body | | | | | |
| 18. | **ROLE OF VITAMIN D3 IN BONE**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Explain the role of vitamin D3 in Ca++ homeostasis via kidneys.<br>• Identify the role of vitamin D3 in Ca++ homeostasis via intestines.<br>• Identify the role of vitamin D3 in Ca++ homeostasis via bone. | Physiology | 60 minutes | Dr M Ali | Lecture | Lecture hall-1, Ground Floor, Block A |
| 19. | **CALCIUM HOMEOSTASIS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Identify the hormones involved in ca+ regulation<br>• Explain the role of different hormones in controlling the plasma Ca+ concentration. | Physiology | 60 minutes | Dr M ALI | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 20. | **VITAMIN D DEFICIENCY AND ITS PREVENTION**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Understand the role of vitamin D in body and its importance to maintain good health<br>• List the risk factors and consequences of vitamin D deficiency<br>• Discuss the prevention strategies of vitamin D deficiency | Community Medicine | 60 minutes | Dr Nazia jameel | Lecture | Lecture hall-1, Ground Floor, Block A |
| 21. | **ROLE OF OTHER HORMONES IN BONE GROWTH**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Interpret the role of growth hormone in bone growth | Physiology | 60 minutes | Dr M Ali | Lecture | Lecture hall-1 Ground Floor, Block A |
| 22. | **DEVELOPMENT OF AXIAL AND APPENDICULAR SKELETON** | Anatomy | 60 minutes | Dr Tayyaba | Lecture | Lecture hall-1, |

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| | **At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the development of axial skeleton<br>• Describe the development of appendicular skeletal | | | | | Ground Floor, Block A |
| 23. | **METABOLIC BONE DISORDERS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Classify & Define Metabolic Bone Disorders (Rickets and Osteomalacia)<br>• Briefly explain their etiopathogenesis and clinical features<br>• Enlist their investigations | Pathology | 60 minutes | Dr Nasima Iqbal | Lecture | Lecture hall-1, Ground Floor, Block A |
| 24. | **REMODELING OF BONE**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Physiology | 60 minutes | Dr M Ali | Lecture | Lecture hall-1, |

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| | • Explain the mechanism of deposition of bone by osteoblast<br>• Explain the mechanism of bone resorption by osteoclast<br>• Identify the role of parathyroid hormone in bone resorption. | | | | | Ground Floor, Block A |
| 25. | **INFECTIVE DISEASE OF BONE**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Define osteomyelitis<br>• Briefly explain their etiopathogenesis<br>• Briefly describe clinical features<br>• Enlist its investigation | Pathology | 60 minutes | Dr Nasima Iqbal | Lecture | Lecture hall-1, Ground Floor, Block A |
| 26. | **METABOLIC BONE DISEASES**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Classify metabolic bone diseases | Surgery | 60 minutes | Dr Asad hanif | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • List laboratory and radiographic tests.<br>• Define radiological findings. | | | | | |
| 27. | **OSTEOMYELITIS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Define osteomyelitis.<br>• Describes the types of osteomyelitis.<br>• Know the relevant laboratory and radiographic tests. | Surgery | 60 minutes | Dr Asad hanif | Lecture | Lecture hall-1, Ground Floor, Block A |
| 28. | **DEVELOPMENT OF CARTILAGE AND JOINT At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the development of cartilage.<br>• Describe the development of joint. | Anatomy | 60 minutes | Dr Tayyaba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • List the Functions of synovial fluid | | | | | |
| 29. | **HISTOLOGY OF CARTILAGE**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Explain the General properties of cartilage.<br>• List different types of cartilage.<br>• Identify the locations of Hyaline, Elastic and Fibrocartilage.<br>• Discuss properties of Hyaline, Elastic and Fibrocartilage. | Anatomy | 60 minutes | Dr Inayyat | Lecture | Lecture hall-1, Ground Floor, Block A |
| 30. | **CONGENITAL DISORDERS OF BONE AND CARTILAGE :**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Pathology | 60 minutes | Dr Nasima iqbal | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Introduction to pathology of BONE and muscle<br>• Briefly classify and describe congenital defects of bones<br>• Describe the etiopathogenesis and clinical course of Achondroplasia, Osteogenesis Imperfecta and Osteopetrosis. | | | | | |
| 31. | **EXTRACELLULAR MATRIX RELATED TO PROTEOGLYCANS1**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Explain the structure of proteoglycans and its biomedical importance in ECM<br>• Identify the types of mucopolysaccharides<br>• Describe the biomedical importance of mucopolysaccharides | Biochemistry | 60 minutes | Dr M Jamal | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 32. | **EXTRACELLULAR MATRIX RELATED TO PROTEOGLYCANS 2**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Explain the structure of proteoglycans and its biomedical importance in ECM<br>● Identify the types of mucopolysaccharides<br>● Describe the biomedical importance of mucopolysaccharides | Biochemistry | 60 minutes | Dr M Jamal | Lecture | Lecture hall-1, Ground Floor, Block A |
| 33. | **EXTRACELLULAR MATRIX RELATED TO COLLAGEN 1**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Explain the fibrous proteins<br>● Describe the role of vitamin C in collagen synthesis | Biochemistry | 60 minutes | Dr Iffat | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Discuss the role of collagen in extracellular matrix | | | | | |
| 34. | **EXTRACELLULAR MATRIX RELATED TO COLLAGEN2**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Explain the fibrous proteins<br>• Describe the role of vitamin C in collagen synthesis<br>• Discuss the role of collagen in extracellular matrix | Biochemistry | 60 minutes | Dr Iffat | Lecture | Lecture hall-1, Ground Floor, Block A |
| 35. | **DEVELOPMENT OF LIMBS 1**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Tayyaba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Describe the ossification of limb bones.<br>• Explain the early stages of limb development. | | | | | |
| 36. | **DEVELOPMENT OF LIMBS II**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Discuss the development of upper and lower limb buds.<br>• Describe the final stages of limb development.<br>• Explain the anomalies of the limbs. | Anatomy | 60 minutes | Dr Tayyaba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 37. | **CLASSIFICATION OF AMINO ACIDS-I**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Define and Classify amino acids<br>• Explain the structure of amino acids | Biochemistry | 60 minutes | Dr Iffat | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Discuss the biomedical importance of amino acids | | | | | |
| 38. | **HOPKIN COLE TEST:**<br><br>**At the end of lecture the 1st year mbbs students will be able to :**<br><br>• Demonstrate the presence of tryptophan in the given sample by hopkincole test<br>• Describe the principle of the reaction taking place in the experiment.<br>• Record the observations of the sample. | Biochemistry | 60 minutes | Dr Farhan | Practical | Biochemistry lab lab1st Floor,<br><br>Block A |

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| 39. | **CLASSIFICATION OF AMINO ACIDS-2**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Define and Classify amino acids<br>• Explain the structure of amino acids<br>• Discuss the biomedical importance of amino acids | Biochemistry | 60 minutes | Dr Iffat | Lecture | Lecture hall-1, Ground Floor, Block A |
| 40. | **NINHYDRIN TEST (DETECTION OF AMINO ACID PRACTICAL)**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe an α-amino acid.<br>• Detect the presence of an α-amino acid by ninhydrintest .<br>• Describe the principle of the reaction taking place in the experiment. | Biochemistry | 120minutes | Dr Farhan | Practical | Biochemistry lab 1st Floor, Block A |

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| | • Record the observations of the sample and control in the experiment | | | | | |
| 41. | **ESTIMATION OF ASCORBIC ACID:**<br><br>**At the end of lecture the 1st year mbbs students will be able to :**<br><br>• Estimate the amount of ascorbicacid in the given sample by titrating the sample and a standard solution of ascorbic acidwith 2,6 Dintrophenol.<br>• Name the reagents to be used in the experiment.<br>• Describe the principle of the reaction taking place in theexperiment. | Biochemistry | 60 minutes | Dr Farhan | Practical | Physiology lab lab1st Floor,<br><br>Block A |

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| | • Record the observations of thesample and Standard in theexperiment. calculate theconcentration of ascorbic acid in sample by using volume of dinitrophenol used to titrate the sample and standard | | | | | |
| 42. | **DEVELOPMENT OF MUSCLES**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the development of skeletal muscle.<br>• Discuss the development of Myotomes and derivatives of epaxial divisions of myotomes and derivatives of hypaxial divisions of myotomes. | Anatomy | 60 minutes | Dr Tayyaba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 43. | **HISTOLOGY OF MUSCLES**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Inayyat | Lecture | Lecture hall-1, Ground Floor, |

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| | • Identify three types of muscle at the light and electron microscope levels, including distinctive features of each muscle fiber.<br>• Describe the structural basis of muscle striations.<br>• Recognize the structural elements that produce muscle contraction and brings the movement of a body part.<br>• Recognize the function and organization of the connective tissue in muscle. | | | | | Block A |
| 44. | **ANATOMY PRACTICAL HISTOLOGY OF MUSCLES:**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the three types of muscles<br>• Identify the three types of muscles under the light microscope | Anatomy | 60 minutes | Dr Aneela | Practical | Histology lab 1st Floor, Block A |

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| 45. | **INTRODUCTION TO TYPES OF MUSCLES**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• List Types of Muscles.<br>• Describe Physiologic Arrangement of each Muscle Type.<br>• Discuss comparative Feature of each Muscle Type. | Physiology | 60 minutes | Dr M ALI | Lecture | Lecture hall-1, Ground Floor, Block A |
| 46. | **At the end of SGT the 1st year mbbs students will be able to :**<br>**DRAW A SARCOMERE SHOWING**<br>• A-band<br>• I-band<br>• Z-lines<br>• Components of f-actin filament<br>• Show how active sites are uncovered | Physiology | 60 minutes | Dr Adnan, Dr M Ali & Dr Leeza | SGT | Physio Lab & Physio LRC, 1st Floor, Block A |
| 47. | | | | | | |

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| 48. | **CLASSIFICATION OF PROTEIN**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Classify proteins based on size, shape and functions<br>● Classify proteins on basis of solubility and physical properties: simple, conjugated and derived proteins | Biochemistry | 60 minutes | Dr Iffat | Lecture | Lecture hall-1, Ground Floor, Block A |
| 49. | **MILLON NASSE'STEST (DETECTION OF AMINO ACID PRACTICAL):**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Demonstrate the presence of tyrosine in the given sample by millonnasse's test<br>● Describe the principle of the reaction.<br>● Record the observations of the | Biochemistry | 60 minutes | Dr Farhan | Practical | Biochemistry lab1st Floor,<br>Block A |

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| | sample. | | | | | |
| 50. | **STRUCTURAL ORGANIZATION OF PROTEIN-I**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Discuss the different structural configuration of proteins in detail<br>● Discuss the primary structure of protein<br>● Describe all the types of secondary structure as: α–helix, β-pleated sheet structure, triple helix and random coil.<br>● Identify the amino acids involved in maintaining the different types of secondary structure.<br>● Describe the tertiary structure of proteins<br>● Identify the bonds involved in tertiary structure formation | Biochemistry | 60 minutes | Dr M Jamal | lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Discuss briefly the quaternary structure | | | | | |
| 51. | **XANTHOPROTEIC TEST:**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Detect the presence of aromatic amino acids by xanthoproteic test.<br>• Describe the principle of the reaction taking place in the experiment.<br>Record the observations of the sample and control in the experiment. | Biochemistry | 60 minutes | Dr Farhan | Practical | Biochemistry lab1st Floor,<br>Block A |
| 52. | **MALNUTRITION IN CHILDREN**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Define protein energy Malnutrition. | Community Medicine | 60 minutes | Dr Nazia jameel | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Describe the disease caused by protein energy Malnutrition its children.<br>• Discuss the prevention of protein energy Malnutrition. | | | | | |
| 53. | **NEURON**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Define neuron<br>● Identify the physiologic parts of neuron<br>● Classify the types of neuron along with their functions. | Physiology | 60 minutes | Proff Dr Qamar Aziz | Lecture | Lecture hall-1, Ground Floor, Block A |
| 54. | **CLASSIFICATION OF NERVE FIBERS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Define nerve fibers | Physiology | 60 minutes | Dr Saba Abrar | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Classify the types of nerve fibers along with their functions.<br>• List numerical classification of nerve fibers | | | | | |
| 55. | **EXERCISE 2:**<br><br>**DEMONSTRATION OF LATENCY PERIOD**<br><br>• **By changing position of stimulus observe change in latency period(L2+L1)** | Physiology | 60 minutes | Dr M Ali | Practical | Physiology lab 1st Floor,<br><br>Block A |
| 56. | **At the end of SGT the 1st year mbbs students will be able to solve :**<br>**SCENARIO ON LOCAL ANAESTHESIA**<br>• A 15 year old boy has a boil in his forearm. The surgeon decides to incise and drain it. He injects a local anaesthetic agent which anaesthetises the area.<br>• Explain mechanism of action | Physiology | 60 minutes | Dr Adnan, Dr M Ali & Dr Leeza | SGT | Physio Lab & Physio LRC1st Floor, Block A |

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| | • Identify nerve which is most susceptible to local anaesthesia | | | | | |
| 57. | **RESTING MEMBRANE POTENTIAL**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Define the Resting Membrane Potential (RMP) and its value.<br>• Enlist the electrolytes, responsible for generating Resting Membrane Potential.<br>• Define the role of K+ & Na+ diffusion potential in generating Resting Membrane Potential<br>• Define the role of $Na^+$ - $K^+$ electrogenic pump in generating Resting Membrane Potential.<br>• Identify the importance of Nernst Potential, Nernst and Goldman equation. | Physiology | 60 minutes | Dr M Ali | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 58. | **ACTION POTENTIAL**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Define action potential.<br>• List the stages of action potential.<br>• Explain the role of different channels in various stages of action potential.<br>• Differentiate between graded potential & the action potential.<br>• Define the terms polarized, depolarized, repolarized, hyperpolarized and myelination.<br>• Identify the role of other ions during action potential | Physiology | 60 minutes | Dr Saba Abrar | Lecture | Lecture hall-1, Ground Floor, Block A |
| 59. | **DRAW AN ACTION POTENTIAL OF A NERVE, DRAW AND EXPLAIN PLATEU FORMATION IN CARDIAC MUSCLE** | Physiology | 60 minutes | Dr. Adnan, Dr M Ali & Dr. Leeza | SGT | Physio Lab, LRC Physi 1st Floor, |

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| | **At the end of SGT the 1st year mbbs students will be able to :**<br>• Explain the curve by labeling different phases in a nerve fiber<br>• Explain the curve by labeling different phases in a cardiac muscle showing plateu<br>• Identify the importance of plateu | | | | | Block A o |
| 60. | **PROPAGATION OF ACTION POTENTIAL**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Classify nerve fiber on basis of nerve conduction velocity<br>• Define salutatory conduction<br>• Explain the mechanism involved in the Propagation of action potential | Physiology | 60 minutes | Dr M Ali | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 61. | **SYNTHESIS OF ACETYLCHOLINE**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Discuss the biosynthesis and metabolism of Acetylcholine<br>● Identify the hydrolysis product of Acetylcholine and various acetylcholine inhibitors. | Biochemistry | 60 minutes | Dr Iffat | Lecture | Lecture hall-1, Ground Floor, Block A |
| 62. | **LEAD SULPHIDE TEST (DETECTION OF AMINO ACID PRACTICAL)**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Demonstrate the presence of Sulphur containing amino acid by lead sulphide test<br>● Describe the principle and observe the results. | Biochemistry | 60 minutes | Dr Farhan | Practical | Physiology lab lab1st Floor,<br>Block A |

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| 63. | **NEUROMUSCULAR JUNCTION**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Define the term neuromuscular junction.<br>● List the Components of Neuromuscular Junction.<br>● Describe the motor end plate with suitable diagram.<br>● Define the function of mitochondria in presynaptic nerve fibers.<br>● Identify the physiologic parts at neural membrane<br>● Explain the role of acetylcholine in neuromuscular junction | Physiology | 60 minutes | Dr saba abrar | Lecture | Lecture hall-1, Ground Floor, Block A |
| 64. | **At the end of SGT the 1st year mbbs students will be able to :**<br>**DESCRIBE NMJ WITH THE HELP OF DIAGRAM SHOWING** | Physiology | 60 minutes | Dr Adnan, Dr M Ali & Dr Leeza | SGT | Physio Lab & Physio LRC 1st Floor, |

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| | • Sarcolemma<br>• Sarcoplasmic reticullum<br>• T-tubules<br>• Triad<br>• Transmission of impulse at nmj | | | | | Block A |
| 65. | **MUSCULAR DYSTROPHIES**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Classify Congenital and Acquired Myopathies<br>• Briefly explain the Etiopathogenesis, Morphology and Clinical Features of Duchenne Muscular Dystrophy. | Pathology | 60 minutes | Dr Nasima Iqbal | Lecture | Lecture hall-1, Ground Floor, Block A |
| 66. | **OVERVIEW OF PHARMACOLOGY OF SKELETAL MUSCLE RELAXANTS**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Pharmacology | 60 minutes | Dr hina /dr sehrish | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Describe the physiology of neuromuscular transmission at the skeletal neuromuscular endplate.<br>• Explain the pathophysiology of skeletal neuromuscular disease.<br>• Discuss and understand the mechanistic pharmacology of skeletal neuromuscular disease. | | | | | |
| 67. | **IMPULSE TRANSMISSION AT NMJ**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br><br>• Identify the function of Channels & Receptors at NMJ.<br>• Explain the Pre – Synaptic & Post – Synaptic Events during Impulse Transmission.<br>• Differentiate between "Miniature EPP & EPP". Explain the mechanism of impulse conduction at NMJ. | Physiology | 60 minutes | Dr M Ali | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Summarize the development of end – plate potential | | | | | |
| 68. | **EMG & NCV:**<br><br>**At the end of lecture the 1st year mbbs students will be able to :**<br><br>• Record EMG of median nerve by voluntary muscular contraction<br>• Investigate how contractile forces change with increasing demand<br>• Examine the activity of antagonist muscle & the phenomenon of co-activation<br>• Record the EMG by stimulating the median nerve<br>• Measure NCV from difference in latencies between responses evokedby nerve stimulation at wrist & elbow. | Physiology | 60 minutes | Dr M Ali | Practical | Physiology lab 1st Floor,<br><br>Block A |
| 69. | **DISEASES OF NEUROMUSCULAR JUNCTION** | Pathology | 60 minutes | Dr Nasima Iqbal | Lecture | Lecture hall-1, |

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| | **At the end of lecture the 1st year mbbs students will be able to :**<br><br>● Define Mysthenia Gravis<br>● Briefly describe its Etiopathogenesis and Clinical Features<br>● Enlist its laboratory investigations | | | | | Ground Floor, Block A |
| 70. | **INTRODUCTION OF UPPER LIMB**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br><br>● Discuss the extension of upper limb.<br>● Describe the different parts of the upper limb<br>● Recognize the bones of upper limb.<br>● Enlist the arteries, veins and nerves of upper limb. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, B |
| 71. | **ANATOMY PRACTICAL** | Anatomy | 60 minutes | Dr Aneela | Practical | LRC |

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| | **UPPER LIMB BONES**<br>**At the end of lecture the 1st year mbbs students will be able to;**<br>• Describe the origion and insertion of muscles<br>• Describe the nerve supply and action of muscles. | | | | | Ground Floor,<br>Block A |
| 72. | **CLAVICLE**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bone and side determination<br>• Describe the Anatomical position of bone<br>• Recognize different features , surfaces and borders of bone<br>• Discuss the ossification of bone | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |

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| 73. | **CLAVICLE**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Describe the attachment of muscles.<br>• Discuss the applied aspects. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 74. | **HUMERUS**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bone and side determination<br>• Describe the Anatomical position of bone<br>• Recognize different features , surfaces and borders of bone<br>• Discuss the ossification of bone | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |

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| 75. | **HUMERUS**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Describe the attachment of muscles.<br>• Discuss the applied aspects. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 76. | **SCAPULA**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bone and side determination<br>• Describe the Anatomical position of bone<br>• Recognize different features , surfaces and borders of bone<br>• Discuss the ossification of bone | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |

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| 77. | **SCAPULA**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Describe the attachment of muscles.<br>• Describe its applies aspects | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 78. | **PECTORAL REGION**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Identify the location of pectoral region<br>• Describe the cutaneous supply of pectoral region.<br>• Discuss the fascia of pectoral region.<br>• List the muscles of pectoral region. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall 1 Ground Floor, Block A |

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| | • Describe the attachments of muscles and neurovascular supply and actions.<br>• List the lymphatic drainage of pectoral region. | | | | | |
| 79. | **TYPES OF SKELETAL MUSCLES**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• List the types of Skeletal Muscles<br>• Compare the activity of slow & fast twitch fibers of skeletal muscle.<br>• Explain the functions of slow twitch fibers and fast twitch fibers. | Physiology | 60 minutes | Dr M Ali | Lecture | Lecture hall-1, Ground Floor, Block A |
| 80. | **SARCOMERE**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Physiology | 60 minutes | Prof Qamar Aziz | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Describe general features of skeletal muscle<br>• Define sarcomere & its physiological importance in skeletal muscle<br>• Explain basic components & physiology of different bands present in sarcomere | | | | | |
| 81. | **PROPERTIES OF SKELETAL MUSCLE**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• List the properties of skeletal<br>• muscle fibers<br>• Define each property of skeletal muscle fibers<br>• Explain the mechanism of each property of skeletal muscle fibers | Physiology | 60 minutes | Dr Saba Abrar | Lecture | Lecture hall-1, Ground Floor, Block A |
| 82. | **SKELETAL MUSCLE –I**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Physiology | 60 minutes | Dr Qamar Aziz | Lecture | Lecture hall-1, |

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| | • Identify the physiological components of skeletal muscle<br>• Explain the physiologic characteristics of Myosin and Actin molecules<br>• Describe the General mechanism of muscle contraction | | | | | Ground Floor, Block A |
| 83. | **SKELETAL MUSCLE –II**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the sequential steps involved in initiation and execution of muscle contraction<br>• Describe the molecular mechanism involved in muscle contraction<br>• Explain the molecular characteristics of contractile filament.<br>• List the sources of energy for muscle contraction. | Physiology | 60 minutes | Dr Saba Abrar | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Compare the action potential of neuron with skeletal muscles | | | | | |
| 84. | **EXERCISE 1:**<br><br>**MOTOR UNIT RECRUITMENT:**<br><br>• **By increasing weight /force observe increase in amplitude of record due to increase recruitment of motor units.** | Physiology | 60 minutes | Dr M Ali | Practical | Physiology lab 1st Floor,<br><br>Block A |
| 85. | **GENERAL PRINCIPLES OF FRACTURE MANAGEMENT**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe types of fractures<br>• Define signs and symptoms<br>• Explain briefly the management principles in fracture | Surgery | 60 minutes | Dr Asad hanif | Lecture | Lecture hall-1, Ground Floor, Block A |
| 86. | **DISORDRS OF MUSCLES 1:**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Pathology | 60 minutes | Dr Nasima iqbal | Lecture | Lecture hall-1, |

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| | • Briefly Define and describe the Etiopathogenesis and Clinical Features of the following conditions:<br>• Tumour like conditions (Myositis Ossificans)<br>• Fibroma<br>• Fibrosarcoma<br>• Synovial Sarcoma | | | | | Ground Floor, Block A |
| 87. | **DISORDERS OF MUSCLES 11:**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Classify Congenital and Acquired Myopathies<br>• Briefly explain the Etiopathogenesis, Morphology and Clinical Features of Duchenne Muscular Dystrophy. | Pathology | 60 minutes | Dr Nasima Iqbal | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 88. | **PECTORAL GIRDLE- STERNOCLAVICULAR JOINT, ACROMIOCLAVICULAR JOINT**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the joints.<br>• Describe the articulation of joint<br>• Classify the type of joint.<br>• Enlist the ligaments of joint<br>• List the muscle acting on the joint.<br>• Explain movement at joint.<br>• Discuss clinical aspect of joint. | Anatomy | 60 minutes | Dr Anila/ Dr Ayesha/ Dr Hina | SGT | Lecture hall 1/ Dissection hall/ Seminar room Ground Floor, Block A |
| 89. | **SHOULDER JOINT I** | Anatomy | 60minutes | Dr saba | Lecture | |

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| | **At the end of lecture the 1st year mbbs students will be able to :**<br>• Classify the type of shoulder joint<br>• Describe the structure of shoulder joint.<br>• List the muscles acting on shoulder joint<br>• Explain the movement of shoulder joint.<br>• Discuss the clinical aspect of shoulder joint<br>• Describe the rotator cuff muscle | | | | | Lecture hall-1, Ground Floor, Block A |
| 90. | **SHOULDER JOINT II**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Discuss the nerve supply of shoulder joint<br>• Describe the blood supply of shoulder joint | Anatomy | 60minutes | Dr saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 91. | **SCAPULAR OR SHOULDER REGION**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Name muscles of shoulder region.<br>• Describe the attachment and neurovascular supply of muscles.<br>• Define rotator cuff.<br>• Discuss the anatomical spaces of scapular region.<br>• Discuss the applied aspect of scapular region. | Anatomy | 60 minutes | Dr Anila/ Dr Ayesha/ Dr Hina | SGT | Lecture hall 1/ Dissection hall/ Seminar room Ground Floor, Block A |
| 92. | **SHOULDER RADIOLOGICAL ANATOMY**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enumerate shoulder radiological anatomy | Radiology | 60 minutes | Dr Aneel | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Locate different important radiological land marks. | | | | | |
| 93. | **FRACTURE HEALING AND IT'S COMPLICATIONS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Explain the healing process after fracture<br>• Define the terms union and non-union in regards to fracture.<br>• Describe the factors of non-union of fracture | Surgery | 60 minutes | Dr Naveed | Lecture | Lecture hall-1, Ground Floor, Block A |
| 94. | **AXILLA**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the shape and position of axilla.<br>• Name the muscles forming the boundaries of axilla | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1 Ground Floor, Block A |

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| | • Name the contents of axilla<br>• Discuss the formation, course and relation of axillary vessels.<br>• Describe the group of axillary lymph nodes and their arrangements | | | | | |
| 95. | **BRACHIAL PLEXUS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the formation of brachial plexus its root value and division (roots, trunk, division and cords)<br>• Discuss the relation of brachial plexus.<br>• Name the branches arising from roots, trunk and cords.<br>• List the muscle and area of skin supplied by branches of brachial plexus. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1 Ground Floor, Block A |

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| | • Illustrate the brachial plexus. | | | | | |
| 96. | **BRACHIAL PLEXUSES CLINICS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Discuss the injuries of brachial plexus and resulting deformities of upper limb. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 97. | **MUSCULOSKELETAL DISORDERS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Define musculoskeletal injuries and list the risk factors<br>• Identify different types of musculoskeletal injuries<br>• Explain the principles of ergonomics and how they can be | Community Medicine | 60 minutes | Dr Nazia jameel | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | applied to prevent musculoskeletal injuries | | | | | |
| 98. | **DISORDERS :OF JOINTS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Briefly classify its different types of arthritis<br>• Describe its etiopathogenesis and clinical course. | Pathology | 60 minutes | Dr Nasima Iqbal | Lecture | Lecture hall-1, Ground Floor, Block A |
| 99. | **ARTHRITIS:**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Define Arthritis.<br>• Explain the types of Arthritis.<br>• Elustriate the preventive strategies regarding Arthritis | Medicine | 60 minutes | Dr Masooda | Lecture | Lecture hall-1, Ground Floor, Block A |
| 100. | **SEPTIC ARTHRITIS**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Surgery | 60 minutes | Dr Naveed | Lecture | Lecture hall-1, |

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| | • Define arthritis and its types<br>• Explain clinical features of septic arthritis<br>• Describe the investigations to diagnose septic arthritis | | | | | Ground Floor, Block A |
| 101. | **OVERVIEW OF PHARMACOLOGY OF DRUGS USE TO TREAT BONE DISORDERS**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the physiology of osteoporosis, rickets and osteomalacia.<br>• Explain the pathophysiology of osteoporosis, rickets and osteomalacia.<br>• Discuss and understand the mechanistic pharmacology of | Pharmacology | 60 minutes | Dr hina/dr sehrish | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | osteoporosis, rickets and osteomalacia. | | | | | |
| 102. | **BACK**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Name the muscles of back.<br>• Describe the attachment of muscles of back and their neurovascular supply.<br>• Explain the action of back muscle.<br>• Describe the clinical correlation of back muscles. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 103. | **ARM (ANTERIOR COMPARTMENT)**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the compartments of arm and formation of these compartment | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |

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| | • Name the muscles of anterior compartment of arm.<br>• Discuss the attachment and their neurovascular supply and action. | | | | | |
| 104. | **ARM (POSTERIOR COMPARTMENT)**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• List the muscle of posterior compartment of arm.<br>• Describe their attachment, neurovascular supply and action. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 105. | **OSTEOLOGY OF RADIUS**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bone and side determination | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, |

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| | • Describe the Anatomical position of bone<br>• Recognize different features , surfaces and borders of bone<br>• Discuss the ossification of bone | | | | | Block A |
| 106. | **OSTEOLOGY OF RADIUS**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Discuss the muscle attachment of bone<br>• Discuss its clinical aspects | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 107. | **OSTEOLOGY OF ULNA**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bone and side determination | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room |

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| | • Describe the Anatomical position of bone<br>• Recognize different features, surfaces and borders of bone<br>• Discuss the ossification of bone | | | | | Ground Floor, Block A |
| 108. | **OSTEOLOGY OF ULNA**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Describe the muscle attachment.<br>• Discuss its clinical aspects | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 109. | **ELBOW JOINT**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Classify the type of joint.<br>• Describe the structure of joint.<br>• Describe the muscles acting on joint. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |

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| | • Discuss the neurovascular supply of joint.<br>• Describe the carrying angle and applied aspect. | | | | | |
| 110. | **ANASTOMOSIS AROUND ELBOW JOINT.**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the anastomosis around elbow joint.<br>• Discuss the clinical importance | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 111. | **ELBOW JOINT AND RADIUS ULNA RADIOLOGICAL ANATOMY**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enumerate elbow joint and radius & ulna radiological anatomy.<br>• To locate important radiological landmarks**.** | Radiology | 60 minutes | Dr Aneel | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 112. | **ANTERIOR COMPARTMENTS OF FOREARM**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the muscle of anterior compartment of forearm.<br>• Describe muscle attachment and action of anterior compartments of forearm | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 113. | **MUSCLES OF POSTERIOR COMPARTMENT OF FOREARM**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the muscles of posterior compartment and their neurovascular supply.<br>• Describe the attachment and action of muscles of posterior compartment. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room |

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| 114. | **CUBITAL FOSSA**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Identify the location of cubital fossa.<br>• Describe the boundaries and content of cubital fossa. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 115. | **OSTEOLOGY OF HAND**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the small bones; carpals, metacarpals and phallanges.<br>• Discuss their arrangement in hand. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 116. | **OSTEOLOGY OF HAND II**<br>**At the end of SGT the 1st year mbbs students will be able to :** | **Anatomy** | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, |

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| | • Describe the muscle attachment of bones of hand<br>• Describe its clinical aspects | | | | | Seminar Room Ground Floor, Block A |
| 117. | **SUPERIOR AND INFERIOR RADIOULNAR JOINTS**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Classify the joints.<br>• Describe the radioulnar joint and their neurovascular supply.<br>• Discuss the movement of these joint.<br>• Explain clinical correlation of joint. | **Anatomy** | 60minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 118. | **WRIST JOINT**<br>**At the end of SGT the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room |

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| | • Describe the wrist joint and their neurovascular supply.<br>• Discuss the movement occurring at wrist joint.<br>• Explain clinical aspect of joints. | | | | | Ground Floor, Block A |
| 119. | **SMALL JOINTS OF HAND**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Classify the intercarpal, metacarpal. Metacarpophalangeal and interphalangeal joints. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 120. | **RETINACULUM**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enumerate the retinaculum of foot.<br>• Describe their attachment and location. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Enlist the structures pass superficial and deep to the retinaculum. | | | | | |
| 121. | **PALM OF HAND**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enumerate the intrinsic muscle of hand.<br>• Describe the attachment and action of the muscles of hand.<br>• Discuss the nerve supply of hand muscle. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 122. | **FRACTURES OF UPPER LIMB**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Know fracture patterns according to mechanism of injury<br>● Explain neuro vascular damage according to site of injury | Surgery | 60 minutes | Dr Naveed | Lecture | Lecture hall-1, Ground Floor, Block A |
| 123. | **SPACES OF HAND**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Identify the different spaces of hand on both dorsal and palmar aspect.<br>● Describe the spaces of hand.<br>● Describe the clinical importance of these spaces | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 124. | **BLOOD VESSELS AND LYMPHATIC DRAINAGE OF UPPER LIMBS.**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Enumerate the arteries and veins of the upper limb<br>• Describe its course and branches.<br>• Discuss the formation of superficial and deep palmar arches.<br>• Describe the lymphatic drainage of upper limb | | | | | |
| 125. | **CUTANEOUS SUPPLY OF UPPER LIMB**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the cutaneous supply and dermatomes of upper limb. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall 1, Ground Floor, Block A |
| 126. | **INTRODUCTION OF LOWER LIMB**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall 1, Ground Floor, Block A |

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| | • Identify the different parts of the lower limb<br>• Recognize the bones of the lower limb and discuss the facial compartment of each part of lower limb | | | | | |
| 127. | **ANATOMY PRACTICAL**<br>**LOWER LIMB BONES:**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the origion and<br>• insertion of muscles<br>• Describe the nerve supply and action of muscles. | Anatomy | 60 minutes | Dr Aneela | Practical | LRC,<br>Ground Floor,<br>Block A |
| 128. | **CUTANEOUS SUPPLY, SUPERFICAL VEINS AND LYMPHATIC DRAINAGE OF LOWER LIMB** | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall 1, Ground Floor ,Block A |

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| | **At the end of lecture the 1st year mbbs students will be able to :**<br>• Name the cutaneous supply of each compartment of lower limb<br>• Describe the superficial veins and lymphatic drainage of lower limb with clinical aspects. | | | | | |
| 129. | **OSTEOLOGY OF HIP BONE**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bone and side determination<br>• Describe the Anatomical position of bone<br>• Recognize different features , surfaces and borders of bone<br>• Discuss the ossification of bone | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissectio n hall, Seminar Room Ground Floor, Block A |
| 130. | **OSTEOLOGY OF HIP BONE II** | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissectio |

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| | **At the end of SGT the 1st year mbbs students will be able to :**<br>• Describe the attachements of muscles of bone<br>• Describe its clinical aspects | | | | | n hall, Seminar Room Ground Floor, Block A |
| 131. | **OSTEOLOGY OF FEMUR**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bone and side determination<br>• Describe the Anatomical position of bone<br>• Recognize different features , surfaces and borders of bone<br>• Discuss the ossification of bone | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissectio n hall, Seminar Room Ground Floor, Block A |
| 132. | **OSTEOLOGY OF FEMUR II**<br>**At the end of SGT the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissectio n hall, Seminar |

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| | • Describe the attachments of muscle.<br>• Describe its clinical aspects | | | | | Room Ground Floor, Block A |
| 133. | **HIP JOINT**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bones of hip joint.<br>• Describe the structure of hip joint.<br>• Classify the type of hip joint.<br>• List the ligaments of hip joint.<br>• Explain the movement of joint. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 134. | **GLUTEAL REGION**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Identify the bone and muscles of gluteal region.<br>• Explain the action of muscles of gluteal region. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 135. | **GLUTEAL REGION**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Describe the nerve and blood supply of gluteal region.<br>● Discuss the greater and lesser sciatic foramen and their contents. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 136. | **THIGH ANTERIOR COMPARTMENT**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Describe the attachments, action nerve supply of the muscles of anterior compartment of thigh. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 137. | **FEMORAL TRIANGLE AND ADDUCTOR CANAL**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Describe the boundaries and content of femoral triangle.<br>• Explain clinical significance of femoral canal.<br>• Discuss Femoral hernia<br>• Enumerate its causes and type<br>• Describe the boundaries and content of adductor canal<br>• Explain clinical significance of adductor canal | | | | | |
| 138. | **THIGH MEDIAL AND POSTERIOR COMPARTMENT**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Enlist the muscles of medial and posterior compartment of thigh.<br>● Discuss the nerve supply and action of muscles.<br>● Overview of the course and branches of obturator and sciatic nerve. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Explain the blood supply of both compartments. | | | | | |
| 139. | **HIP JOINT RADIOLOGICAL ANATOMY**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enumerate hip joint radiological anatomy.<br>• To locate important radiological landmarks. | Radiology | 60 minutes | Dr Aneel | Lecture | Lecture hall-1, Ground Floor, Block A |
| 140. | **SCIATIC NERVE**<br>**At the end of the lecture 1st year mbbs students will be able to :**<br>• Describe root value of Sciatic Nerve<br>• Describe the course and relation of sciatic nerve<br>• Enumerate the branches of Sciatic Nerve | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1,, Ground Floor, Block A |

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| | • Discuss the clinical aspect | | | | | |
| 141. | **OSTEOLOGY OF TIBIA**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bone and side determination<br>• Describe the Anatomical position of bone<br>• Recognize different features , surfaces and borders of bone<br>• Discuss the ossification of bone | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 142. | **OSTEOLOGY OF TIBIA II**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Describe the muscle attachment on tibia. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room |

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| | • Discuss applied aspect of tibia. | | | | | Ground Floor, Block A |
| 143. | **OSTEOLOGY OF FIBULA**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Identify the bone and side determination<br>• Describe the Anatomical position of bone<br>• Recognize different features , surfaces and borders of bone<br>• Discuss the ossification of bone | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 144. | **OSTEOLOGY OF FIBULA**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Describe the muscle attachment on tibia<br>• Discuss its clinical aspects | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection Hall, Seminar Room Ground Floor, Block A |

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| 145. | **KNEE JOINT**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>● Describe the structure and type of knee joint.<br>● Enlist the intra and extra capsular ligaments of knee joint.<br>● Explain the mechanism of locked and unlocked knee.<br>● Describe nerve and blood supply of knee joint.<br>● Describe injuries related to knee joint. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 146. | **POPLITEAL FOSSA**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>● Identify the location of popliteal fossa. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Describe its boundaries and content. | | | | | |
| 147. | **LEG ANTERIOR AND LATERAL COMPARTMENT**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Enlist the muscle of lateral and anterior compartment of leg with attachment & action.<br>• Describe neurovascular supply of lateral compartment. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |
| 148. | **LEG POSTERIOR COMPARTMENT**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Enlist the muscle of posteriorcompartment of leg with attachment & action.<br>• Describe neurovascular supply of posterior compartment. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |

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| | • Describe the deformities related to tibial nerve injury. | | | | | |
| 149. | **At the end of SGT the 1st year mbbs students will be able to :**<br>**KNEE JOINT AND TIBIA FIBULA RADIOLOGICAL ANATOMY.**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Enumerate knee joint radiological anatomy.<br>• To locate important radiological landmarks. | Surgery | 60 minutes | Dr Naveed | Lecture | Lecture hall-1, Ground Floor, Block A |
| 150. | **OSTEOLOGY OF FOOT At the end of SGT the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, |

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| | • Identify the bones of foot; tarsal, metatarsal and phalanges.<br>• Understand the arrangement of tarsal bones.<br>• Describe the bony arches of foot.<br>• Discuss the fractures and clinical aspect of bones of foot. | | | | | Seminar Room Ground Floor, Block A |
| 151. | **OSTEOLOGY OF FOOT II**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Describe the muscle attachment of bones of foot.<br>• Describe its clinical aspects | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection Hall, Seminar Room Ground Floor, Block A |
| 152. | **SUPERIOR AND INFERIOR TIBIOFIBULAR JOINT AND SMALL JOINTS OF FOOT**<br>**At the end of SGT the 1st year mbbs students will be able to :** | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room |

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| | • Discuss the articulation and type of joints.<br>• Describe the muscles attachments and their actions on these joints | | | | | Ground Floor, Block A |
| 153. | **ANKLE JOINT**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Describe the structure of ankle joint.<br>• Demonstrate movement of ankle joint.<br>• Describe its blood and nerve supply.<br>• Discuss injuries related to ankle joint. | Anatomy | 60 minutes | Dr Aneela/Dr Ayesha/Dr Hina | SGT | LRC, Dissection hall, Seminar Room Ground Floor, Block A |

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| 154. | **RETINACULUM**<br>**At the end of SGT the 1st year mbbs students will be able to :**<br>• Enumerate the retinaculum of foot.<br>• Describe their attachment and location.<br>• Enlist the structures pass superficial and deep to the retinaculum. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 155. | **ARCHES OF THE FOOT**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enlist the bones involved in arches of foot<br>• Discuss the formation of arches of foot<br>• Discuss the supports of arches<br>• Discuss its clinical aspects | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 156. | **DORSUM OF FOOT**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enlist the long extensor tendons of dorsum of foot.<br>• Describe the course of dorsalis pedis artery.<br>• Describe the nerve supply and superficial venous arches of dorsum of foot. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |
| 157. | **SOLE OF THE FOOT**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the plantar fascia and its applied aspects.<br>• Describe the contents of each layer of sole of the foot.<br>• Describe the neurovascular supply of the sole of the foot. | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 158. | **VASCULAR SUPPLY OF LOWER LIMB**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enlist the arteries of lower limb<br>• Discuss the course and branches of the femoral and popliteal arteries<br>• Discuss the formation of small and great saphenous vein | Anatomy | 60 minutes | Dr Saba | Lecture | Lecture hall-1 Ground Floor, Block A |
| 159. | **KNEE JOINT AND TIBIA FIBULA RADIOLOGICAL ANATOMY.**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enumerate knee joint radiological anatomy.<br>• To locate important radiological landmarks. | Radiology | 60 minutes | Dr Aneel | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 160. | **ANKLE JOINT AND FOOT RADIOLOGICAL ANATOMY**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Enumerate ankle joint and foot radiological anatomy.<br>• To locate important radiological landmarks. | Radiology | 60 minutes | Dr Aneel | Lecture | Lecture hall-1, Ground Floor, Block A |
| 161. | **ISLAMIAT:**<br>**LIFE OF HOLY PROPHET (S.A.W.) IN MAKKAH:**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe and explain the life of holy Prophet (SAWS) in makkah in detail | Islamiat | 60 minutes | Dr Uzma | Lecture | Lecture hall-1, Ground Floor, Block A |

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| 162. | **IMPORTANT LESSONS DERIVED FROM THE LIFE OF HOLY PROPHET (S.A.W.) IN MAKKAH:**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Give examples of important lessons learned from the life of Prophet PBUH in detail | Islamiat.. | 60 minutes | Dr Uzma | Lecture | Lecture hall-1, Ground Floor, Block A |
| 163. | **LIFE OF HOLY PROPHET (S.A.W.) IN MADINA:**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• Describe the life of holy Prophet PBUH in madina in detail | Islamiat | 60 minutes | Dr Uzma | Lecture | Lecture hall-1, Ground Floor, Block A |
| 164. | **IMPORTANT EVENTS OF LIFE HOLY PROPHET (S.A.W.) IN MADINA:**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Islamiat | 60 minutes | Dr Uzma | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Relate the events from the life of Prophet PBUH with our daily life with examples | | | | | |
| 165. | **IMPORTANT LESSONS DERIVED FROM THE LIFE OF HOLY PROPHET (S.A.W.) IN MADINA:**<br>**At the end of lecture the 1st year mbbs students will be able to :**<br>• List the important events from the life of Prophet PBUH Explain indetail one of the important event from the life of Prophet PBUH | Islamiat | 60 minutes | Dr Uzma | Lecture | Lecture hall-1, Ground Floor, Block A |
| 166. | **BEHAVIOURAL SCIENCES**<br>**At the end of lecture the 1st year mbbs students will be able to :** | Psychiatry | 60minutes | Proff Dr Azra Shaheen | Lecture | Lecture hall-1, Ground Floor, Block A |

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| | • Introduction of behavioural sciences<br>• Link of health with behavioural sciences<br>• Importance of health in behavioural sciences | | | | | |

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**WEEK 1**

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30-11:30 | 11:30-12:30 | 12:30-1:15 | 1:00- 1:15 | 1:15-2:30 |
|---|---|---|---|---|---|---|---|
| MONDAY 18-03-24 | FOUNDATION MODULE | | | | | | |
| TUESDAY 19-03-24 | **EMBRYO** DEVELOPMENT OF MESODERM AND SOMITE'S **DR TAYYABA** | **PHYSIO** FUNCTIONS OF BONE CELLS **DR SABA ABRAR** | **HISTOLOGY** BONE-I **DR INAYAT** | **SDL** | **PHYSIO** ROLE OF COMPACT AND SPONGY BONE **PROFESSOR DR QAMAR AZIZ** | **PRAYER** | **EMBRYO** DEVELOPMENT OF BONE **DR TAYYABA** |
| WEDNESDAY 20-03-24 | **BIOCHEM** METABOLISM OF CA+ AND PHOSPHORUS **DR Farhan** | **ISLAMIAT** | **HISTOLOGY** BONE-II **DR INAYAT** | **BIOCHEM** SYNTHESIS OF PARATHYROID & CALCITONIN **DR IFFAT** | **SDL** | | **PHYSIO** ROLE OF PARATHYROID IN BONE GROWTH **DR M.ALI** |
| THURSDAY 21-03-24 | **PHYSIO** ROLE OF CALCITONIN IN BONE GROWTH **DR SABA ABRAR** | **BIOCHEM** SYNTHESIS OF VITAMIN D **DR Farhan** | **PHYSIO** ROLE OF D 3 IN BONE **DR SABA ABRAR** | **SDL** | **COMMUNITY MED** VIT D DEF AND ITS PREVENTION **DR AMMARA / PROFESSOR DR NAZIA JAMEEL** | | **PHYSIO** CALCIUM HOMEOSTASIS **PROFESSOR DR QAMAR AZIZ** |
| FRIDAY 22-03-24 | **PHYSIO** ROLE OF OTHER HORMONES IN BONE GROWTH **DR M.ALI** | **PATHO** CONGENITAL DISORDERS OF BONE AND CARTILAGE **DR NASIMA IQBAL** | **ANATOMY** Development Of Axial & Appendicular skeleton **DR TAYYABA** | **SDL** | **PATHO** METABOLIC BONE DISORDERS **DR NASIMA IQBAL** | | **PHYSIO** REMODELING OF BONE **DR SALEEM** |

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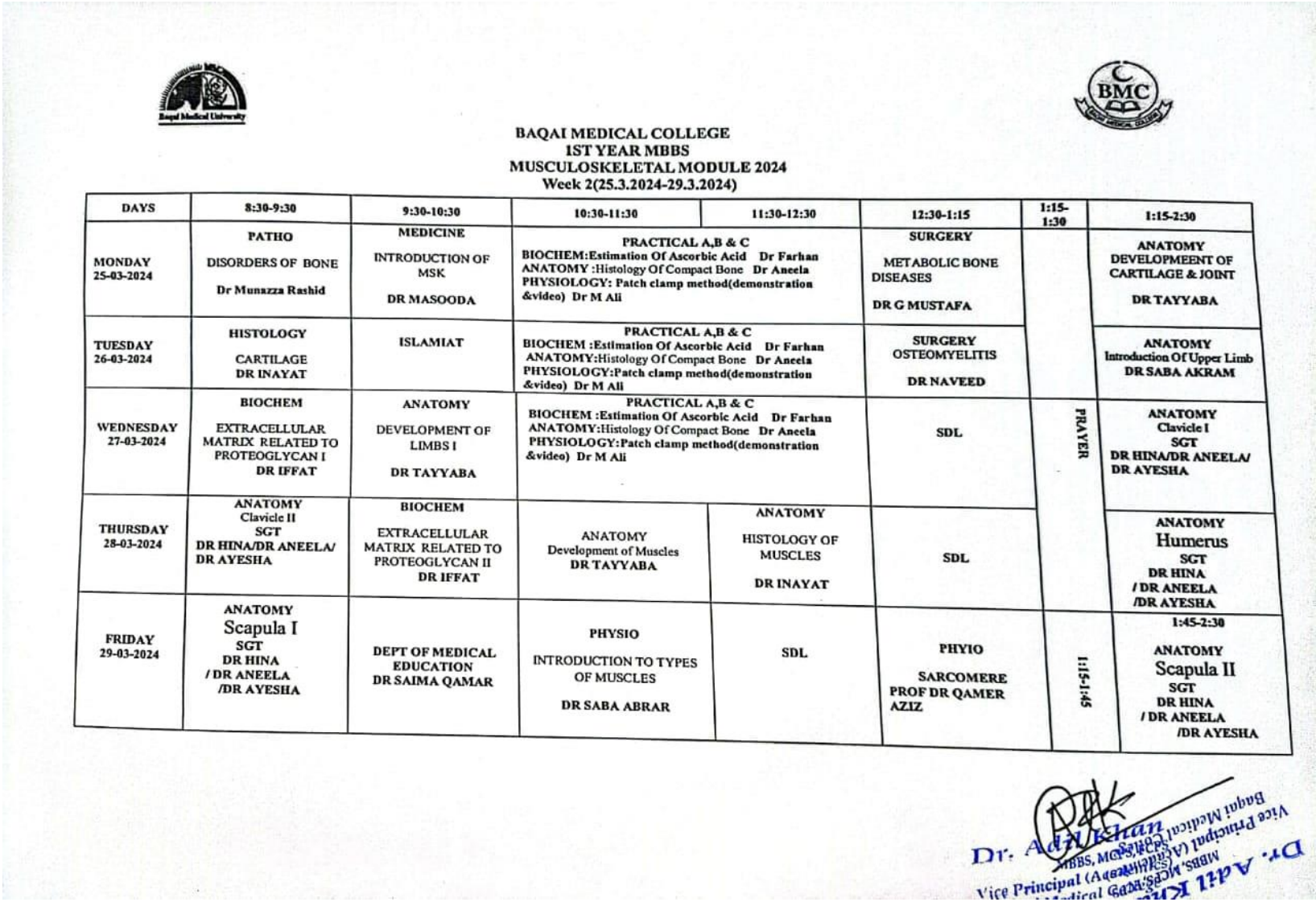

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**Week 2(25.3.2024-29.3.2024)**

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30-11:30 | 11:30-12:30 | 12:30-1:15 | 1:15-1:30 | 1:15-2:30 |
|---|---|---|---|---|---|---|---|
| MONDAY 25-03-2024 | PATHO<br>DISORDERS OF BONE<br>Dr Munazza Rashid | MEDICINE<br>INTRODUCTION OF MSK<br>DR MASOODA | PRACTICAL A,B & C<br>BIOCHEM:Estimation Of Ascorbic Acid Dr Farhan<br>ANATOMY :Histology Of Compact Bone Dr Aneela<br>PHYSIOLOGY: Patch clamp method(demonstration &video) Dr M Ali | | SURGERY<br>METABOLIC BONE DISEASES<br>DR G MUSTAFA | | ANATOMY<br>DEVELOPMEENT OF CARTILAGE & JOINT<br>DR TAYYABA |
| TUESDAY 26-03-2024 | HISTOLOGY<br>CARTILAGE<br>DR INAYAT | ISLAMIAT | PRACTICAL A,B & C<br>BIOCHEM :Estimation Of Ascorbic Acid Dr Farhan<br>ANATOMY:Histology Of Compact Bone Dr Aneela<br>PHYSIOLOGY:Patch clamp method(demonstration &video) Dr M Ali | | SURGERY<br>OSTEOMYELITIS<br>DR NAVEED | | ANATOMY<br>Introduction Of Upper Limb<br>DR SABA AKRAM |
| WEDNESDAY 27-03-2024 | BIOCHEM<br>EXTRACELLULAR MATRIX RELATED TO PROTEOGLYCAN I<br>DR IFFAT | ANATOMY<br>DEVELOPMENT OF LIMBS I<br>DR TAYYABA | PRACTICAL A,B & C<br>BIOCHEM :Estimation Of Ascorbic Acid Dr Farhan<br>ANATOMY:Histology Of Compact Bone Dr Aneela<br>PHYSIOLOGY:Patch clamp method(demonstration &video) Dr M Ali | | SDL | PRAYER | ANATOMY<br>Clavicle I<br>SGT<br>DR HINA/DR ANEELA/ DR AYESHA |
| THURSDAY 28-03-2024 | ANATOMY<br>Clavicle II<br>SGT<br>DR HINA/DR ANEELA/ DR AYESHA | BIOCHEM<br>EXTRACELLULAR MATRIX RELATED TO PROTEOGLYCAN II<br>DR IFFAT | ANATOMY<br>Development of Muscles<br>DR TAYYABA | ANATOMY<br>HISTOLOGY OF MUSCLES<br>DR INAYAT | SDL | | ANATOMY<br>Humerus<br>SGT<br>DR HINA / DR ANEELA /DR AYESHA |
| FRIDAY 29-03-2024 | ANATOMY<br>Scapula I<br>SGT<br>DR HINA / DR ANEELA /DR AYESHA | DEPT OF MEDICAL EDUCATION<br>DR SAIMA QAMAR | PHYSIO<br>INTRODUCTION TO TYPES OF MUSCLES<br>DR SABA ABRAR | SDL | PHYIO<br>SARCOMERE<br>PROF DR QAMER AZIZ | 1:15-1:45 | 1:45-2:30<br>ANATOMY<br>Scapula II<br>SGT<br>DR HINA / DR ANEELA /DR AYESHA |

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**Week 3(1.4.2024-5.4.2024)**

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30-11:30 | 11:30-12:30 | 12:30-1:15 | 1:15-1:30 | 1:15-2:30 |
|---|---|---|---|---|---|---|---|
| MONDAY 1-04-2024 | PHYSIO<br>NEURON<br>DR SABA ABRAR | DEPT OF MEDICAL EDUCATION<br>DR SAIMA QAMAR | PRACTICAL A,B & C<br>BIOCHEM : Detection Of Amino Acid Scheme(Demo) Dr Farhan<br>PHYSIOLOGY: Demonstration Of Emg (Electromyography) Dr M.Ali<br>ANATOMY :Histology Of Spongy Bone Dr Aneela | | SDL | | PHYSIO<br>CLASSIFICATION OF NERVE FIBERS<br>DR M.ALI |
| TUESDAY 2-04-2024 | ANATOMY<br>Pectoral Region<br>DR SABA AKRAM | ISLAMIAT | PRACTICAL A,B & C<br>ANATOMY: Histology Of Spongy Bone :Dr Aneela<br>BIOCHEM :Detection Of Amino Acid Scheme(Demo) Dr Farhan<br>PHYSIOLOGY :Demonstration Of Emg(Electromyography) DR M.ALI | | SDL | | PHYSIO<br>Resting Membrane Potential<br>PROF DR QAMER AZIZ |
| WEDNESDAY 3-04-2024 | BIOCHEM<br>Extracellular Matrix Related To COLLAGEN I<br>DR IFFAT | PHYSIO<br>Action Potential<br>DR SABA ABRAR | PRACTICAL A,B & C<br>PHYSIOLOGY :Demonstration Of Emg(Electromyography) Dr M.Ali<br>ANATOMY : Histology Of Spongy Bone :Dr Aneela<br>BIOCHEM: Detection Of Amino Acid Scheme(Demo)Dr Farhan | | SDL | PRAYER | ANATOMY<br>Pectoral Girdle-Sternoclavicular Joint, Acromioclavicular Joint<br>SGT<br>DR HINA/DR ANEELA/ DR AYESHA |
| THURSDAY 4-04-2024 | BHUTTO SAAHAB DEATH ANNIVERSARY (Tentative - subject to BMU Notification) | | | | | | |
| FRIDAY 5-04-2024 | PHYSIO<br>Propagation Of Action Potential<br>DR M.ALI | BIOCHEM<br>Synthesis Of Acetyl Choline<br>DR IFFAT | RADIOLOGY<br>Shoulder Radiological Anatomy<br>DR ANEEL | PHYSIO<br>Neuromuscular Junction<br>PROF DR QAMER AZIZ | SDL | 1:15-1:45 | 1:45-2:30<br>ANATOMY<br>Scapular Or Shoulder Region<br>SGT<br>DR HINA/DR ANEELA/ DR AYESHA |

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**Week 4 (8.4.2024 - 12.4.2024)**

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30-11:30 | 11:30-12:30 | 12:30-1:15 | 1:15-1:30 | 1:15-2:30 |
|---|---|---|---|---|---|---|---|
| MONDAY 8-04-2024 | PHYSIO<br>Impulse Transmission At Nmj<br>DR SABA ABRAR | PATHO<br>Disorder Of Neuromuscular Junctions<br>DR ROZINA KHAN | ANATOMY<br>AXILLA<br>DR SABA AKRAM | SDL | SURGERY<br>General Principles Of Fracture Management<br>DR NAVEED | | ANATOMY<br>LRC |
| TUESDAY 9-04-2024 | PRACTICAL: Histology Of Spongy Bone GROUP<br>DISCUSSION :Dr Aneela<br>BIOCHEM :Detection Of Amino Acid Scheme GROUP DISCUSSION Dr Farhan<br>PHYSIOLOGY :Demonstration Of Emg(Electromyography) GROUP DISCUSSION DR M.ALI | | PRACTICAL: Histology Of Spongy Bone GROUP<br>DISCUSSION :Dr Aneela<br>BIOCHEM :Detection Of Amino Acid Scheme GROUP DISCUSSION Dr Farhan<br>PHYSIOLOGY :Demonstration Of Emg(Electromyography) GROUP DISCUSSION DR M.ALI | | ANATOMY<br>INTRODUCTION OF BRACHIAL PLEXUS<br>DR INAYAT | | PRACTICAL: Histology Of Spongy Bone GROUP<br>DISCUSSION :Dr Aneela<br>BIOCHEM :Detection Of Amino Acid Scheme GROUP DISCUSSION Dr Farhan<br>PHYSIO :Demonstration Of Emg(Electromyography) GROUP DISCUSSION DR M.ALI |
| WEDNESDAY 10-04-2024 | EID HOLIDAYS | | | | | | |
| THURSDAY 11-04-2024 | EID HOLIDAYS | | | | | | |
| FRIDAY 12-04-2024 | EID HOLIDAYS | | | | | | |

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**Week 5 (15.4.2024 - 19.4.2024)**

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30-11:00 | 11:00-12:00 | 12:00-1:00 | 1:00- 1:30 | 1:30-2:30 | 2:30-4:30 |
|---|---|---|---|---|---|---|---|---|
| MONDAY 15-04-2024 | ANATOMY Brachial Plexus DR SABA AKRAM | BEHAVIOURAL SCIENCES DR AZRA | TEA BREAK | COMMUNITY MEDICINE Musculoskeletal Disorders DR AMMARA | ANATOMY Brachial Plexuses Clinics DR SABA AKRAM | PRAYER /LUNCH BREAK | PHYSIO Types Of Skeletal Muscles DR ADNAN AHMED | PRACTICAL BIOCHEM Detection Of Ninhydrin Test DR FARHAN PHYSIO: Coactivation Of Muscles DR M.ALI HISTOLOGY:Histology Of Muscles DR ANEELA |
| TUESDAY 16-04-2024 | PHYSIO Properties Of Skeletal Muscle PROF .DR QAMER AZIZ | ISLAMIAT | | RESEARCH | SDL | | ANATOMY SGT Arm (Anterior Compartment) DR HINA/DR ANEELA/ DR AYESHA | PRACTICAL BIOCHEM Detection Of Ninhydrin Test DR FARHAN PHYSIO: Coactivation Of Muscles DR M.ALI HISTOLOGY:Histology Of Muscles DR ANEELA |
| WEDNESDAY 17-04-2024 | ANATOMY SGT Arm (Posterior Compartment) DR HINA/DR ANEELA/ DR AYESHA | PHYSIO Skeletal Muscle –I DR M.ALI | | PATHO Disorder Of Skeletal Muscles DR MUHAMMAD KHAN | PHARMA Overview Of Pharmacology Of Skeletal Muscle Relaxants DR HINA /DR SEHRISH | | SDL | PRACTICAL BIOCHEM Detection Of Ninhydrin Test DR FARHAN PHYSIO: Coactivation Of Muscles DR M.ALI HISTOLOGY:Histology Of Muscles DR ANEELA |
| THURSDAY 18-04-2024 | PHYSIO Skeletal Muscle –II DR ADNAN AHMED | SDL | | CBL | | | ANATOMY BACK DR SABA AKRAM | ANATOMY SGT SHOULDER JOINT I DR HINA/DR ANEELA/ DR AYESHA |
| FRIDAY 19-04-2024 | ANATOMY Shoulder Joint II DR SABA AKRAM | ANATOMY SGT Osteology Of Radius I DR HINA/DR ANEELA/ DR AYESHA | | SURGERY Fracture Healing And It's Complications DR GHULAM MUSTUFA | ANATOMY LRC | | SDL | ANATOMY SGT Osteology Of Radius II DR HINA/DR ANEELA/ DR AYESHA |

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### WEEK 6 (22-4-2024—26-4-2024)

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30_ 11:00 | 11:00- 12:00 | 12:00_ 1:00 | 1:00_ 1:30 | 1:30- 2:30 | 2:30 4:30 |
|---|---|---|---|---|---|---|---|---|
| MONDAY 22-4-2024 | PHYSIO Draw a sarcomere. SGT (DR ADNAN/DR M ALI/DR SOBIA) | ANATOMY ELBOW JOINT DR (ANEELA/DR HINA/DR AYESHA) | TEA BREAK | ANATOMY Anastomosis around Elbow joint (DR SABA) | SDL | PRAYER/ LUNCH BREAK | ANATOMY Osteology of radius (DR ANEELA/DR HINA/DR AYESHA) | PRACTICAL HISTOLOGY: Upper limb bones (DR ANEELA) BIOCHEM: Detection of amino acid(Xanthoproteic test) DR FARHAN PHYSIOLOGY: Exercise of latency period DR M ALI |
| TUESDAY 23-4-2024 | ANATOMY Muscle attachment of radius (DR ANEELA/DR HINA/DR AYESHA) | ISLAMIAT | | COMMUNITY MEDICINE Malnutrition in children (DR NAZIA JAMEEL) | SDL | | PATHO Disorders of bone 1 (DR NASIMA IQBAL) | PRACTICAL HISTOLOGY: Upper limb bones( DR ANEELA) BIOCHEM: Detection of aminoacid(Xanthoproteic test) DR FARHAN PHYSIOLOGY: Exercise of latency period (DR M ALI) |
| WEDNESDAY 24-4-2024 | ANATOMY Osteology of ulna (DR ANEELA/DR HINA/DR AYESHA) | HISTOLOGY Skeletal muscles I (DR INAYAT) | | SDL | RADIOLOGY Elbow joint and radius ulna radiological anatomy | | ANATOMY Radioulnar joints (DR ANEELA/DR HINA/DR AYESHA) | PRACTICAL HISTOLOGY: Upper limb bones (DR ANEELA) BIOCHEM: Detection of aminoacid (Xanthroproetic test) DR FARHAN PHYSIOLOGY: Exercise of latency period (DR M ALI) |
| THURSDAY 25-4-2024 | HISTOLOGY Skeletal muscles II (DR INAYAT) | ANATOMY Anterior compartment of forearm (DR SABA) | | ANATOMY Muscle Attachment of ulna (DR ANEELA/DR HINA/DR AYESHA) | ANATOMY Osteology of hand (DR ANEELA/DR HINA/DR AYESHA) | | SDL | ANATOMY Posterior compartment of forearm (DR SABA) |
| FRIDAY 26-4-2024 | ANATOMY Cubital fossa (DR SABA) | MEDICINE Arthritis (DR MASOODA) | | PHYSIO Describe Neuromuscular junction with the help of diagram. SGT (DR ADNAN/DR M ALI/DR SOBIA | SURGERY Septic Arthritis (DR ASAD HANIF) | | SDL | PHYSIO Scenario on local anesthesia SGT (DR ADNAN/DR M ALI/DR SOBIA |

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WEEK 7 (29-4-2024—3-5-2024)

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30_ 11:00 | 11:00- 12:00 | 12:00_ 1:00 | 1:00_ 1:30 | 1:30- 2:30 | 2:30 4:30 |
|---|---|---|---|---|---|---|---|---|
| MONDAY 29-4-2024 | ANATOMY Superior and Inferior radioulnar joint (DR Saba) | ANATOMY Wrist Joint (Dr Aneela, Dr Ayesha & Dr Hina) | TEA BREAK | SURGERY FRACTURES OF UPPER LIMB (DR ASAD HANIF) | ANATOMY Small joints of hands and Spaces of hand (Dr Aneela, Dr Ayesha & Dr Hina) | PRAYER/ LUNCH BREAK | ANATOMY Retinaculum (Dr Inayat) | PRACTICAL HISTOLOGY: Lower bones(DR ANEELA) BIOCHEM: Detection of amino acid(Million and Neese's teat) (DR FARHAN SABIR) PHYSIOLOGY:Demonstration of NCV (Nerve conduction velocity) DR M ALI |
| TUESDAY 30-4-2024 | ANATMY Blood supply of upper limb (Dr Saba) | ISLAMAT | | ANATOMY Superficial veins & Nerve (Dr Inayat) | PATHOLOGY Disorders of joints (DR NASIMA IQBAL) | | ANATOMY Palm of hand (Dr Aneela, Dr Ayesha & Dr Hina) | PRACTICAL HISTOLOGY: Lower limb bones( DR ANEELA) BIOCHEM: Detectiona of amino acid(Millon and Neese's teat) (DR FARHAN SABIR) PHYSIOLOGY:Demonstration of (Nerve conduction velocity) DR M ALI |
| 1ST MAY HOLIDAY | | | | HOLIDAY | | | HOLIDAY | |
| THURSDAY 02-5-2024 | ANATOMY Cutaneous supply of upper limb (Dr Tayyaba) | ANATOMY Introduction to lower limb (DR SABA) | | ANATOMY Osteology of hip bone and attachments (Dr Aneela, Dr Ayesha & Dr Hina) | | | PHARMACOLOGY Overview of pharmacology of skeletal muscle relaxants (DR HINA /DR SEHRISH | PHYSIOLOGY SGT Illustrate and discuss excitation contraction coupling of skeletal muscles. (DR ADNAN AHMED/DR SOBIA BEEL) |
| FRIDAY 03-5-2024 | ANATOMY Osteology of femur and attachments (Dr Aneela, Dr Ayesha & Dr Hina) | | | ANATOMY Hip Joint DR SABA | | | SDL | ANATOMY Osteology of Tiba and attachments (Dr Aneela, Dr Ayesha & Dr Hina) |

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Week 8 (6.5.2024 - 10.5.2024)

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30-11:00 | 11:00-12:00 | 12:00-1:00 | 1:00 - 1:30 | 1:30-2:00 | 2:00-4:00 |
|---|---|---|---|---|---|---|---|---|
| MONDAY 6-05-2024 | BIO Classification Of Amino Acids DR IFFAT | ANATOMY Radiology of Hip joints DR ANEEL | BREAK | ANATOMY FASCIA OF THIGH DR SABA AKRAM | ANATOMY SGT Osteology Of Fibula Dr Hina/Dr Aneela/ Dr Ayesha | PRAYER /LUNCH BREAK | SDL | PRACTICAL BIOCHEM Detection Of sulphur Test DR FARHAN PHYSIO: Exercise On Power Lab DR M.ALI HISTOLOGY: Review of Histology Of Muscles DR ANEELA |
| TUESDAY 7-05-2024 | ANATOMY Muscles of anterior compartment of thigh DR SABA AKRAM | ISLAMIAT | | ANATOMY SGT Attachements of Fibula Dr Hina/Dr Aneela/ Dr Ayesha | SDL | | BIO Biomedical importance of Aminoacids DR IFFAT | PRACTICAL BIOCHEM Detection Of Sulphur Test DR FARHAN PHYSIO: Exercise On Power Lab DR M.ALI HISTOLOGY: Review of Histology Of Muscles DR ANEELA |
| WEDNESDAY 8-05-2024 | PHYSIO Review class of PTH,CALCITONIN AND VIT D3 I DR ADNAN | COMMUNITY MEDICINE MALNUTRITION IN CHILDREN DR AMMARA | | ANATOMY Muscles of medial compartment of thigh DR SABA AKRAM | ANATOMY FEMORAL TRIANGLE DR TAYYABA | | SDL | PRACTICAL BIOCHEM Detection Of sulphur Test DR FARHAN PHYSIO: Exercise On Power Lab DR M.ALI HISTOLOGY: Review of Histology Of Muscles DR ANEELA |
| THURSDAY 9-05-2024 | BIO Classification Of Protein I DR IFFAT | ANATOMY Muscles of posterior compartment of thigh DR SABA AKRAM | | ANATOMY SCIATIC NERVE DR TAYYABA | PHYSIO Review class of PTH,CALCITONIN AND VIT D3 II DR ADNAN | | SDL | ANATOMY SGT KNEE JOINT Dr Hina/Dr Aneela/ Dr Ayesha |
| FRIDAY 10-05-2024 | ANATOMY Popliteal Fossa DR INAYAT | RADIOLOGY radiological findings of Knee joint &tibia fibula DR ANEEL | | SURGERY KNEE OSTEOARTHRITIS DR NAVEED | BIO Classification Of Protein II DR IFFAT | | SDL | ANATOMY SGT SUPERIOR AND INFERIOR TIBIOFIBULAR JOINT Dr Hina/Dr Aneela/ Dr Ayesha |

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Week 9(13.5.2024 - 17.5.2024)

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30-11:00 | 11:00-12:00 | 12:00-1:00 | 1:00-1:30 | 1:30-2:00 | 2:00-4:00 |
|---|---|---|---|---|---|---|---|---|
| MONDAY 13-05-2024 | BIO<br>Classification Of Protein III<br>DR IFFAT | ANATOMY<br>Muscles of Anterior & Lateral Compartment Of Leg<br>DR SABA AKRAM | BREAK | ANATOMY<br>Formative Assessment<br>Dr Hina/Dr Aneela/ Dr Ayesha | ANATOMY<br>Muscles of Posterior Compartment Of Leg<br>DR SABA AKRAM | PRAYER /LUNCH BREAK | SDL | PRACTICAL<br>BIOCHEM review Aminoacid Test DR FARHAN<br>PHYSIO: Exercise On Power Lab DR M.ALI<br>HISTOLOGY: review of Histology Of BONE DR ANEELA |
| TUESDAY 14-05-2024 | ANATOMY<br>SGT<br>Osteology of foot<br>Dr Hina/Dr Aneela/ Dr Ayesha | ISLAMIAT | | ANATOMY<br>SGT<br>Attachments Of Foot<br>Dr Hina/Dr Aneela/ Dr Ayesha | BIO<br>Review class of calcium homeostasis<br>DR FARHAN | | SDL | PRACTICAL<br>BIOCHEM revision Aminoacid test DR FARHAN<br>PHYSIO: Exercise On Power Lab DR M.ALI<br>HISTOLOGY: review of Histology Of BONE DR ANEELA |
| WEDNESDAY 15-05-2024 | ANATOMY<br>SGT<br>Ankle joint I<br>Dr Hina/Dr Aneela/ Dr Ayesha | SDL | | CBL | | | ANATOMY<br>SGT<br>Ankle joint II<br>Dr Hina/Dr Aneela/ Dr Ayesha | PRACTICAL<br>BIOCHEM revision Aminoacid Test DR FARHAN<br>PHYSIO: Exercise On Power Lab DR M.ALI<br>HISTOLOGY: review of Histology Of BONE DR ANEELA |
| THURSDAY 16-05-2024 | PHYSIO<br>Review neurons ,nerve fibers & action potential I<br>DR M.ALI | RADIOLOGY<br>Ankle joint & foot radiology<br>DR ANEEL | | ANATOMY<br>LRC<br>Dr Hina/Dr Aneela/ Dr Ayesha | SDL | | ANATOMY<br>Retinaculum<br>DR SABA AKRAM | PHYSIO<br>Formative Assessment<br>DR M.ALI |
| FRIDAY 17-05-2024 | ANATOMY<br>SGT<br>Review of upper limb<br>Dr Hina/Dr Aneela/ Dr Ayesha | ANATOMY<br>Arches of foot<br>DR INAYAT | | BIO<br>Formative Assessment<br>DR IFFAT | PHYSIO<br>Review neurons ,nerve fibers & action potential II<br>DR M.ALI | | SDL | ANATOMY<br>SGT<br>Small joints of foot<br>Dr Hina/Dr Aneela/ Dr Ayesha |

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Week 10 (20.5.2024 - 24.5.2024)

| DAYS | 8:30-9:30 | 9:30-10:30 | 10:30 - 11:00 | 11:00-12:00 | 12:00-1:00 | 1:00-1:30 | 1:30-2:00 | 2:00-4:00 |
|---|---|---|---|---|---|---|---|---|
| MONDAY 20-05-2024 | PHYSIO Review skeletal muscles PROF.DR QAMER AZIZ | ANATOMY Dorsum of foot DR SABA AKRAM | BREAK | TENTATIVE RANG WEEK | | PRAYER /LUNCH BREAK | TENTATIVE RANG WEEK | |
| TUESDAY 21-05-2024 | ANATOMY Sole of foot DR SABA AKRAM | ISLAMIAT | | TENTATIVE RANG WEEK | | | TENTATIVE RANG WEEK | |
| WEDNESDAY 22-05-2024 | PHYSIO Formative Assessment DR ADNAN | ANATOMY Blood supply of Lower Limb DR INAYAT | | TENTATIVE RANG WEEK | | | TENTATIVE RANG WEEK | |
| THURSDAY 23-05-2024 | ANATOMY Nerve supply of Lower Limb DR TAYYABA | ANATOMY Formative Assessment Dr Hina/Dr Aneela/ Dr Ayesha | | TENTATIVE RANG WEEK | | | TENTATIVE RANG WEEK | |
| FRIDAY 24-05-2024 | BIO Review class DR IFFAT | PHYSIO Review class DR M.ALI | | TENTATIVE RANG WEEK | | | TENTATIVE RANG WEEK | |
| MONDAY 27-05-2024 | MSK MODULE EXAM Msk Modul Exa | | | MSK MODULE EXAM Msk Modul Exa | | — | MSK MODULE EXAM Msk Modul Exa | |

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## REFERENCE BOOKS AND OTHER READING RESOURCES:

| | |
|---|---|
| Gross Anatomy | BD Chaurasia's **Handbook of GENERAL ANATOMY**<br>**Netter Atlaso fHuman Anatomy** |
| Embryology | **Langman's Embryology** |
| | |
| Histology | **Laiq Hussain Histology** |
| Physiology | **Guyton and Hall**. Textbook of Medical Physiology, 13th Edition.<br>**Ganong's** Review of Medical Physiology, 24th Edition. |
| Pathology | Robin`sBasicPathology-10thEdition |
| Pharmacology | **Essential**<br>- **Bertram G. Katzung.** Basic and Clinical Pharmacology, 14th Edition. 2017.<br>- **Katzung and Trevor's pharmacology** Examination and Board Review 11th Edition 2015.<br>**Recommended**<br>- **Lippincott's illustrated review of Pharmacology**. 6th Edition. 2015. |
| Islamiat | - Hameed ullah Muhammad, "Emergence of Islam" , IRI, Islamabad, "Muslim Conduct of State" and "Introduction to Islam".<br>- Hussain Hamid Hassan, "An Introduction to the Study of Islamic Law" leaf Publication Islamabad, Pakistan.<br>- Abdul QayyumNatiq, "Sirat-E-Mustaqim.<br>- Farkhanda Noor Muhammad, "Islamiat".<br>- Dr. Muhammad Zia-ul-Haq, "Introduction to Al Sharia Al Islamia" Allama Iqbal Open University, Islamabad (2001). |
| Community Medicine | Ilyas M, Public Health and Community Medicine, 7th Edition, Karachi, Pakistan, Time Publisher, 2007. |

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| | |
|---|---|
| | Maxcy-Rosenau-Last, public Health and Preventive Medicine, 13th Edition, USA, Prentice-Hall International Inc, 1992.<br><br>K.Park, Preventive and Social Medicine, 20th Edition, Jabalpur (India), M/s BanarsidasBhanot, Publisher, 2009. |
| Medicine | Davidson`s Principles and Practice of Medicine-22nd Edition |
| Clinical Examination | Talley and O'Connor's Clinical Examination-6th Edition |
| Surgery | Bailey And Love Short Practice Of Surgery, 27th Edition<br><br>Last's anatomy 12th edition<br><br>Snell's anatomy by regions 10thedition |
| Research | Introduction to Research in Health Sciences- Stephen Polgar, Shane A. Thomas.<br>Biomedical Research Proposal Writing- Syed Sharaf Ali Shah, Zarfshan Tahir, Rozina Karmaliani.<br>Epidemiology - Leon Gordis; Fifth Edition. |
| PEARLs | https://www.mededportal.org/publication/10610/ |
| PAEDS | Nelson Textbook of Pediatric 21st edition.<br><br>Textbook of Paediatrics (PPA) Fifth edition.<br>Basis of Pediatrics (Pervez Akbar Khan) 10th edition |

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## ASSESSMENT METHODS:

**THEORY:**

❖ **EssayQuestions- Short Essay Questions (SEQs)** are used to assess objectives covered in each module.

- 6 SEQs are given (no choice).
- Time duration 90 minutes.
- Students write the answer in the provided answer sheet.

❖ **ONE Best Choice Multiple Choice Questions (MCQs)** are used to assess objectives covered in each module.

- A BCQ has a statement or clinical scenario followed by four options (likely answer).
- Students after reading the statement/scenario select ONE, the most appropriate response from the given list of options.
- Correct answer carries one mark, and incorrect 'zero mark'. There is no negative marking.
- Students mark their responses on specified computer-based/OMR sheet designed for BMC, BMU.

❖**OSPE/OSCE: Objective Structured Practical/Clinical Examination:**

- Each student will be assessed on the same content and have same time to complete the task.
- Comprise of 05 stations.

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- Each station may assess a variety of clinical tasks; these tasks may include history taking, physical examination, skills and application of skills and knowledge.
- Stations are observed, unobserved, interactive and rest stations.
- Observed and interactive stations will be assessed by internal or external examiners.
- Unobserved will be static stations in which there may be an X-ray, Labs reports, pictures, clinical scenarios with related questions for students to answer.
- Rest station is a station where there is no task given and in this time student can organize his/her thoughts.

**INTERNAL EVALUATION:**

- Students will be assessed to determine achievement of module objectives through the following: o **Module Examination:** will be scheduled on completion of each module. The method of examination comprises theory exam which includes BCQs and OSPE (Objective Structured Practical Examination).

- **Graded Assessment of students by Individual Department**: Quiz, viva, practical, assignment, small group activities such as CBL, online assessment, ward activities, examination, and Practical journals.
- Marks of both modular examination and graded assessment will constitute 20% weightage which will be added to Annual Examination.

**FORMATIVE ASSESSMENT:**

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

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