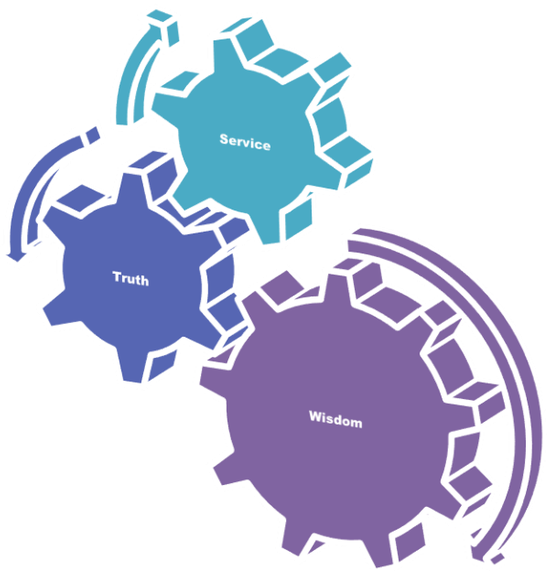
Rawalpindi Medical University
Implementation Plan
Clinically Oriented Integrated Modular Curriculum 2024
First Year MBBS

Dedicated to Hazrat Muhammad (S.A.W)

University Moto, Vision, Values & Goals

RMU Motto



Vision and Values

Highly recognized and accredited center of excellence in Medical Education, using evidence-based training techniques for development of highly competent health professionals, who are critical thinkers, experiential self-directed lifelong learners and are socially accountable

Mission Statement

To impart evidence-based research-oriented health professional education in order to provide best possible patient care and inculcate the values of mutual respect, ethical practice of healthcare and social accountability.

Goals of the Undergraduate Integrated Modular Curriculum

The Undergraduate Integrated Learning Program is geared to provide you with quality medical education in an environment designed to:

- Provide thorough grounding in the basic theoretical concepts underpinning the practice of medicine.
- Develop and polish the skills required for providing medical services at all levels of the Health care delivery system.
- Help you attain and maintain the highest possible levels of ethical and professional conduct in your future life.
- Kindle a spirit of inquiry and acquisition of knowledge to help you attain personal and professional growth & excellence.

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SECTION-I

Introduction

Preamble

In commitment to enhancing medical education, Rawalpindi Medical University Implements an integrated curriculum for first-year MBBS students, designed to transform and enrich their learning experience. This innovative curriculum will seamlessly integrate foundational subjects—Anatomy, Physiology, and Biochemistry—with clinical practice, providing a more holistic understanding of medicine from the outset. By structuring the curriculum around thematic modules that reflect the interconnected nature of bodily systems and clinical conditions, we aim to create a cohesive educational journey. This approach will enable students to see the practical relevance of their theoretical studies through case-based learning, where real-world clinical cases are used to explore and apply core scientific principles. The curriculum will emphasize active learning strategies, including collaborative problem-solving, hands-on practical experiences, and regular assessments with constructive feedback, to ensure deep engagement and continuous improvement. Interdisciplinary collaboration among faculty will further enrich the learning experience, offering diverse perspectives and a unified approach to medical education. Through this integrated curriculum, we aspire to produce well-rounded medical professionals who are adept at linking theory to practice and are prepared to tackle the complexities of modern healthcare with competence and confidence

SECTION-II

Structured Framework of Clinically Oriented Integrated Modular Curriculum 2024

Structured Framework of Clinically Oriented Integrated Modular Curriculum 2024

Sr. No	Class	Module	Duration	Block
1.	First Year MBBS	Foundation Module	6 weeks	Block-I
		MSK-I Module	5 weeks	
		MSK-II Module	5 weeks	Block -II
		Blood & immunity Module	5 weeks	
		CVS Module	6 weeks	Block -III
		Respiration Module	5 weeks	
		General Education Cluster Module	1 week	
2.	Second Year MBBS	Gastrointestinal tract Module	5 weeks	Block-I
		Renal module	5 weeks	
		Reproduction Module	4 weeks	Block -II
		Central nervous system module	6 weeks	
		Special Senses Module	4 weeks	Block -III
		Endocrinology Module	5 weeks	
3.	Third Year MBBS	Foundation 1	4 weeks	Block-I
		Foundation II	4 weeks	
		GIT, Hepatobiliary & Parasitology	5 weeks	Block -II
		Microbes & Antimicrobials	7 weeks	
		Hematology, Immunology & Research	5 weeks	Block -III
		CVS & Respiration	5 weeks	
4.	Fourth Year MBBS	Otorhinolaryngology 1	2.5 weeks	Block-I
		Otorhinolaryngology II	3 weeks	
		Ophthalmology I	2.5 weeks	Block -II
		Ophthalmology II	3 weeks	
		Endocrinology	5 weeks	Block -III
		Population Health & Reproduction	6 weeks	
		Renal	4 weeks	Block -IV
		CNS & Psychiatry	6 weeks	
5.	Final Year MBBS	Medicine & Allied	12 weeks	Block-I
		Surgery & Allied	12 weeks	Block-II
		Gynae & Peads	12 weeks	Block-III

First Year Academic Calendar 2024

Blocks	Block-I									Block II						Block III					General Education Cluster (GEC) Module	Schedule of Send Up and Professional Examination			
Module	Foundation Module	Module Assessment	MSK-I (04 Weeks)							MSK - II	Summer Vacation	Module Assessments	Blood & Immunity Module			CVS	Module Assessment	Respiratory Module	Module Assessment	Block Assessment		Prep leaves for send up	Send up	Prep Leaves for Professional Examination	Professional Examination
			MSK-I	Spring Vacation	MSK-I	Student Week	MSK-I	Module Assessment	Block Assessment				Blood & Immunity Module	Module Assessment	Block Assessment										
Duration in Weeks / Days	06 Weeks	03 Days	First Week	08 Days	First & Second Week	06 Days	Third- & Fourth Weeks	06 Days	03 Days	04 Weeks	17th June – 20th July 2024	06 Days	04 Weeks	06 Days	03 Days	05 Weeks	06 Days	04 Weeks	06 Days	03 Days	06 Day	10 Days	13 Days	15 Days	20 Days
Dates	12th -Feb – 22nd March 2024	25th March – 27th March, 2024	1st April – 24th April 2024	05th April – 13th April 2024	25th April – 27th April 2024	29th April – 04th May 2024	05th May – 15th May 2024	16th May – 22nd May 2024	23rd May – 25th May 2024	27th May – 27th July 2024		29th July – 03rd August 2024	05th August – 31st August 2024	02nd Sep – 07th Sep 2024	09th Sep – 11th Sep 2024	12th Sep – 10th Oct 2024	12th Oct – 18th Oct 2024	21st Oct – 16th Nov 2024	18th Oct – 23rd Nov 2024	25th Nov – 27th Nov 2024	28th Nov – 04 Dec 2024	05th Dec – 14th Dec 2024	15th Dec – 27th Dec 2024	28th Dec 2024 – 11th Jan 2025	12th Jan 2024 –31st Jan 2025

*Note: All dates are subject to change.

Contact Hour Distribution for Core Subjects

First Year MBBS

Teaching Hours 1st Year MBBS							
Blocks	**Modules**	**Anatomy**	**Physiology**	**Biochemistry**	**Total**	**Total Hours**	**Percentage**
Block-I	Foundation	86	111	56	253	469	39
	MSK-I	89	97	30	216		
Block-II	MSK-II	132	86	44	262	332	27
	Blood & Immunity	8	32	30	70		
Block-III	CVS	70	98	84	252	409	34
	Respiration	76	50	31	157		
Total Hours Per Subject		461	474	275	1210		100
Percentage		38	39	23	100		

Discipline Wise Clinical Teaching Hours for First Year MBBS

Sr. No	**Discipline**	**Contact Hours**
1.	Behavioral sciences	05
2.	Community Medicine	09
3.	Pathology	13
4.	Pharmacology	08
5.	Medicine	13
6.	ENT	01
7.	DME	10
8.	Radiology	03
9.	Artificial Intelligence	01
10.	Family Medicine	03
11.	Gynae & Obs	01
12.	Quran translation	13
13.	Surgery	03
14.	Biomedical Ethics	05
15.	IUGRC	15
Total Hours		**103 Hours**

SECTION-III

Teaching and Learning Methodologies / Strategies

Teaching and Learning Methodologies / Strategies

Large Group Interactive Session (LGIS)

The large group interactive session is structured format of Prof Umar Model of Integrated lecture. It will the followed for delivery of all LGIS. The lecturer will introduce a topic or common clinical condition and explains the underlying phenomena through questions, pictures, videos of patients, interviews, and exercises, etc. Students are actively involved in the learning process.

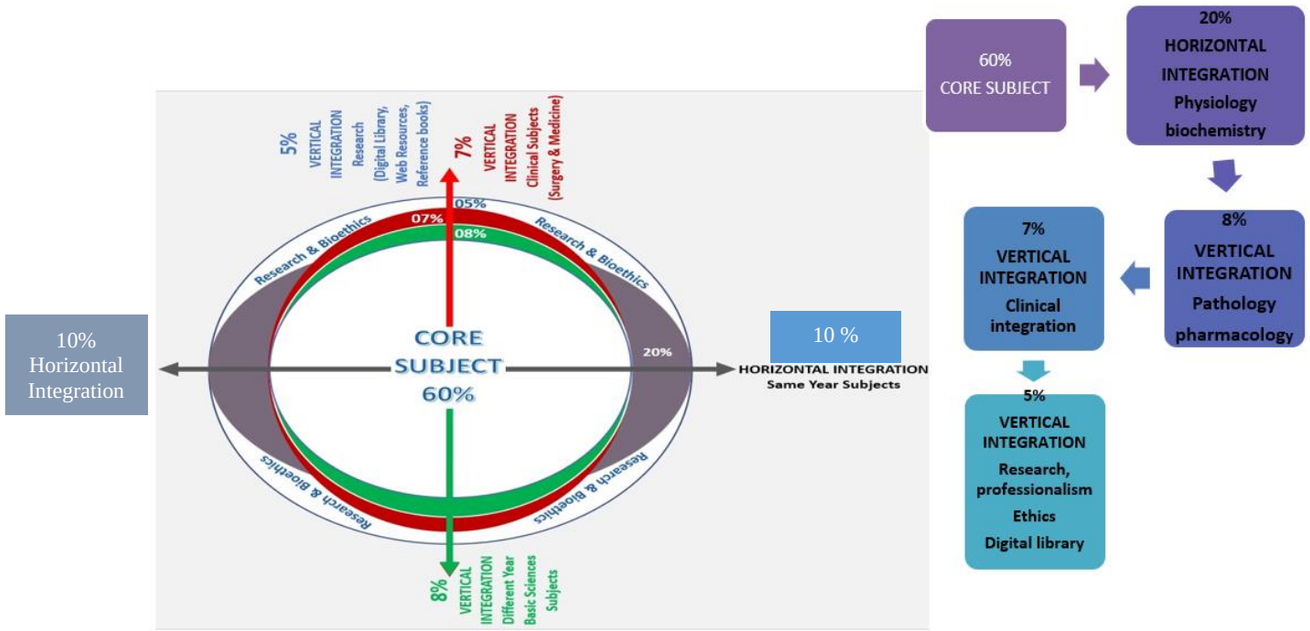


Figure 1. Prof Umar's Model of Integrated Lecture

Small Group Discussion (SGD)

This format helps students to clarify concepts acquire skills and attitudes. Sessions are structured with the help of specific exercises such as patient case, interviews or discussion topics or power point presentations. Students exchange opinions and apply knowledge gained from lectures, SGDs and self study. The facilitator role is to ask probing questions, summarize and help to clarify the concepts.

Table 2. Standardization of teaching content in Small Group Discussions

S. No	Topics	Approximate %
1	Title Of SGD	
2	Learning Objectives from Study Guides	
3	Horizontal Integration	5%+5%=10%
4	Core Concepts of the topic	60%
5	Vertical Integration	20%
6	Related Advance Research points	3%
7	Related Ethical points	2%

Table 3. Steps of Implementation of Small Group Discussions

Step 1	Sharing of Learning objectives by using students Study guides	First 5 minutes
Step 2	Asking students pre-planned questions from previous teaching session to develop co-relation (these questions will be standardized)	5minutes
Step 3	Students divided into groups of three and allocation of learning objectives	5minutes
Step 4	ACTIVITY: Students will discuss the learning objectives among themselves	15 minutes
Step 5	Each group of students will present its learning objectives	20 min
Step 6	Discussion of learning content in the main group	30min
Step 7	Clarification of concept by the facilitator by asking structured questions from learning content	15 min
Step 8	Questions on core concepts	
Step 9	Questions on horizontal integration	
Step 10	Questions on vertical integration	
Step 11	Questions on related research article	
Step 12	Questions on related ethics content	
Step 13	Students Assessment on online MS teams (5 MCQs)	5 min
Step 14	Summarization of main points by the facilitator	5 min
Step 15	Students feedback on the SGD and entry into log book	5 min
Step 16	Ending remarks	

Self-Directed Learning (SDL)

- Self- directed learning is a process where students take primary charge of planning, continuing, and evaluating their learning experiences.
- Time Home assignment
- Learning objectives will be defined
- Learning resources will be given to students = Textbook (page no), web site
- Assessment:

  i Will be online on LMS (Mid module/ end of Module)

  ii.OSPE station

Case Based Learning (CBL)

- It's a learner centered model which engages students in discussion of specific scenarios that typically resemble real world examples.
- Case scenario will be given to the students
- Will engage students in discussion of specific scenarios that resemble or typically are real-world examples.
- Learning objectives will be given to the students and will be based on
  i. To provide students with a relevant opportunity to see theory in practice
  ii. Require students to analyze data in order to reach a conclusion.
  iii. Develop analytic, communicative, and collaborative skills along with content knowledge.

Problem Based Learning (PBL)

- Problem-based learning (PBL) is a student-centered approach in which students learn about a subject by working in groups to solve an open-ended problem.
- This problem is what drives the motivation and the learning.

The 7- Jump-Format of PBL (Maastricht Medical School)	
Step 7	Synthesize & Report
Step 6	Collect Information from outside
Step 5	Generate learning Issues
Step 4	Discuss and Organize Ideas
Step 3	Brainstorming to Identify Explanations
Step 2	Define the Problem
Step 1	Clarify the Terms and Concepts of the Problem Scenario
Problem- Scenario	

Figure 2. PBL 7 Jumps Model

Practical Sessions/Skill Lab (SKL)

Practical Session/ Skill Lab (SKL)	
Demonstration/ power point presentation 4-5 slide	10-15 minutes
Practical work	25-30 minutes
Write/ draw and get it checked by teacher	20-25 minutes
05 mcqs at the end of the practical	10 minutes
At the end of module practical copy will be signed by head of department	
At the end of block the practical copy will be signed by Head of Department Dean Medical education department QEC	

SECTION-IV

Clinically Oriented Integrated Modular Curriculum

BLOCK-I

(Foundation Module + Musculoskeletal-I Module)

Integrated Spiral Clinically Oriented Modular Curriculum for First Year MBBS

Foundation Module Time Table

First Year MBBS

Session 2023-2024

Batch- 51

Foundation Module Team

Module Name	:	Foundation Module
Duration of module	:	06 Weeks
Coordinator	:	Dr. Zenera Saqib
Co-coordinator	:	Dr. Qurat Ul Ain
Reviewed by	:	Module Committee

Module Committee		
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar
2.	Director DME	Prof. Dr. Rai Muhammad Asghar
3.	Convener Curriculum	Prof. Dr. Naeem Akhter
4.	Chairperson Anatomy & Dean Basic Sciences	Prof. Dr. Ayesha Yousaf
5.	Additional Director DME	Prof. Dr. Ifra Saeed
6.	Chairperson Physiology	Prof. Dr. Samia Sarwar
7.	Chairperson Biochemistry	Dr. Aneela Jamil
8.	Focal Person Anatomy First Year MBBS	Asso. Prof. Dr. Mohtashim Hina
9.	Focal Person Physiology	Dr. Sidra Hamid
10.	Focal Person Biochemistry	Dr. Aneela Jamil
11.	Focal Person Pharmacology	Dr. Zunera Hakim
12.	Focal Person Pathology	Dr. Asiya Niazi
13.	Focal Person Behavioral Sciences	Dr. Saadia Yasir
14.	Focal Person Community Medicine	Dr. Afifa Kulsoom
15.	Focal Person Quran Translation Lectures	Dr. Uzma Zafar
16.	Focal Person Family Medicine	Dr. Sadia Khan

Module Task Force Team		
1.	Coordinator	Dr. Zenera Saqib (Demonstrator of Anatomy)
2.	DME Focal Person	Dr. Sidra Hamid
3.	Co-coordinator	Dr. Qurat Ul Ain (Senior Demonstrator of Anatomy)
4.	Co-Coordinator	Dr. Uzma Kiyani (Senior Demonstrator of Physiology)
5.	Co-coordinator	Dr. Nayab Ramzan (Senior Demonstrator of Biochemistry)

DME Implementation Team		
1.	Director DME	Prof. Dr. Rai Muhammad Asghar
2.	Implementation Incharge 1st & 2nd Year MBBS & Add. Director DME	Prof. Dr. Ifra Saeed
3.	Assitant Director DME	Dr. Sidra Hamid
4.	Editor	Muhammad Arslan Aslam

Discipline wise Details of Modular Content

Block	Module	General Anatomy	Embryology	Histology	Gross Anatomy
I	• Anatomy	Introduction to General Anatomy	General Embryology • Introduction to Human Development • Oogenesis • Spermatogenesis • Female Reproductive Cycles • Ovulation and Fertilization • Cleavage and Blastocyst Formation • Development of Mammary Gland	General Histology • Types of Epithelium • Specialization of Apical Cell Surface • Intercellular Junctions and Adhesions • Glandular Epithelium • Mammary Gland	• Anatomicomedical Terminologies I (position & planes) • Anatomicomedical Terminologies II (Anatomical Terms and Axis of Movements) • Anatomicomedical Terminologies III (Cell and Tissues) • Anatomicomedical Terminologies IV (Skin & Body Systems) • Clavicle • Scapula • Humerus • Anterior Axioappendicular Muscles • Posterior Axioappendicular Muscles • Axilla • Brachial Plexus • Brachial Plexus Injuries • Breast • Sternoclavicular and Acromiclavicular Joints • Radiograph and Surface Anatomy of Axioappendicular Region
	• Biochemistry	• Cell and Cell Organelles, Cell Membrane and Transport Across Cell Membrane, Physicochemical Properties, Enzymes, Cancer, Nucleic Acid Chemistry, Genetics			
	• Physiology	• Functional Organization of The Human Body and Control of the “Internal Environment • The Cell and Its Functions • Genetic Control of Protein Synthesis, Cell Function, And Cell Reproduction • Transport of Substances Through the Cell Membrane			
	Orientation Sessions				

	• Opening Ceremony (DME) • Introduction to Digital Services Of RMU • Introduction to Integrated Modular Curriculum, Study Guide sand RMU Policies • Assessment Model of RMU & Continuous Internal Assessment • Research Model of RMU (IUGRC), Biomedical Ethics Family Medicine, Artificial Intelligence • Introduction to Different Teaching Strategies, Role of Team Leader Facilitator and Students SGD/LGIS/TBL/PAL/INTERNET & Literature Group activity (DME) • Orientation to Integrated Modular System for Pre-clinical Years (DME) • Lecture on Feedback (DME) • Mission and Vision (DME) • Introduction to Pharmacology • Introduction to Pathology • Introduction to Community Medicine (Community Medicine) • Introduction to Medicine (Medicine)
	Spiral Courses
• The Holy Quran Translation	The Holy Quran Translation Component • Islam And Medical Science • Introduction to Quran Translation
• Bioethics & Professionalism	• Introduction to history of medical ethics • Leadership Professionalism (DME)
• Artificial Intelligence	• Introduction to Artificial Intelligence
• Family Medicine	• Introduction to Family Medicine & its application in health care system
• Integrated Under Graduate Research Innovation (IUGRC)	• Research I Introduction of health research process • Research II characteristic of reserch process • Research III Basis of ethics in health research • Research IV Basics of ethics in medical reserch
• Behavioral Sciences	• Introduction to Behavioral Sciences • Management of stress
• Digital Literacy Module	• How to use Higher Education Commission (HEC) digital libaray.
	Vertical Integration
	Clinically content relevant to Foundation module

	• Routs of drug administration (Pharmacology) • Absorption of drugs (Pharmacology) • Factors affecting drug absorption (Pharmacology) • Distribution of drugs (Pharmacology) • Cellular response to injury (Pathology) • Intracellular accumulations (Pathology) • Pigments (Pathology) • Free radical and reactive oxygen species (Pathology) • Irreversible cell injury/apoptosis (Pathology) • Genetic disorders (Pathology) • History of medicine (Medicine) • Medicine and allied subjects (Medicine) • Chromosomal abressions (Medicine) • History taking and general physical examination (Medicine)	
Early Clinical Exposure (ECE)		
	• Clinical Rotations	Rotation of students to • Medicine & Allied • Surgery and Trauma • Emergency Department
Hands on Workshop on Basic Life Support (BLS)		
	• Hands on Workshops on BLS	

Categorization of Modular Content of Anatomy:

Category A*	Category B**		Category C ***			
General Embryology	**General Histology**	**General Anatomy**	**Demonstrations / SGD**	**CBL**	**Practical's**	**Self-Directed Learning (SDL)**
Introduction to human development Oogenesis Spermatogenesis Female reproductive cycles Ovulation and fertilization Cleavage and blastocyst formation Development of mammary gland	Types of epithelium Specialization of apical cell surface Intercellular junction and adhesions Glandular epithelium Mammary gland	Introduction to General Anatomy	Anatomicomedical terminologies I (planes & positon) Anatomicomedical terminologies II (Anatomical terms and axis of movements) Anatomicomedical terminologies III (Cell and tissues) Anatomicomedical terminologies IV (Skin & Body system) Clavicle Scapula Humerus Anterior Axioappendicular muscles Posterior Axioappendicular muscles Axilla Brachial plexus & injuries Breast Sternoclavicular and acromioclavicular joints Radiograph and surface anatomy of axioappendicular region	Clavicle Brachial plexus injuries	Introduction to microscope, Slide preparation, artifact Simple epithelium, Stratified epithelium Mammary gland	Clavicle Scapula Anterioraxioappendicular muscles Posterior Axioappendicular muscles Axilla Brachial plexus Injuries of brachial plexus Breast

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Anatomy

Sr. #	Designation of Teaching Staff / Human Resource	Total Number Of Teaching Staff
1.	Professor of Anatomy department	01
2.	Associate professor of Anatomy department	01
3.	Assistant professor of Anatomy department (AP)	01
4.	Demonstrators of Anatomy department	05

Contact Hours (Faculty)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	12 * 2= 24 hours
2.	Small Group Discussions (SGD)	2*14+ 1*2=30 hours
3.	Case Based Learning (CBL)	2* 2 = 4 hours
4.	Practical / Skill Lab	1.6 * 20 = 32 hours

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	12 hours
2.	Small Group Discussions (SGD)	30hours
	Case Based Learning (CBL)	4 hours
4.	Practical / Skill Lab	6.4 hours
5.	Self-Directed Learning (SDL)	8 hours

Categorization of Modular Content of Physiology:

Category A*	**Category B****	**Category C*****				
LGIS	LGIS	PBL	CBL	Practical's	SGD	SDL
Introduction To Physiology Department (By Prof Dr. Samia Sarwar)	Concept of body fluids & internal environment (By Dr. Sidra Hamid)		Body Fluid Compartment, Cell Membrane and Cytoskeleton, Down's Syndrome	Introduction to Microscope Introduction to Wintrobe and Westergen tube Apparatus identification (Introduction to Neubauer's chamber, Red Blood Cell (RBC) pipettes& White Blood Cell (WBC) pipette 4. Apparatus identification (Introduction to centrifuge machine)	Functional Organization of Human Body and Cell Physiology Cellular Control Mechanism, Cell Cycle and programmed cell death / apoptosis	Concept of body fluids & internal environment Genetics, Transcription and Translation Receptor and signal transduction Structure of Nucleus, Ribosomes and Cell Division Cellular Control Mechanism, Cell Cycle and programmed cell death / apoptosis
Homeostasis Control System-I (Negative Feedback System, Concept Of Error And Gain) (By Prof Dr. Samia Sarwar)	Intracellular communication and cell junction (By Dr. Sidra Hamid)					
Homeostasis Control System-II (positive feedback, and concept of feed forward, adaptive control and vicious cycle) (By Prof Dr. Samia Sarwar)	Receptor and signal transduction (By Dr. Sidra Hamid)					
Structure of Nucleus, Ribosomes and Cell Division (By Prof Dr. Samia Sarwar)	Active Transport- Ii (Secondary Active Transport) (Dr. Sheena Tariq)					
Cell membrane & classification of cell organelles (by Dr. Faizania)						
Cell organelles & related cell function – I (by Dr. Faizania)						

Cell organelles & related cell function – II (by Dr. Faizania)						
Genetics, Transcription and Translation (by Dr. Faizania)						
Active Transport- I (Primary Active Transport) (by Dr. Faizania)						

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Physiology

Sr. #	Designation Of Teaching Staff / Human Resource	Total Number of Teaching Staff
1.	Professor of physiology department	01
2.	Associate professor of physiology department	01
3.	Assistant professor of physiology department (AP)	01
4.	Demonstrators of physiology department	07
5.	Residents of physiology department (PGTs)	06

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LECTURES)	2* 18 =36 hours
2.	Small Group Discussions (SGD)/CBL	1hr 40 mint* 20= 33 hrs.& 20 mint + 1hr=34hrs & 20 minutes
3.	Problem Based Learning (PBL)	---
4.	Practical / Skill Lab	1hour 40 minutes* 20= 33 hours and 20 minutes
5.	Self-Directed Learning (SDL)	1hour * 8=8 hours

Categorization of Modular Content of Department of Biochemistry:

Category A*	Category B**	Category C***			
LGIS	**LGIS**	**PBL**	**CBL**	**Practical's**	**SGD**
Cell membrane	Cell & cell organelles		Enzymes PCR (Polymerase Chain Reaction)	Introduction to glassware (pipetting)	Cell & Cell Membrane
Transport across cell membrane	Physicochemical aspects			Introduction to Lab Equipment	Physicochemical Aspects of cell
	Water & PH			Surface Tension Emulsion	
Nucleic acid Chemistry	Cancer			Adsorption Tonicity	
Replication	Enzymes				
Transcription					
Translation					
Mutation					
Recombinant DNA/ PCR					

Category A*: By Assistant Professor & Senior Demonstrators with Postgraduate Qualification

Category B:** By Senior Demonstrators

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Biochemistry

Sr. #	Designation Of Teaching Staff / Human Resource	Total Number Of Teaching Staff
1	Assistant professor of biochemistry department (AP)	01
2	Demonstrators of biochemistry department	06

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (student)
1.	Large Group Interactive Session (LECTURES)	2 * 11 = 22 +1 =23 hours	12
2.	Small Group Discussions (SGD)	6 * 5 = 30 hours	1.5 x 4 = 6
3.	Problem Based Learning (PBL)	2 * 1 = 2 hours	02
4.	Practical / Skill Lab	6 * 5 =30	15x 4 = 6
5.	Self-Directed Learning (SDL)	1 * 8 = 8 hours	08

Time Table for Foundation Module (First Week)
(12-02-2024 to 17-02-2024)

Date/Day	8:30 AM – 11:00 AM	11:00 AM – 11:40AM	11:40 AM – 12:20 PM	12:20-1:00PM		1:00-PM – 02:00 PM
12-02-2024 Monday	Welcome address by VC Introduction to RMU, Allied hospitals, Introduction to Medical Education Department & Integrated Modular System, Introduction to basic & clinical sciences & IT Services	Orientation to RMU Curricular Reforms				Introduction To Digital Services Of RMU
		Introduction to Integrated Modular Curriculum, Study Guide sand RMU Policies	Assessment Model of RMU & Continuous Internal Assessment	Research Model of RMU (IUGRC), Biomedical Ethics Family Medicine, Artificial Intelligence	BREAK 12:00 –12:20PM	Introduction To LMS, CMS, MS Teams (Online Component of Curriculum)
HR	Vice Chancellor RMU: Prof. Dr. Muhammad Umar Principle RMC: Prof Dr. Jahangir Sarwar Prof. Dr. Rai Muhammad Asghar: Director Medical Education * Director IT *	Dr. Sidra Hamid	Dr. Arsalan Mughal	Dr. Sadia Khan & Dr Khaula Noreen		Director IT Hafi Shahid Rasool
Venue	LATIF AUDITORIUM					LATIF AUDITORIUM
13-02-2024 Tuesday	**8:00 AM – 9:00 AM**	**9:00 AM – 10:00 AM**	**10:00 AM – 11:00 AM**	**11:00-12:00** / **12:20 PM – 1:00 PM**		**1:00-2:00 PM**
	Introduction to Anatomy Department	Introduction to Physiology Department	Introduction to Biochemistry Department	**BEHAVIORAL SCIENCES(LGIS)** / Introduction to Behavioral Sciences	**PHARMACOLOGY & PATHOLOGY** / Introduction to Pharmacology and Patholgy	Anatomy Bio data forms, Physiology & Biochemistry bio data forms
HR	Prof. Dr. Ayesha Yousaf (HOD& DEAN) **	Prof. Dr. Samia Sarwar **	Dr. Aneela**	Prof. Asad Tameeaz ud Din	Dr. Mudasira (Odd) / Dr. Zaheer (Even)	Dr. Fareed, Dr. Kashif Dr. Ali Raza
Venue	Lecture Theatre Complex Hall No 2					Lecture Theatre Complex Hall No 2
14-02-2024 Wednesday	**8:00 AM- 10:00AM**	**10:00-11:00**	**11:00 AM – 12:00 AM**	**12:20 AM – 1:00 PM**		**1:00-2:00 PM**
	DISSECTION / SGD	**BEHAVIORAL SCIENCES(LGIS)**	**PHYSIOLOGY (LGIS)**	**COMMUNITY MEDICINE**		**BIOCHEMISTRY (LGIS)**
	Anatomicomedical terminologies I (positions and planes)	Management of stress	Cell Physiology & homeostasis / Concept of body fluids & Internal environment	Introduction to Health Research process and researcher (Research-I)		Cell Organelles (1) / Cell membrane
HR	4 Demonstrators 4 Batches of Students	Dr. Sadia (Even) / Dr. Zona (Odd)	Dr. Faizania Shabir (Even) / Dr. Sidra Hamid (Odd)	Dr. Rizwana (Even) / Dr. Khaula Noreen Odd)		Dr. Rahat (Even) / Dr. Kashif Rauf (Odd)
15-02-2024 Thursday	**8:00 AM – 10:00 AM**	**10:00 – 11:00AM**	**11:00- 12:00PM**	**12:00 – 01:00PM**		**1:00-2:00 PM**
	DISSECTION/SGD	**DME**	**PHYSIOLOGY (LGIS)**	**ANATOMY (LGIS)**		**COMMUNITY MEDICINE**
	Anatomicomedical terminologies II (Anatomical terms and axis of movements)	Introduction to Different Teaching Strategies, Role of Team Leader Facilitator and Students SGD/LGIS/TBL/PAL/INTERNET & Literature Group activity	Concept of body fluids & Internal environment / Cell Physiology & homeostasis	Embryology / General Anatomy; Introduction to Human Development / Introduction to General Anatomy		Characteristics of research and health research methods (Research-II)
HR	4 Demonstrators 4 Batches of Students	Dr. Sidra Hamid (Even) / Dr. Rizwana Shahid (Odd)	Dr. Sidra Hamid (Even) / Dr. Faizania Shabir (Odd)	Prof. Ayesha Yousaf (Even) / Ass. Prof. Dr Arslan (Odd)		Dr. Rizwana (Even) / Dr. Imran Younas (Odd)
16-02-2024 Friday	**8:00 AM – 9:00 AM**	**9:00 AM – 10:00 AM**	**10:00 AM – 11:00 AM**	**11:00 AM – 12:00 PM**		
	ISLAM & MEDICAL SCIENCE / **QURAN TRANSLATION**	**ANATOMY LGIS**	**BIOETHICS**	**PHARMACOLOGY**		
	Islam And Medical Science / Introduction to Quran Translation	General Anatomy / Embryology; Introduction to General Anatomy / Introduction to Human development	Introduction to History of Medical Ethics	Routes of drug administration		
HR	Moulana Abdul Wahid (Even) / Mufti Naeem Sherazi (Odd)	Ass. Prof. Dr Arsalan (Even) / Prof. Dr. Ayesha Yousaf (Odd)	Dr. Arsalan (Even) / Dr Sidra Hamid (Odd)	Dr Omaima (Even) / Dr Zoefishan (Odd)		
17-02-2024 Saturday	**8:00 AM – 9:00 AM** / **9:00 AM – 10:00 AM**	**10:00 AM – 11:00 AM**	**11:00 AM – 12:00 AM**	**12:00 AM – 1:00 PM**		**1:00 - 2:00 PM**
	DISSECTION/SGD	**DME & BIOETHICS**	**DME & BIOETHICS**	**BIOCHEMISTRY (LGIS)**		**COMMUNITY MEDICINE**
	Anatomicomedical terminologies III (Cell and tissues)	Professionalism / Leadership	Leadership / Professionalism	Cell membrane / Cell Organelles-I		Basics of Ethics in Health Research (Research-III)
HR	4 Demonstrators 4 Batches of Students	Dr Sidra Hamid (Even) / Dr. Arslaan (Odd)	Dr. Arslaan (Even) / Dr Sidra Hamid (Odd)	Dr. Kashif Rauf (Even) / Dr. Rahat (Odd)		Dr. Rizwana (Even) / Dr. Moneeba Iqbal (Odd)

Details of Venue & Batches

Schedule for Practical / Small Group Discussion (Histology Practical Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)

Day	**Histology Practical**	**Biochemistry Practical**	**Physiology Practical**	**Physiology SGD**	**Biochemistry SGD**
Monday	C	B	E	A	D
Tuesday	D	C	A	B	E
Wednesday	E	D	B	C	A
Thursday	B	A	D	E	C
Saturday	A	E	C	D	B

Venue for First Year Batches for Anatomy Dissection / Small Group Discussion (Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)

Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
B	91-180	Dr QuraulAin	New Lecture Hall Complex 03
C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03
D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04

Venue for First Year Batches for PBL & SGD Team-I

Batches	Roll No	Venue	
Batch-A1	(01-35)	Lecture Hall no.05 (Physiology)	Dr. Farhat Jabeen (PGT Physiology)
Batch-A2	(36-70)	Lecture Hall no.04 (1st Floor Anatomy)	Dr. Ali Zain (PGT Physiology)
Batch-B1	(71-105)	Lecture Hall no.02 (Basement)	Dr. Afsheen Batool (PGT Physiology)
Batch-B2	(106-140)	Conference room (Basement)	Dr. Najam-us-Sehar (PGT Physiology)
Batch-C1	(141-175)	Lecture Hall N0. 04 (Basement)	Dr. Maryam Abbas (PGT Physiology)
Batch-C2	(176-210)	Lecture Hall NO. 05 (Basement)	Dr. Nayab Zonish (PGT Physiology)
Batch-D1	(210-245)	Lecture Hall NO. 03 (First Floor)	Dr. Iqra Ayub (PGT Physiology)
Batch-D2	(246-280)	Anatomy Museum (First Floor Anatomy)	Dr. Muhammad Usman (PGT Physiology)
Batch-E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)
Batch-E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf (Demonstrator Biochemistry)

Sr. No	Batch	Roll no	Names of Teachers	
			Biochemistry	Physiology
1.	Batch – A	01-70	Dr. Almas Ijaz	Dr. Sheena Tariq
2.	Batch –B	71-140	Dr. Rahat Afzal	Dr. Uzma Kiani / Dr. Farhat
3.	Batch –C	141-210	Dr. Nayab	Dr. Fahd Anwar
4.	Batch –D	211-280	Dr. Uzma Zafar	Dr. Maryam Abbas / Dr. Afsheen
5.	Batch -E	281-onwards	Dr. Romessa	Dr. Fareed / Ali Zain

Venues for Large Group Interactive Session (LGIS) and SDL

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table for Foundation Module (Second Week)
(19-02-2024 to 24-02-2024)

DATE/ DAY	8:00 AM – 9:00 AM	9:00 AM – 09:50 AM	9:50AM – 10:10AM	10:10 AM – 11:00 AM	11:00 AM – 11:50 AM	11:50 AM - 12:20 PM	12:20 PM TO 02:00PM	Home Assignment
19-02-2024 Monday	**SGD/CBL** Anatomicomedical Terminologies IV (Skin and body systems)		Break	**PHYSIOLOGY (LGIS)** Cell membrane & classification of cell organelles Dr. Faizania Shabir (Even) Intracellular communication and cell junction Dr. Sidra Hamid (Odd)	**PHYSIOLOGY (LGIS)** Intracellular communication and cell junction Dr. Sidra Hamid (Even) Cell membrane & classification of cell organelles Dr. Faizania Shabir (Odd)	Break	**Practical & SGD** Topics& Venue mentioned at the end (Refer to table no. 1)	SDLPhysiology Homeostasis
20-02-2024 Tuesday	**SGD** Clavicle	**CBL** Fracture of Clavicle (Refer to table no. 3)		**PHYSIOLOGY SGD** Concept of Body Fluid and Internal Environment Refer to Table No.3	**PHYSIOLOGY (LGIS)** Cell organelles& cell function - I Dr. Faizania Shabir (Even) Receptor and signal transduction Dr. Sidra Hamid (Odd)		**Practical & SGD** Topics& Venue mentioned at the end (Refer to table no. 1)	SDLphysiology Homeostatic control mechanism
21-02-2024 Wednesday	**Dissection** Scapula	**SUPERVISED SDL** Scapula Anastomosis & its Clinical Significance		**PATHOLOGY (LGIS)** Cellular response to Injury Dr. Rabia (Even) Dr Fatima (Odd)	**PHARMACOLOGY LGIS** Absorption of drugs Dr. Arsheen (Even) Dr. Omaima (Odd)		**Practical & SGD** Topics& Venue mentioned at the end (Refer to table no. 1)	SDL Biochemistry Cell organelles
22-02-2024 Thursday	**PATHOLOGY (LGIS)** Intra Cellular accumulation Dr. Rabia (Even) / Dr Fatima (Odd)	**BIOCHEMISTRY LGIS** Cell Organelle-II / Transport across cell membrane Dr. Rahat (Even) / Dr. Kahsif Rauf (Odd)		**PHYSIOLOGY (LGIS)** Receptor and signal transduction Dr. Sidra Hamid (Even) Cell organelles & related cell function - I Dr. Faizania Shabir (Odd)	**PHARMACOLOGY (LGIS)** Factors affecting Absorption of drugs Dr. Mehmoona (Even) Dr Omaima (Odd)		**Practical & SGD** Topics& Venue mentioned at the end (Refer to table no. 1)	SDL Biochemistry Cell Membrane Transport Across Cell Membrane
23-02-2024 Friday	**BIOCHEMISTRY LGIS** Transport across cell membrane / Cell organelle-II Dr. Kashif Rauf (Even) / Dr. Rahat (Odd)	**ISLAM AND MEDICAL SCIENCE** Introduction to Quran translation / Islam And Medical Science Mufti Naeem Sherazi (Even) / Moulana Abdul Wahid (Odd)		**ENTREPRENEURSHIP (LGIS)** Ideate Initial Idea Dr. Asif		SDL Anatomy clavicle		
24-02-2024 Saturday	**DISSECTION/ SGD** Humerus			**BIOCHEMISTRY (LGIS)** Water & PH Dr. Uzma Zafar (Even) Physico chemical aspects-I Dr. Nayab (Odd)	**PHARMACOLOGY (LGIS)** Distribution of drugs Dr. Omaima (Even) Dr Uzma (Odd)	Break	**Practical & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Anatomy Scapula

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Introduction to Microscope and Preparation of Slide. Artifacts (Anatomy/Histology-practical) venue-Histology Laboratory (Dr. Kashif)
- Introduction to glass wares (Pipetting) (Biochemistry practical) venue-Biochemistry lab)
- Introduction to Microscope. (Physiology-Practical (Physiology Laboratory)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Physiology Practical		Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name
Monday	C	Dr. Kashif (Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)	B	Dr. Rahat	E	Dr. Ali	A	Dr. Sheena	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab	A	Dr. Sheena	B	Dr. Uzma	E	Dr. Almas
Wednesday	E		D	Dr. Uzma	B	Dr. Uzma	C	Dr. Fahd	A	Dr. Romessa
Thursday	B		A	Dr. Almas	D	Dr. Maryam	E	Dr. Ali	C	Dr. Nayab
Saturday	A		E	Dr. Romessa	C	Dr. Fahd	D	Dr. Maryam	B	Dr. Rahat

Topics for Small Group Discussion with Venue

- Physiology small group discussion-Functional organization of human body and cell physiology venue-Lecture Hall 5
- Biochemistry small group discussion – Cell & Cell membrane- Lecture Hall 3

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Disscussion SGDs / Dissections (Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)

Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
B	91-180	Dr Quraul Ain	New Lecture Hall Complex 03
C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03
D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04

Table No. 3 Batch Distribution with Venues and Teachers Name for Small Group Disscussion (SGD) Physiology

Topic: Concept of Body Fluid and Internal Environment
Date: 20-02-2024 Time: 10:10am – 11:00am

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 (Physiology)	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall NO. 05 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall no.04 (1st Floor Anatomy)	Dr. Ali Zain (PGT Physiology)	7.	D1	(210-245)	Lecture Hall NO. 03 (First Floor)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Lecture Hall no.02 (Basement)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Anatomy Museum (First Floor Anatomy)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Conference room (Basement)	Dr. Najam-us-Sehar (PGT Physiology)	9.	E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)
5.	C1	(141-175)	Lecture Hall N0. 04 (Basement)	Dr. Maryam Abbas (PGT Physiology)	10.	E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf (Demonstrator Biochemistry)

Table No. 4 Batch Distribution and Venues for Anatomy Case Base Learning (CBL)			
Topic: Fracture of Clavicle Date: 20-02-2024 Time: 09:00am – 09:50am			
Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
B	91-180	Dr Quraul Ain	New Lecture Hall Complex 03
C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03
D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04

Table No. 5 Batch Distribution and Venues for Anatomy Supervised SDL			
Topic: Scapula Anastomosis & its Clinical Significance Date: 21-02-2024 Time: 09:00am – 09:50am			
Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
B	91-180	Dr Quraul Ain	New Lecture Hall Complex 03
C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03
D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04

Table No. 6 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions									
Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 (Physiology)	Dr. Mohtashim Hina (Assoc. Prof. Anatomy)	6.	C2	(176-210)	Lecture Hall NO. 05 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall no.04 (1st Floor Anatomy)	Dr. Aneela Jamil (Assistant Professor of Biochemisty)	7.	D1	(210-245)	Lecture Hall NO. 03 (First Floor)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Lecture Hall no.02 (Basement)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Anatomy Museum (First Floor Anatomy)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Conference room (Basement)	Dr. Najam-us-Sehar (PGT Physiology)	9.	E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)
5.	C1	(141-175)	Lecture Hall N0. 04 (Basement)	Dr. Sidra Hamid (Assisttant Professor of Physiolgy)	10	E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf (Demonstrator Biochemistry)

Table No. 7 Venues for Large Group Interactive Session (LGIS)	
Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table for Foundation Module (Third Week)
(26-02-2024 to 02-03-2024)

DATE/ DAY	8:00 AM – 9:00 AM	9:00 AM – 09:50 AM	9:50 AM – 10:10 AM	10:10 AM – 11:00 AM	11:00 AM – 11:50 AM	11:50 AM - 12:20 PM	12:20 PM TO 02:00PM	Home Assignment
26-02-2024 Monday	**DISSECTION / SGD** Anterior Axioappendicular Muscles	**SUPERVISED SDL** Anterior Axioappendicular Muscles	B r e a k	**MEDICINE** Introduction to Medicine nd History of Medicine Dr. SalehaImran (Odd) / Dr. Ayesha Habib (Even)	**BIOCHEMISTRY LGIS** Physico chemical aspects-I / Water & PH Dr. Nayab (Even) / Dr. Uzma Zafar (Odd)	B r e a k	**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Intracellular communication
27-02-2024 Tuesday	**DISSECTION / SGD** Posterior Axioappendicular muscles	**SUPERVISED SDL** Posterior Axioappendicular muscles		**ANATOMY (LGIS)** Histology / Embryology Types of epithelium / Gametogenesis Spermatogenesis Asisstant. Prof Dr Arslan / Prof. Dr. Saima (Odd)	**PHYSIOLOGY (LGIS)** Cell organelles & cell function - II / Homeostasis Control System- I (Negative Feedback System, Concept of Error and Gain) Dr. Faizania Shabir (Even) / Prof. Dr. Samia Sarwar /Dr. Uzma (Odd)		**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Receptors &signal transduction
28-02-2024 Wednesday	**BIOCHEMISTRY (LGIS)** Physico chemical aspects-II / Water & PH II Dr. Nayab (Even) / Dr. Uzma Zafar(Odd)	**PATHOLOGY LGIS** Pigments Dr. Rabia (Even) / Dr Fatima (Odd)		**ANATOMY LGIS** Embryology / Histology Gametogenesis Spermatogenesis / Types of Epithelium Prof. Dr. Saima (Even) / Asisstant. Prof Dr Arslan Mughal (Odd)	**PHYSIOLOGY (LGIS)** Homeostasis Control System- I (Negative Feedback System, Concept of Error and Gain) / Cell organelles& cell function - II Prof. Dr. Samia Sarwar /Dr. Uzma (Even) / Dr. Faizania Shabir (Odd)		**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Physicochemical aspects (Osmosis, Osmotic Pressure)
29-02-2024 Thursday	**PEADS** Medical genetic & dysmorphology Dr. Sadaf (Even) / Dr Saira Liaqat (Odd)	**PHYSIOLOGY (SGD)** Receptor and signal transduction Physiology Team I		**BIOCHEMISTRY** Water & PH II / Physico chemical aspects-II Dr. Uzma Zafar (Even) / Dr. Nayab (Odd)	**PHYSIOLOGY (LGIS)** Genetics, transcription & translation / Homeostasis Control System-II (positive feedback, and concept of feed forward, adaptive control and vicious cycle) Dr. Faizania Shabir (Even) / Prof. Dr. Samia Sarwar /Dr. Uzma (Odd)		**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Physicochemical aspects (Surface Tension, Viscosity)
01-03-2024 Friday	**COMMUNITY MEDICINE** Basics of Ethics in Health Research (Research -IV) Dr Mneeba Iqbal(Even) / Dr Rizwana (Odd)	**BIOCHEMISTRY** Physico chemical aspects-III / Cancer Dr. Nayab (Even) / Dr. Almas (Odd)		**ANATOMY LGIS** Embryology / Histology Gametogenesis -Oogenesis) / Apical Cell Surface Prof. Dr. Ayesha (Odd) / Associate. Prof Dr. Mohtashim (Even)	**PHYSIOLOGY (LGIS)** Homeostasis Control System-II (positive feedback, and concept of feed forward, adaptive control and vicious cycle) / Genetics, transcription & translation Prof. Dr. Samia Sarwar /Dr. Uzma (Even) / Dr. Faizania Shabir (Odd)		12:00pm – 12:30pm SDL Anatomy Anterior axioappendicular muscles	
02-03-2024 Saturday	**Dissection** Dissection / Spotting	**BIOCHEMISTRY (LGIS)** Cancer / Physico chemical aspects-III Dr. Almas (Even) / Dr. Nayab (Odd)		**ANATOMY (LGIS)** Histology / Embryology Specialization of Apical cell surface / Gametogenesis Oogenesis Ass. Prof. Dr Mohtashim (Even) / Prof. Dr. Ayesha (Odd)	**PHYSIOLOGY (LGIS)** Cell membrane ion channels, transport across cell membrane / Structure of nucleus, ribosomes and cell division Dr. Faizania Shabir (Even) / Dr. Uzma (Odd)		**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Anatomy Postior axioappendicular muscles
Online LMS Assessment Will be Conducted in Evening (Date and time will be shared with separate notification)								

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Simple Epithelium (Anatomy/Histology-practical) venue-Histology Laboratory (Dr. Kashif)
- Introduction to Lab Equipment (Biochemistry practical) venue-Biochemistry Lab)
- Introduction to Wintrobe &Westergen tube (Physiology-Practical (Physiology Laboratory)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Physiology Practical		Physiology CBL		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name
Monday	C	Dr. Kashif (Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)	B	Dr. Rahat	E	Dr. Ali	A	Dr. Sheena	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab	A	Dr. Sheena	B	Dr. Uzma	E	Dr. Almas
Wednesday	E		D	Dr. Uzma	B	Dr. Uzma	C	Dr. Fahd	A	Dr. Romessa
Thursday	B		A	Dr. Almas	D	Dr. Maryam	E	Dr. Ali	C	Dr. Nayab
Saturday	A		E	Dr. Romessa	C	Dr. Fahd	D	Dr. Maryam	B	Dr. Rahat

Topics for Small Group Discussion & CBL with Venue

- Physiology CBL –Body fluid compartment, cell membrane & cytoskeletal-venue-Lecture Hall 5 (First Floor)
- Biochemistry Small Group Discussion - Physico chemical aspects of cell membrane - Lecture Hall 3 (First Floor) Cell & Cell membrane- Lecture Hall 3

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Disscussion SGDs / Dissections (Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)

Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
B	91-180	Dr Quraul Ain	New Lecture Hall Complex 03
C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03
D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04

Table No. 3 Batch Distribution with Venues and Teachers Name for Small Group Disscussion (SGD) Physiology									
Topic: Receptor and signal transduction Date: 29-02-2024 Time: 10:10am – 11:00am									
Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 (Physiology)	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall NO. 05 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall no.04 (1st Floor Anatomy)	Dr. Ali Zain (PGT Physiology)	7.	D1	(210-245)	Lecture Hall NO. 03 (First Floor)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Lecture Hall no.02 (Basement)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Anatomy Museum (First Floor Anatomy)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Conference room (Basement)	Dr. Najam-us-Sehar (PGT Physiology)	9.	E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)
5.	C1	(141-175)	Lecture Hall N0. 04 (Basement)	Dr. Maryam Abbas (PGT Physiology)	10.	E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf (Demonstrator Biochemistry)

Table No. 4 Batch Distribution and Venues for Anatomy Supervised SDL							
Topic: Anterior Axioappendicular Muscles Date: 26-02-2024 Time: 09:00am – 09:50am				Topic: Posterior Axioappendicular Muscles Date: 27-02-2024 Time: 09:00am – 09:50am			
Batches	**Roll No**	**Anatomy Teacher**	**Venue**	**Batches**	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02	A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
B	91-180	Dr Quraul Ain	New Lecture Hall Complex 03	B	91-180	Dr Quraul Ain	New Lecture Hall Complex 03
C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03	C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03
D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04	D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04

Table No. 5 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions									
Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 (Physiology)	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall NO. 05 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall no.04 (1st Floor Anatomy)	Dr. Ali Zain (PGT Physiology)	7.	D1	(210-245)	Lecture Hall NO. 03 (First Floor)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Lecture Hall no.02 (Basement)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Anatomy Museum (First Floor Anatomy)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Conference room (Basement)	Dr. Najam-us-Sehar (PGT Physiology)	9.	E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)
5.	C1	(141-175)	Lecture Hall N0. 04 (Basement)	Dr. Maryam Abbas (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf (Demonstrator Biochemistry)
No PBL Session during this week									

Table No. 6 Venues for Large Group Interactive Session (LGIS)	
Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table for Foundation Module (Fourth Week)
(04-03-2024 to 09-03-2024)

DATE/ DAY	8:00 AM – 9:00 AM		9:00 AM – 09:50 AM		9:50 AM – 10:10 AM	10:10 AM – 11:00 AM		11:00 AM – 11:50 AM		11:50 AM - 12:20 PM	12:20 PM TO 02:00PM	Home Assignment
04-03-2024 Monday	**BIOCHEMISTRY (LGIS)**		**PATHOLOGY LGIS**			**ANATOMY(LGIS)**		**PHYSIOLOGY (LGIS)**			**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Genetics, transcription & translation
	Introduction & Classification of Enzymes	Nucleic Acid Chemistry-I	Free Radicals/ Reactive Oxygen Species (ROS).	Free Radicals/ Reactive Oxygen Species (ROS).		Embryology	Histology	Structure of nucleus, ribosomes and cell division	Cell membrane ion channels, transport across cell membrane			
	Dr. Uzma Zafar (Even)	Dr. Kashif Rauf (Odd)	Dr. Rabia (Even)	Dr Fatima (Odd)		Female Reproductive Cycles	Intra cellular junctions & adhesions					
						Prof. Dr. Ayesha (Even)	Asst. Prof. Dr. Arsalan Manzoor (Odd)	Dr. Uzma (Even)	Dr. Faizania Shabir (Odd)			
05-03-2024 Tuesday	**BIOCHEMISTRY (LGIS)**		**ANATOMY LGIS**			**PBL SESSION -I**		**BIOCHEMISTRY (LGIS)**			**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Structure of nucleus ribosome's & cell division
	Nucleic Acid Chemistry-I	Introduction & Classification of Enzymes	Histology	Embryology		PBL Team		Nucleic Acid Chemistry-II	Properties / Factors of Enzymes			
			Intercellular junctions and adhesions	Female Reproductive Cycles								
	Dr. Kashif Rauf (Even)	Dr. Uzma Zafar (Odd)	Asst. Prof. Dr. Arsalan Manzoor (Even)	Prof. Dr. Ayesha (Odd)				Dr. Kashif Rauf (Even)	Dr. Uzma Zafar (Odd)			
06-03-2024 Wednesday	**DISSECTION / SGD**					**PATHOLOGY (LGIS)**		**PHYSIOLOGY (LGIS)**			**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Nucleic Acid Chemistry
	Axilla					Irreversible injury / Necrosis		Transport across cell membrane, Osmosis	Cellular control mechanism, cell cycle programmed cell death/ apoptosis			
						Dr. Rabia (Even)	Dr Fatima (Odd)	Dr. Faizania Shabir (Even)	Dr. Uzma (Odd)			
07-03-2024 Thursday	**DISSECTION / SGD**		**BIOCHEMISTRY (LGIS)**			**PBL SESSION -II**		**PHYSIOLOGY (LGIS)**			**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Cancer
	DISSECTION		Properties / Factors of Enzymes	Nucleic Acid Chemistry-II		PBL Team		Cellular control mechanism, cell cycle programmed cell death/ apoptosis	Transport across cell membrane, Osmosis			
			Dr. Uzma Zafar (Even)	Dr. Kashif Rauf (Odd)				Dr. Uzma (Even)	Dr. Faizania Shabir (Odd)			
08-03-2024 Friday	**PATHOLOGY LGIS.**		**BIOCHEMISTRY (LGIS)**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		SDL Anatomy Axilla		
	Irreversible Injury Apoptosis		MM Equation, Coenzymes, Co Factors	Replication		Embryology	Histology	Active Transport I	Active Transport II			
	Dr. Rabia (Even)	Dr Fatima (Odd)	Dr. Uzma Zafar (Even)	Dr. Aneela (Odd)		Fertilization	Glands					
						Prof. Dr Ayesha (Even)	Ass. Prof. Dr Muhtashim (Odd)	Dr. Faizania Shabir (Even)	Dr. Sheena (Odd)			
09-03-2024 Saturday	**DISSECTION / SGD**					**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Anatomy Brachial plexus
	Brachial plexus					Replication	MM Equation, Coenzymes, Co Factors	Active Transport II	Active Transport I			
						Dr. Aneela (Even)	Dr. Uzma Zafar (Odd)	Dr. Sheena (Even)	Dr. Faizania Shabir (Odd)			

Break (9:50 AM – 10:10 AM)

Break (11:50 AM - 12:20 PM)

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Stratified epithelium & transitional epithelium (Anatomy/Histology-practical) venue-Histology Laboratory (Dr. kashif)
- Physiochemical Aspects of Cell - Surface Tension and Emulsion (Biochemistry practical) venue-Biochemistry Lab)
- Apparatus identification (Introduction to Neubauer's chamber, Red Blood Cell (RBC) pipettes& White Blood Cell (WBC) pipette (Physiology-Practical (Physiology Laboratory)

Topics for CBLs with Venue

- Physiology CBL Down's syndrome – (venue-Lecture Hall 5)
- Biochemistry CBL – Enzymes-Lecture Hall 3

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Physiology Practical		Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name
Monday	C	Dr. Kashif (Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)	B	Dr. Rahat	E	Dr. Ali	A	Dr. Sheena	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab	A	Dr. Sheena	B	Dr. Uzma	E	Dr. Almas
Wednesday	E		D	Dr. Uzma	B	Dr. Uzma	C	Dr. Fahd	A	Dr. Romessa
Thursday	B		A	Dr. Almas	D	Dr. Maryam	E	Dr. Ali	C	Dr. Nayab
Saturday	A		E	Dr. Romessa	C	Dr. Fahd	D	Dr. Maryam	B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Disscussion SGDs / Dissections (Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
B	91-180	Dr Quraul Ain	New Lecture Hall Complex 03
C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03
D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 (Physiology)	Prof. Dr. Ayesha Yousaf (Professor of Anatomy)	6.	C2	(176-210)	Lecture Hall NO. 05 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall no.04 (1st Floor Anatomy)	Dr. Aneela Jamil (Assistant Professor of Biochemisty)	7.	D1	(210-245)	Lecture Hall NO. 03 (First Floor)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Lecture Hall no.02 (Basement)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Anatomy Museum (First Floor Anatomy)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Conference room (Basement)	Dr. Najam-us-Sehar (PGT Physiology)	9.	E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)
5.	C1	(141-175)	Lecture Hall N0. 04 (Basement)	Dr. Sidra Hamid (Assisttant Professor of Physiolgy)	10	E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf (Demonstrator Biochemistry)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03

Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

The Holy Month of Ramzan Observed
Timining are from 08:00AM – 01 :00PM

Time Table for Foundation Module (Fifth Week)
(11-03-2024 to 16-03-2024)

DATE/ DAY	8:00 AM – 9:00 AM	9:00 AM – 09:50 AM	9:50 AM – 10:10 AM	10:10 AM – 11:00 AM		11:00 AM – 11:50 AM		11:50 AM - 12:20 PM	12:20 PM - 02:00PM	Home Assignment
11-03-2024 Monday	**DISSECTION / CBL**			**ANATOMY (LGIS)**		**MEDICINE(LGIS)**			**Practical (Supervised by Prof Ayesha) & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Cell membrane
	Brachial plexus injuries and winging Of Scapula			Embryology	Histology	Chromosomal Abrassions				
	Pro. Dr. Saima (Even)	Assit. Prof. Dr. Arsalan Mughal (Odd)		Ovulation and fertilization	Glands					
				Prof. Dr. Ayesha (Even)	Ass. Prof. Dr. Mohtashim (Odd)	Dr. Madiha Nazr (Odd)	Dr. Unazua (Even)			
DATE/ DAY	**8:00 AM – 9:00 AM**	**9:00 AM – 09:50 AM**		**10:10 AM – 11:00 AM**		**11:00 AM – 11:50 AM**		**11:50 AM - 01:00 PM**		**Home Assignment**
12-03-2024 Tuesday	**DISSECTION**		**B r e a k**	**BIOCHEMISTRY (LGIS)**		**GYNAE & OBS**		**Practical (Supervised by Prof Ayesha) & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)		SDL Physiology Cell organelles
	Breast			Transcription	Regulation & Inhibition of Enzyme Activity	Introduction to fertilization . implantation. Embryogenesis and congenital anomalies				
				Dr. Aneela (Even)	Dr. Uzma Zafar (Odd)	Dr. Ammara Arooj (Even)	Lecture Theater No. 2			
13-03-2024 Wednesday	**DISSECTION / SGD**	**PATHOLOGY (LGIS)**		**BIOCHEMISTRY (LGIS)**		**BIOCHEMISTRY (LGIS)**		**Practical (Supervised by Prof Ayesha) & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)		SDL Biochemistry Diagnostic Role of Enzymes
	Dissection/spotting	Genetic disorder		Regulation & Inhibition of Enzyme Activity	Transcription	Translation	Mutation			
		Dr. Rabia (Even)	Dr Fatima (Odd)	Dr. Uzma Zafar (Even)	Dr. Aneela (Odd)	Dr. Aneela (Even)	Dr. Kashif Rauf (Odd)			
14-03-2024 Thursday	**DISSECTION / SGD**			**ANATOMY (LGIS)**		**BIOCHEMISTRY (LGIS)**		**Practical (Supervised by Prof Ayesha) & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)		SDL Biochemistry Transcription Online Clinical Evaluation will be conducted from 12 to 12:15 noon
	Sternoclavicular and acromioclavicular joints			Histology	Embryology	Mutation	Translation			
				Histology & Development of Mammary Gland	Cleavage and formation of blastocyst					
				Prof. Dr. Ifra Saeed / Asso. Dr. Mohatashim Hina (Even)	Prof. Dr. Ayesha Yousaf (Odd)	Dr. Kashif Rauf (Even)	Dr. Aneela (Odd)			
15-03-2024 Friday	**DISSECTION / SGD**			**BIOCHEMISTRY (LGIS)**		**MEDICINE(LGIS)**		SDL Anatomy Brachial plexus injuries (Refered to table no. 1)		
	Radiograph/Surface anatomy of axioapendicular region			Recombinant DNA/ PCR (Polymerase Chain Reaction)	Clinical Enzymology	History Taking and General Physical Examination				
				Dr. Kashif Rauf (Even)	Dr. Uzma Zafar / Dr. Aneela (Odd)	Dr. Imran Saeed (Odd)	Dr. Saima Mir (Even)			
DATE/ DAY	**8:00 AM – 9:00 AM**	**9:00 AM – 09:50 AM**		**10:10 AM – 11:00 AM**		**11:00 AM – 12:00 PM**				
16-03-2024 Saturday	Dissection/Spotting		**B r e a k**	**ANATOMY (LGIS)**		**BIOCHEMISTRY (LGIS)**		**Practical (Supervised by Prof Ayesha) & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)		SDL Anatomy Breast
				Histology	Embryology	Clinical Enzymology	Recombinant DNA/ PCR (Polymerase Chain Reaction)			
				Histology & Development of Mammary Gland	Cleavage and formation of blastocyst					
				Prof. Dr. Ifra Saeed / Asso. Dr. Mohatashim Hina (Odd)	Prof. Dr. Ayesha (Odd)	Dr. Uzma Zafar / Dr. Aneela (Even)	Dr. Kashif Rauf (Odd)			

Online Clinical Evaluation will be conducted from 12 to 12:15 noon on 14th March,2024

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects)
CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Mammary Gland (Anatomy/Histology-practical) Venue-Histology Laboratory (Dr. Kashif)
- Physiochemical aspects of cell-Adsorption & Tonicity (Biochemistry practical) venue- Biochemistry laboratory)
- Apparatus identification (Introduction to centrifuge machine) (Physiology-Practical) Venue-Physiology Laboratory

Topics for Small Group Discussion with Venue

- Physiology SGD – Cellular control mechanism, cell cycle, programmed cell death, Apoptosis Lecture Hall 5
- Biochemistry CBL – Genetics (PCR) - Lecture Hall 2

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Physiology Practical		Physiology SGD		Biochemistry CBL	
	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name
Monday	C	Dr. Kashif (Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)	B	Dr. Rahat	E	Dr. Ali	A	Dr. Sheena	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab	A	Dr. Sheena	B	Dr. Uzma	E	Dr. Almas
Wednesday	E		D	Dr. Uzma	B	Dr. Uzma	C	Dr. Fahd	A	Dr. Romessa
Thursday	B		A	Dr. Almas	D	Dr. Maryam	E	Dr. Ali	C	Dr. Nayab
Saturday	A		E	Dr. Romessa	C	Dr. Fahd	D	Dr. Maryam	B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Disscussion SGDs / Dissections (Supervised by Prof. Dr. Ayesha Yousaf & Associate Prof. Dr. Mohtashim Hina)

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
B	91-180	Dr Quraul Ain	New Lecture Hall Complex 03
C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03
D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04

Table No. 3 Batch Distribution with Venues and Teachers Name for Small Group Disscussion (SGD) Physiology

Topic: Concept of Body Fluid and Internal Environment
Date: 22-02-2024 Time: 10:10am – 11:00am

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 (Physiology)	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall NO. 05 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall no.04 (1st Floor Anatomy)	Dr. Ali Zain (PGT Physiology)	7.	D1	(210-245)	Lecture Hall NO. 03 (First Floor)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Lecture Hall no.02 (Basement)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Anatomy Museum (First Floor Anatomy)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Conference room (Basement)	Dr. Najam-us-Sehar (PGT Physiology)	9.	E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)
5.	C1	(141-175)	Lecture Hall N0. 04 (Basement)	Dr. Maryam Abbas (PGT Physiology)	10.	E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf (Demonstrator Biochemistry)

Table No. 4 Batch Distribution and Venues for Anatomy Case Base Learning (CBL)			
Topic: Brachial plexus injuries and winging Of Scapula Date: 11-03-2024 Time: 08:00am – 09:50am			
Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
B	91-180	Dr Quraul Ain	New Lecture Hall Complex 03
C	181- 270	Dr Sajjad	Anatomy Lecture Hall 03
D	271 and onwards	Dr Ali Raza	Anatomy Lecture Hall 04

Table No. 6 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions									
Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 (Physiology)	Dr. Mohtashim Hina (Assoc. Prof. Anatomy)	6.	C2	(176-210)	Lecture Hall NO. 05 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall no.04 (1st Floor Anatomy)	Dr. Aneela Jamil (Assistant Professor of Biochemisty)	7.	D1	(210-245)	Lecture Hall NO. 03 (First Floor)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Lecture Hall no.02 (Basement)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Anatomy Museum (First Floor Anatomy)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Conference room (Basement)	Dr. Najam-us-Sehar (PGT Physiology)	9.	E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)
5.	C1	(141-175)	Lecture Hall N0. 04 (Basement)	Dr. Sidra Hamid (Assisttant Professor of Physiolgy)	10	E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf (Demonstrator Biochemistry)
No PBL Session during this week									

Table No. 7 Venues for Large Group Interactive Session (LGIS)	
Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Early Clinical Exposure, Basic Life Support Workshop (BLS) for Foundation Module (Sixth Week)
(18-03-2024 to 23-03-2024)

Date / Days	Early Clinical Exposure (ECE) and Basic Life Support (BLS)		9:30 – 09:45 AM	
	08:00am – 09:30am		**Assembling Time for Early Clinical Exposure (ECE)**	**10:00am – 01:00 pm**
18-03-2024 Monday	Orientation Session on ECE Prof. Dr. Ifra Saeed Lecture Theater No. 2			Early Clinical Exposure Basic Life Support Workshop (BLS)
19-03-2024 Tuesday	Synopsis Writing Session			Early Clinical Exposure Basic Life Support Workshop (BLS)
	Dr. Khola Noreen Research Team A, B, C, D & E	Dr. Afifa kalsoom Research Team F, G, H, I & J		
	Lecture Theater No. 2	Lecture Theater No. 3		
20-03-2024 Wednesday	Questionare Development			Early Clinical Exposure Basic Life Support Workshop (BLS)
	Dr. Khola Noreen Research Team A, B, C, D & E	Dr. Afifa kalsoom Research Team F, G, H, I & J		
	Lecture Theater No. 2	Lecture Theater No. 3		
21-03-2024 Thursday	Hands on Session on Data Analysis			Early Clinical Exposure Basic Life Support Workshop (BLS)
	Dr. Khola Noreen Research Team A, B, C, D & E	Dr. Afifa kalsoom Research Team F, G, H, I & J		
	Lecture Theater No. 2	Lecture Theater No. 3		
22-03-2024 Friday	SDL			
23-03-2024 Saturday	Pakistan Day			

Implementation Details of Early Clinical Exposure and Basic Life Support Workshop (BLS) for First Year MBBS
Foundation Module Week Six 18-03-2024 – 21-03-2024 (Time: 10:00am – 1:00pm)

Time Table 1st year MBBS															
Early Clinical Teaching and Training Posting															
Batch Distribution & Units		Medicine				Surgery + Trauma		Emergency				Basic Life Support (Bls) Supervised by Dr Jawad			
		HFH Unit-I (RIUT) Dr. Seemab	HFH Unit- II (RIUT) Dr Nida Anjum / Dr. Unaiza	BBH Unit-I Dr. Sana Ahmed	BBH Unit- II Dr. Ali Murtaza	BBH Unit-I Dr. Sidra	BBH Unit- II Dr. Hina	Skill Lab HFH	RIUT (Emergency Medicine) Dr. Iqra Ashraf / Dr. Aeiman	BBH Medicine Dr. Sana Ahmed / Dr. Ali Murtaza	BBH Surgery Dr. Sidra / Dr. Hina	LTC-1 Dr Asma	LTC-2 Dr Abeera Zareen	LTC-3 Dr Ayesha Nazir	LTC-4 Dr Anum Malik
Modules	Dates / Days	A1	A2	A3	A4	D4, D3	D1, D2	C1	C2	C3	C4	B-BLS 1	B-BLS 2	B-BLS 3	B-BLS 4
		B1	B2	B3	B4	A3. A4	A1. A2	D1	D2	D3	D4	C-BLS 1	C-BLS 2	C-BLS 3	C-BLS 4
		C1	C2	C3	C4	B3, B4	B1, B2	A1	A2	A3	A4	D-BLS 1	D-BLS 2	D-BLS 3	D-BLS 4
		D1	D2	D3	D4	C3, C4	C1, C2	B1	B2	B3	B4	A-BLS 1	A-BLS 2	A-BLS 3	A-BLS 4
Foundation Module	Monday 18-03-2024	Medicine (A BATCH)				Surgery (D BATCH)		Emergency (C BATCH)				BLS (B BATCH)			
	Tuesday 19-03-2024	Medicine (B BATCH)				Surgery (A BATCH)		Emergency (D BATCH)				BLS (C BATCH)			
	Wednesday 20-03-2024	Medicine (C BATCH)				Surgery (B BATCH)		Emergency (A BATCH)				BLS (D BATCH)			
	Thursday 21-03-2024	Medicine (D BATCH)				Surgery (C BATCH)		Emergency (B BATCH)				BLS (A BATCH)			

Medicine			Surgery		
Name	**Hospital**	**Contact No.**	**Name**	**Hospital**	**Contact No.**
Dr. Semab	HFH, Unit-I	0335-8438595	Dr. Waqas	HFH, Unit-I	0334-5267644
Dr. Nadia Anjum	HFH, Unit-II	0323-5894543	Dr. Amjad Umair / Dr. Asad Amir	HFH, Unit-II	0312-5255299 / 0345-5533704
Dr. Sana Ahmed	BBH, Unit-I	0322-4726472	Dr, Sidra	BBH, Unit-I	0336-7021694
Dr. Ali Murtaza	BBH, Unit-II	0321-6539011	Dr. Hina	BBH, Unit-II	0336-0553435
Dr. Iqra Ashraf	RIUT, ER (Unit-I)	0342-5430577	Dr. Aieman	RIUT, ER Unit-II	0331-5388375
Dr. Unaiza	RIUT. MU-II	0305-7910755			

Details of Batch Distribution

Sr No.	Batches	Sub batches with Roll No.	Roll No.
1.	A	A1	1-22
		A2	23-45
		A3	46-68
		A4	69-92
2.	B	B1	93-115
		B2	116-139
		B3	140-162
		B4	163-184
3.	C	C1	185-206
		C2	207-228
		C3	229-250
		C4	251-272
4.	D	D1	273-295
		D2	296-317
		D3	318-340
		D4	340-onwards

List of Facilitators with Venues

Sr. No	Venue	Batch Incharge	
1.	Rawalpindi Institute of Urology (RIUT)	Dr. Zenera Saqib	MU-I
		Dr. Qurat ul Ain	MU-II
		Dr. Fahd Anwar	Emergency
2.	Benazir Bhutto Hospitals	Dr. Sheena	MU-I
		Dr. Almas	MU-II
		Dr. Rahat	SU-I
		Dr. Uzma	SU-II
		Dr. Sajjad Hussain	ER Medicine
		Dr. Ali Raza	ER Surgery
3.	Skill lab HFH	Dr. Jawad Hassan	Skill Lab

Facilitators for Basic Life Support Workshop

Sr. No	Facilitators	Venues
1.	Dr. Uzma Kiyani	LTC Hall No. 02
2.	Dr. Nayab	LTC Hall No. 03
3.	Dr. Minahil	Anatomy LT No. 03
4.	Dr. Kashif (Anatomy)	Anatomy LT No. 04

End of Foundation Module Assessment
(25-03-2024 to 30-03-2024)

Date / Days	Tentative Datesheet	Time
25-03-2024 Monday	End of Module Assessments (3 days) 25th march – 27th March, 2024	
26-03-2024 Tuesday		
27-03-2024 Wednesday		
28-03-2024 Thursday	Commencement of MSK-I Module	
29-03-2024 Friday		
30-03-2024 Saturday		

*Details will be shared separately with venue and Roll No. details

Integrated Clinically Oriented Modular Curriculum for First Year MBBS

MSK- I Module Time Table

First Year MBBS

Session 2023 - 2024

Batch- 51

MSK-I Module Team

Module Name : MSK-I Module
Duration of module : 05 Weeks
Coordinator : Dr. Maria Tasleem
Co-coordinator : Dr. Gaiti Ara
Reviewed by : Module Committee

Module Committee		
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar
2.	Chairperson Anatomy & Dean Basic Sciences	Prof. Dr. Ayesha Yousaf
3.	Director DME	Prof. Dr. Ifra Saeed
4.	Chairperson Physiology	Prof. Dr. Samia Sarwar
5.	Chairperson Biochemistry	Dr. Aneela Jamil
6.	Focal Person Anatomy First Year MBBS	Asso. Prof. Dr. Mohtashim Hina
7.	Focal Person Physiology	Dr. Sidra Hamid
8.	Focal Person Biochemistry	Dr. Aneela Jamil
9.	Focal Person Pharmacology	Dr. Zunera Hakim
10.	Focal Person Pathology	Dr. Asiya Niazi
11.	Focal Person Behavioral Sciences	Dr. Saadia Yasir
12.	Focal Person Community Medicine	Dr. Afifa Kulsoom
13.	Focal Person Quran Translation Lectures	Dr. Fahad Anwar
14.	Focal Person Family Medicine	Dr. Sadia Khan

Module Task Force Team		
1.	Coordinator	Dr. Maria Tasleem (Assistant Professor of Anatomy)
2.	DME Focal Person	Dr. Farzana Fatima
3.	Co-coordinator	Dr. Gaiti Ara (Senior Demonstrator of Anatomy)
4.	Co-Coordinator	Dr. Fahd Anwar (Demonstrator of Physiology)
5.	Co-coordinator	Dr. Romessa Naeem (Demonstrator of Biochemistry)

DME Implementation Team		
1.	Director DME	Prof. Dr. Ifra Saeed
2.	Assistant Director DME	Dr. Farzana Fatima
3.	Implementation Incharge 1st & 2nd Year MBBS	Prof. Dr. Ifra Saeed Dr. Farzana Fatima
4.	Editor	Muhammad Arslan Aslam

Discipline Wise Details of Modular Content

Block	Module	General Anatomy	Embryology	Histology	Gross Anatomy
I	• Anatomy	Skeletal System • Bones • Joints	General Embryology Second Week of Human Development till Placenta & Fetal Membranes	General Histology • Connective Tissue • Cartilage • Bone	Shoulder joint till Hand
	• Biochemistry	• Minerals, Vitamins (A, D, E, ascorbic acid, thiamin and niacin), Introduction & Classification of Amino Acids			
	• Physiology	• NMJ, Introduction Concept of Motor Unit. Neuromuscular Transmission, Synthesis & Fate of Acetylcholine • Drugs Acting On NMJ, Myasthenia Gravis, Lambart Eaton Syndrome • Structure of Neurons. Classification of Neurons & Nerve Fibers • Nernst Potential, RMP • Recording & Propagation of Action Potential & Factors Effecting Nerve Conduction & Hyperpolarized State • Stimulus & Response & Types of Stimuli, Stages of Action Potential			
	Spiral Courses				
	• The Holy Quran Translation	• Imaniat			
	• Seerat Mubarak	• The Significance of Seerah Studies • The Status of Hadith and Sunnah in Islam			
	• Bioethics & Professionalism	• Islamic concept of Bioethics			
	• Research Club Activity	• Comprehend their role in under “theme and scheme”			
	• Family Medicine	• Approach to a patient with Body aches			
	• Artificial Intelligence/Radiology	• Interpretation of upper limb Radiograph & use of AI			
	• Vertical components	• The Holy Quran Translation Component			
	Vertical Integration				
	Clinically content relevant to musculoskeletal-I module • Shoulder Dislocation (Surgery) • Tennis elbow, Fracture of olecranon, Radiusand Ulna (Surgery)				

	• Osteoporosis (Medicine) • Osteomalacia, Rickets & Polyarthritis (Medicine) • Accidents (Community Medicine)	
Early Clinical Exposure (ECE)		
	• Clinical Rotations	• How to Read Bone X- ray. • How to find Bone age • Fractures of distal Bones • Placental abanormalities • Uterine abnormalities • Pregnancy and effects of congenital uterine abnormalities • X-ray in paediatric age group • Pathologies like Rickets, congenital dislocation of hip joint and other abnormalities

Categorization of Modular Content of Anatomy:

Category A*	Category B**	Category C				
General Embryology	**General Histology**	**Demonstrations / SGD**	**CBL**	**Practical's**	**SDL**	**SSDL**
• Second week of Human Development • Gastrulation (3rd week) • Notochord Formation (3rd week) • Neurulation & differentiation of Somites (3rd week) • Early development of CVS & highlights of 4th-8th week • Folding of Embryo • Fetal period • Placenta • Fetal Membranes & Multiple pregnancy	• Connective Tissue I • Connective Tissue II • Connective Tissue III • Cartilage • Bone	• **Gross Anatomy:** • Shoulder joint • -Flexor Compartment & Neurovascular organization of Arm • Extensor compartment & Neurovascular organization of Arm • Bones of Forearm • Flexor compartment of forearm • Extensor compartment of forearm • Neurovascular organization of Forearm • Elbow joint • Proximal & Distal radioulnar joints • Bones of Hand • Wrist joint • Dorsum of Hand, Flexor & Extensor retinaculum • Palm of Hand & Facial spaces • Neurovascular organization of Hand • Surface Marking	• Shoulder Dislocation • Wrist Drop	• Histology of connective Tissue I • Connective tissue II • Cartilage • Bone	• Shoulder joint • Flexor and Extensor compartment of arm • Flexor & Extensor compartment of forearm • Elbow joint • Bones of Hand • Wrist joint • Neurovascular organization of Hand	• Proximal & distal radioulnar joint • Bones of hand

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Anatomy

Sr. #	Designation of Teaching Staff / Human Resource	Total number of teaching staff
1.	Professor of Anatomy department	01
2.	Associate professor of Anatomy department	01
3.	Assistant professor of Anatomy department (AP)	01
4.	Demonstrators of Anatomy department	03

Contact Hours (Faculty)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	2 * 23= 46 hours
2.	Small Group Discussions (SGD)	1.5 * 18 + 2*1=29 hours
3.	Case Based Learning (CBL)	2* 2 = 4 hours
5.	Practical / Skill Lab	1.5 * 20 = 30 hours

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	1 * 20 = 20 hours
2.	Small Group Discussions (SGD)	1.5 * 18 + 2*1=29 hours
3.	Case Based Learning (CBL)	2* 2 = 4 hours
4.	SSDL	3*2 = 6 hours
5.	Practical / Skill Lab	1.5 * 4 = 6 hours
6.	Self-Directed Learning (SDL)	1 * 7= 7 hours

Categorization of Modular Content of Physiology:

Category A*	Category B**	Category C***				
LGIS	**LGIS**	**PBL**	**CBL**	**Practical's**	**SGD**	**SDL**
NMJ, Introduction concept of motor unit. Neuromuscular transmission, synthesis & fateo facety lcholine (**Prof. Dr. Samia Sarwar /Dr Aneela)**	Structureofneurons. Classification of neurons & nerve fibers **(By Dr Sheena Tariq)**		**1.** Paresthesia, Paresis **2.** Insecticide poisoning	**1.** Determination of Hemoglobin concentration **2.** Determination of Hematocrit (HCT) **3.** Determination of Erythrocyte Sedimentation Rate (ESR) **4.** Determination of Differential leukocyte Count (DLC)	**1.** Nernst potential **2.** NMJ, Transmission across NMJ, Diseases of NMJ	1. Structure of neurons. Classification of neurons & nerve fibers 2. Nernst potential, RMP 3. Properties of nerve fibers 4. Measuret of RMP & effect of electrolytes on RMP 5. Concept of degeneration & regeneration 6. Stimulus & response & types of stimuli, Stages of action potential 7.A Refractory period, types of action potential. Graded potential comparison with action potential B. Recording & propagation of action potential & factors effecting nerve conduction & hyperpolarized state **SDL:(On Campus)** 1.Nernst potential, RMP Action Potential
Drugsactingon NMJ, Myasthenia Gravis, Lambart Eaton	Nernst potential, RMP **(By Dr Shazia)**					

Syndrome (**Prof. Dr. Samia Sarwar / Dr Aneela)**						
	Properties of nerve fibers **(By Dr Sheena)**					
	Measurement of RMP& effect of electrolytes on RMP **(By Dr. Shazia)**					
	Concept of degeneration & re generation **(By Dr Kamil)**					
	Stimulus & response & types of stimuli, Stages of action potential **(By Dr Fareed)**					
	Refractory period, types of action potential. Graded potential comparison With action potential **(By Dr Shazia)**					
	Recording & propagation of action potential & factors effect ingnerve Conduction & hyper polarized state **(By Dr Fareed)**					

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Physiology

Sr.#	Designation of Teaching Staff / Human Resource	Total number of teaching staff
1.	Professor of physiology department	01
2.	Associate professor of physiology department	01
3.	Assistant professor of physiology department (AP)	01 (DME)
4.	Demonstrators of physiology department	07
5.	Residents of physiology department (PGTs)	06

Contact Hours (Faculty) & Contact Hours (Students)

Sr.#	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (Lectures)	10X 2 = 20 Hours
2.	Small Group Discussions (SGD)/ Case based learning (CBL)	18x 2 hours = 36hours + 2hours (4th week) +1 hour (1st week) =39 hours
3.	Problem Based Learning (PBL)	---
4.	Practical / Skill Lab	18x 2 hours= 36hours + 2 hours (4th week) = 38 hours
5.	Self-DirectedLearning (SDL)	7x 1hour= 7 hours (Off Campus) 4x 1hour= 4hours (On Campus) (Third week)

Categorization of Modular Content of Department of Biochemistry:

<table>
<tr><th>Category A*</th><th>Category B**</th><th colspan="4">Category C***</th></tr>
<tr><th>LGIS</th><th>LGIS</th><th>PBL</th><th>CBL</th><th>Practical’s</th><th>SGD</th></tr>
<tr><td rowspan="2">Minerals: Introduction & Classification.
Calcium & Phosphate</td><td rowspan="2">Vitamins: Introduction & Classification.
Vitamin A &Vitamin E</td><td rowspan="4"></td><td rowspan="4">• Night Blindness
• Rickets</td><td>• 7 Colour Tests for Proteins</td><td rowspan="2">Introduction & Classification of Vitamins.
Vitamin E</td></tr>
<tr><td rowspan="3">• Serum Calcium & Ascorbic Acid</td></tr>
<tr><td>Vitamin C</td><td rowspan="2">•Minerals</td></tr>
<tr><td>Vitamin D</td><td>Niacin & Thiamine
Magnesium, Sulphur, Fluoride
Minerals: Copper, Zinc, Selenium, Iodine, Magnesia
Classification & Structure of Amino Acids& Isomerism</td></tr>
<tr><td colspan="6">Category A*: Assistant Professor& Senior Demonstrator with post graduate Qualification</td></tr>
<tr><td colspan="6">Category B**: Senior Demonstrators</td></tr>
<tr><td colspan="6">Category C***: By All Demonstrators</td></tr>
</table>

Teaching Staff / Human Resource of Department of Biochemistry

Sr. #	Designation Of Teaching Staff / Human Resource	Total number of teaching staff
1	Assistant professor of biochemistry department (AP)	01
2	Demonstrators of biochemistry department	06

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (student)
1.	Large Group Interactive Session (Lectures)	12	6
2.	Small Group Discussions (SGD)	6 * 5 = 30 hours	1.5*4=6
3.	Problem Based Learning (PBL)	2 * 1 = 2 hours	02
4.	Practical / Skill Lab	30 hours	6
5.	Self-Directed Learning (SDL)	1 * 7= 7hours	07

Time Table for Musculoskeletal-I Module (First Week)
(01-04-2024 To 03-04-2024)

Day & Date	08:00AM – 09:00AM		09:00AM – 09:50AM	09:50AM – 10:40AM		10:40AM– 11:00 AM	11:00AM – 11:50AM		11:50AM – 01:00PM	Home Assignment
Monday 01- 04-2024	**BIOCHEMISTRY (LGIS)**		**DME**	**ANATOMY (LGIS)**		**Break**	**PHYSIOLOGY(LGIS)**		Practical & Tutorial Venue & topic mentioned at the end Batches, Teachers & Venue Mentioned in Table No. 1	SDL Physiology Structure of Neurons & Classification of Neurons
	Mineral introduction/ classification/ calcium & Phosphate	Defination and classification of vitamins vitamin A & E	Students Feedbacks of Foundation Module 1st year Students MBBS	**Embryology**	**Histology**		Structure of neurons Classification of neurons and nerve fibers	Nernst Potential & RMP		
				2nd Week of Development	Connective tissue (CT) – I (Cells of CT)					
	Dr. Aneela / Dr. Uzma (Even)	Dr. Almas (Odd)	Foundation Module Team	Prof. Dr. Ayesha (Even)	Ass. Prof. Dr. Mohtasham (Odd)		Dr. Sheena (Even)	Dr. Shazia (Odd)		
Tuesday 02 -04-2024	**CBL**			**PHYSIOLOGY (LGIS)**			**RESEARCH CLUB ACTIVITY**			SDL Physiology Nernst Potential & RMP
	Shoulder Joint (Shoulder Dislocation) Batches, Teachers & Venue Mentioned in Table No. 1			Nernst Potential & RMP	Structure of neurons Classification of neurons andnerve fibers		Hands on Session on Data Analysis			
				Dr. Shazia (Even)	Dr. Sheena (Odd)		Dr. Rizwana Shahid (Even)	Dr. Asif (Odd)		
Wednesday 03-04-2024	**SGD/ DISSECTION**			**ANATOMY (LGIS)**			**BIOETHICS**		Practical & Tutorial Venue & topic mentioned at the end **(Tuesday Batch)** Batches, Teachers & Venue Mentioned in Table No. 1	SDL Biochemistry Definition & classification of vitamins, Vitamin A, Vitamin E
	Flexor compartment & Neurovascular organization of arm Batches, Teachers & Venue Mentioned in Table No. 2			**Histology**	**Embryology**		Islamic concept of Bioethics			
				Connective tissue-I (Cells of CT)	2nd Week of Human Development					
				Ass. Prof. Dr. Mohtasham (Even)	Prof. Dr. Ayesha (Odd)		Dr. Kashif Rauf (Even)	Dr. Fahd Anwar (Odd)		

Spring Holidays & Eid Ul Fitr Holidays 2024
04th April 2024 to 13th April, 2024

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Connective Tissue I (Anatomy Histology Practical) Venue- Histology Laboratory-Dr Ali Raza
- Biuret, Ninhydrin Test (Biochemistry Practical) Venue- Biochemistry Laboratory
- Determination of Hemoglobin concentration (Physiology-Practical)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Supervised by HOD	Physiology Practical		Physiology SGD		Biochemistry SGD		Supervised by HOD
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	
Monday	C	Supervised by HOD	B	Dr. Rahat		E	Dr. Farid/Dr. Ali Zain	A	Dr. Sheena/ Dr. Ali Zain	D	Dr. Uzma	
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/Dr.Nazia	B	Dr. Uzma/ Dr. Nazia	E	Dr. Almas	
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd	A	Dr. Romessa	
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain	C	Dr. Nayab	
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen	B	Dr. Rahat	

Topics for SGDs / CBL with Venue

- Physiology SGD: Nernst potential (Physiology Lecture Hall 05)
- Biochemistry SGD: Introduction and Classification of Vitamins &Vitamin E (Venue: Lecture Hall No 2)
- Anatomy CBL: Shoulder Dislocation, Wrist drop

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr. Ali Raza	Anatomy Lecture Hall No.4
B	91-180	Dr Zeneara Saqib	New Lecture Hall Complex No. 02
C	181-270	Dr. Kashif Ashraf	New Lecture Hall Complex No. 03
D	271- onwards	Dr. Sajjad	Anatomy Lecture Hall No.3
Supervised by Prof. Dr. Ayesha Yousaf			

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Prof. Dr. Ifra Saeed (Professor of Anatomy)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Prof. Dr. Ayesha Yousaf (Professor of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Nayab (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)
No PBL Session during this week									

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table for Musculoskeletal-I Module (First Week)
(15-04-2024 To 17-04-2024)

Day & Date	08:00AM – 09:00AM	09:00AM – 09:50AM	09:50AM – 10:10AM	10:10AM – 11:00AM	11:00AM– 11:20 AM	11:20AM – 12:20PM	12:20PM – 02:00PM	Home Assignment
Monday 15-04-2024	**CBL** Extensor compartment & Neurovascular organization of arm (Wrist Drop) Batches, Teachers & Venue Mentioned in Table No. 1		**B r e a k**	**ANATOMY (LGIS)** **General Anatomy**: Bone-I (General Features) — Dr. Arslan (Even) **Histology**: Connective tissue-II (Extracellular Matrix & Types of CT) — Prof. Dr. Saima Naz / Ass. Prof. Dr. Mohtasham (Odd)	**B r e a k**	**PHYSIOLOGY(LGIS)** Properties of nerve Fibers — Dr. Sheena (Even) Measurement & effect of electrolytes on RMP — Dr. Shazia (Odd)	Practical & Tutorial Venue & topic mentioned at the end **(Wednesday Batch)**	SDL Biochemistry Mineral introduction/ classification/ calcium & Phosphate
Tuesday 16-04-2024	**MEDICINE** Osteoporosis Dr Saima Mir (Even) — Dr Javaria Malik (odd)	**BIOCHEMISTRY (LGIS)** Definition & classification of vitamins, Vitamin A, Vitamin E — Dr. Almas (Even) Mineral introduction/ classification/ calcium & Phosphate — Dr. Aneela / Dr. Uzma (Odd)		**ANATOMY (LGIS)** **Histology**: Connective Tissue – II (Extracellular Matrix & Types of CT) — Prof. Dr. Saima Naz / Ass. Prof. Dr. Mohtasham (Even) **Embryology**: 3rd week of development (Gastrulation) — Prof. Dr. Ayesha (Odd)		**FAMILY MEDICINE** Approach to a patient with Body Pains Dr Sadia (Even) — Dr. Sidra Hamid (Odd)	Practical & Tutorial Venue & topic mentioned at the end **(Thursday Batch)** Batches, Teachers & Venue Mentioned in Table No. 1	SDL Anatomy Shoulder joint
Wednesday 17-04-2024	**SGD/ DISSECTION** Dissection & Spotting Batches, Teachers & Venue Mentioned in Table No. 2			**ANATOMY (LGIS)** **Embryology**: 3rd week of development (Gastrulation) — Prof. Dr. Ayesha (Even) **General Anatomy**: Bone-I (General Features) — Ass. Prof. Dr. Arslan (Odd)		**PHYSIOLOGY(LGIS)** Measurement & effect of electrolytes on RMP — Dr. Shazia (Even) Properties of nerve Fibers — Dr. Sheena (Odd)	Practical & Tutorial Venue & topic mentioned at the end **(Saturday Batch)** Batches, Teachers & Venue Mentioned in Table No. 1	SDL Anatomy Flexor and Extensor compartments of arm

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Connective Tissue I (Anatomy Histology Practical) Venue- Histology Laboratory-Dr Ali Raza
- Biuret, Ninhydrin Test (Biochemistry Practical) Venue- Biochemistry Laboratory
- Determination of Hemoglobin concentration (Physiology-Practical)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Supervised by HOD	Physiology Practical		Physiology SGD		Biochemistry SGD		Supervised by HOD
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	
Monday	C	Supervised by HOD	B	Dr. Rahat		E	Dr. Farid/Dr. Ali Zain	A	Dr. Sheena/ Dr. Ali Zain	D	Dr. Uzma	
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/Dr.Nazia	B	Dr. Uzma/ Dr. Nazia	E	Dr. Almas	
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd	A	Dr. Romessa	
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain	C	Dr. Nayab	
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen	B	Dr. Rahat	

Topics for SGDs / CBL with Venue

- Physiology SGD: Nernst potential (Physiology Lecture Hall 05)
- Biochemistry SGD: Introduction and Classification of Vitamins &Vitamin E (Venue: Lecture Hall No 2)
- Anatomy CBL: Shoulder Dislocation, Wrist drop

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr. Ali Raza	Anatomy Lecture Hall No.4
B	91-180	Dr Zeneara Saqib	New Lecture Hall Complex No. 02
C	181-270	Dr. Kashif Ashraf	New Lecture Hall Complex No. 03
D	271- onwards	Dr. Sajjad	Anatomy Lecture Hall No.3
Supervised by Prof. Dr. Ayesha Yousaf			

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Prof. Dr. Ifra Saeed (Professor of Anatomy)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Prof. Dr. Ayesha Yousaf (Professor of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Nayab (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)
No PBL Session during this week									

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table for Musculoskeletal-I Module Second Week
(18-04-2023 to 24-04-2024)

DATE/ DAY	8:00 AM – 09:50 AM	09:50 AM – 10: 10 AM	10:10 AM – 11:00 AM	11:00 AM – 11:20 AM	11:20 AM - 12:20 PM	12:20 PM -02:00PM	Home Assignment
Thursday 18-04-2024	**SGD / DISSECTION** Bones of forearm (Ulna & Radius) Batches, Teachers & Venue Mentioned in Table No. 2	**Break**	**ANATOMY (LGIS)** **General Anatomy**: Bone-II (Classification & Blood Supply) — Ass. Prof. Dr. Arslan(Even) **Embryology**: 3rd week (Notochord formation & Differentiation of Somites) — Prof. Dr. Ayesha (Odd)	**Break**	Physical Activity	**Practical & CBL** Venue & topic mentioned at the end Batches, Teachers & Venue Mentioned in Table No. 1	SDL Physiology Resting Membrane Potential
DATE/ DAY	**8:00 AM – 10:00 AM**	**10:00 AM – 11:00 AM**		**11:00 AM – 12:00 PM**			
Friday 19-04-2024	**SGD / DISSECTION** Flexor compartment of forearm Batches, Teachers & Venue Mentioned in Table No. 2	**ANATOMY (LGIS)** **Embryology**: 3rd week (Notochord formation & Differentiation of Somites) — Prof. Dr. Ayesha (Even) **General Anatomy**: Bone-II (Classification & Blood Supply) — Ass. Prof. Dr. Arslan (Odd)		**PHYSIOLOGY(LGIS)** Concept of Degeneration and regeneration — Dr. Kamil (Even) Stimulus & Response &Type of stimuli. Stages of action potential — Dr. Fareed (Odd)		SDL Physiology Action Potential	
Saturday 20-04-2024	**SGD / DISSECTION** Extensor compartment of forearm Batches, Teachers & Venue Mentioned in Table No. 2	**Break**	**ANATOMY (LGIS)** **Histology**: Connective Tissue-III (Types of CT) — Ass. Prof. Dr. Mohtasham (Even) **Embryology**: 3rd week (Neurulation) — Prof. Dr. Ayesha (Odd)	**Break**	**PHYSIOLOGY(LGIS)** Stimulus & Response &Type of stimuli. Stages of action potential — Dr. Fareed (Even) Concept of Degeneration and regeneration — Dr. Kamil (Odd)	**Practical & CBL** Venue & topic mentioned at the end. Batches, Teachers & Venue Mentioned in Table No. 1	SDL Biochemistry Biochemical role of vitamin D
Monday 22-04-2024	**SGD / DISSECTION** Neurovascular organization of forearm Batches, Teachers & Venue Mentioned in Table No. 2	**Break**	**ANATOMY (LGIS)** **Embryology**: 3rd week (Neurulation) — Prof. Dr. Ayesha (Even) **Histology**: Connective Tissue-III (Types of CT) — Ass. Prof. Dr. Mohtasham (Odd)	**Break**	**BIOCHEMISTRY LGIS** Fluoride, Magnesium & Sulphur Copper, Zinc, Selenium, Iodine, Manganese — Dr. Uzma (Even) Vitamin D — Dr. Aneela (Odd)	**Practical & CBL** Venue & topic mentioned at the end. Batches, Teachers & Venue Mentioned in Table No. 1	SDL Biochemistry Fluoride, Magnesium & Sulphur Copper, Zinc, Selenium, Iodine, Manganese
Tuesday 23-04-2024	**SGD/ DISSECTION** Elbow joint & Anastomosis around elbow joint Batches, Teachers & Venue Mentioned in Table No. 2		**ANATOMY (LGIS)** **Embryology**: 4th-8th week of development & Early development of CVS — Prof. Dr. Ayesha Yousaf / Prof. Dr. Saima (Even) **Histology**: Cartilage — Prof. Dr. Ifra Saeed/Ass. Prof. Dr. Mohtasham (Odd)		**PBL SESSION –I** Muscle Weakness PBL Team	**Practical & CBL** Venue & topic mentioned at the end. Batches, Teachers & Venue Mentioned in Table No. 1	SDL Anatomy Flexor & Extensor compartments of forearm
Wednesday 24-04-2024	**SGD/ DISSECTION** Proximal & Distal Radioulnar joints Batches, Teachers & Venue Mentioned in Table No. 2		**ANATOMY (LGIS)** **Histology**: Cartilage — Prof. Dr. Ifra Saeed/Ass. Prof .Dr. Mohtasham (Even) **Embryology**: 4th-8th week of development & Early development of CVS — Prof. Dr. Ayesha Yousaf / Prof. Dr. Saima (Odd)		**PHYSIOLOGY (LGIS)** Recording & propagation of action potential & factors effecting nerve conduction & hyperpolarized state — Dr. Fareed (Even) Refractory period, types of action potential. Graded potential comparison with action potential — Dr Shazia (Odd)	**Practical & CBL** Venue & topic mentioned at the end. Batches, Teachers & Venue Mentioned in Table No. 1	SDL Physiology NMJ **Online SDL Evaluation)**

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Connective Tissue II (Anatomy Histology Practical) Venue-Histology Laboratory-Dr Zeneara Saqib
- Xanthoproteic Test, Millon's Test (Biochemistry Practical) Venue-Biochemistry Laboratory
- Determination of Hematocrit (HCT)(Physiology-Practical)

Topics for SGDs / CBL with Venue

- Physiology CBL: Parasthesias paraesis (Physiology Lecture Hall 05)
- Biochemistry CBL: Night Blindness (Venue: Lecture Hall No 2)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/Dr. Nazia	B	Dr. Uzma/ Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Nayab
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr. Ali Raza	Anatomy Lecture Hall No.4
B	91-180	Dr Zeneara Saqib	New Lecture Hall Complex No. 02
C	181-270	Dr. Kashif Ashraf	New Lecture Hall Complex No. 03
D	271- onwards	Dr. Sajjad	Anatomy Lecture Hall No.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Prof. Dr. Ifra Saeed (Professor of Anatomy)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Prof. Dr. Ayesha Yousaf (Professor of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Nayab (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table for Musculoskeletal-I Module Third Week
(25-04-2024 to 08-05-2024)

DATE/ DAY	8:00 AM – 09:00 AM	09:00 AM – 09: 50 AM	09:50 AM – 10:10 AM	10:10 AM – 11:00 AM	11:00 AM - 11:20 PM	11:20 PM -12:20PM	12:20 PM - 02:00PM	Home Assignment
Thursday 25-04-2024	**RESEARCH CLUB ACTIVITY** Manuscript Writing Workshop		**Break**	**ANATOMY (LGIS)** **Histology**: Bone I (Cells & types) — Prof. Dr. Ifra Saeed /Ass. Prof. Dr. Mohtasham (Even) **Embryology**: Folding of Embryo — Prof. Dr. Ayesha (Odd)	**Break**	**PHYSIOLOGY (LGIS)** Refractory period, types of action potential. Graded potential comparison with action potential — Dr Shazia (Even) NMJ, Introduction concept of motor unit. Neuro muscular transmission, synthesis & fate of acetylcholine — Prof. Dr. Samia Sarwar/ Dr Aneela (Odd)	**Practical & CBL** Venue & topic mentioned at the end. Batches, Teachers & Venue Mentioned in Table No. 1	SDL Anatomy Wrist Joint

DATE/ DAY	8:00 AM – 9:00 AM		9:00 AM – 10:00 AM		10:00 AM – 11:00 AM		11:00 AM – 12:00 PM			
Friday 26-04-2024	**QURAN TRANSLATION** Imaniat — Moulana Abdul Wahid (Even) / Mufti Naeem Sherazi (Odd)		**SEERAT MUBARIK** The Significance of Seerah Studies — Mufti Naeem Sherazi (Odd) / Moulana Abdul Wahid (Even)		**ANATOMY (LGIS)** **Embryology**: Folding of Embryo — Prof. Dr. Ayesha (Even) **Histology**: Bone I (Cells & types) — Prof. Dr. Ifra Saeed / Ass. Prof. Dr. Mohtasham (Odd)		**PHYSIOLOGY(LGIS)** NMJ, Introduction concept of motor unit. Neuro muscular transmission, synthesis & fate of acetylcholine — Prof. Dr. Samia Sarwar/ Dr Aneela (Even) Recording & propagation of action potential & factors effecting nerve conduction & Hyperpolarized state — Dr. Fareed (Odd)		SDL Physiology Concept of Degeneration and regeneration	
Saturday 27-04-2024	**SGD/ DISSECTION** Dissection & Spotting Batches, Teachers & Venue Mentioned in Table No. 2		**Break**	**ANATOMY (LGIS)** **Histology**: Fetal period — Prof. Dr. Ayesha (Even) **Embryology**: Bone II (Ossification) — Ass. Prof. Dr. Mohtasham (Even)	**Break**	**SYNCH RMU** Topic: Guidance session for Integrated Modular System			**Practical & CBL** Venue & topic mentioned at the end. Batches, Teachers & Venue Mentioned in Table No. 1	SDL Biochemistry Fluoride, Magnesium & SulphurCopper, Zinc, Selenium, Iodine, Manganese

Sports Week 29th April – 04th May, 2024

Monday 06-05-2024	**SGD/ DISSECTION** Bones of Hand Batches, Teachers & Venue Mentioned in Table No. 2		**Break**	**ANATOMY (LGIS)** **Histology**: Bone II (Ossification) — Ass. Prof. Dr. Mohtasham (Even) **Embryology**: Fetal period — Prof. Dr. Ayesha (Odd)	**Break**	**PBL SESSION –II** Muscle Weakness PBL Team		**Practical & CBL** Venue & topic mentioned at the end. Batches, Teachers & Venue Mentioned in Table No. 1	SDL Biochemistry Deficiency manifestation of thiamine
Tuesday 07-05-2024	**SGD / DISSECTION** Wrist joint	**BIOCHEMISTRY (LGIS)** Vitamin D — Fluoride, Magnesium & SulphurCopper, Zinc, Selenium,		**ANATOMY LGIS** **Embryology**: Placenta **General Anatomy**: Joints 1(types)		**PHYSIOLOGY (LGIS)** SDL: Nernst Potential & RMP & Action Potential Drugs acting on NMJ, Myasthenia Gravis, Lambart Eaton Syndrome		**Practical & CBL** Venue & topic mentioned at the end.	SDL Anatomy Elbow joint

			Iodine, Manganese		Prof. Dr. Ayesha (Odd)	Ass. Prof. Dr. Arslan (Even)				Batches, Teachers & Venue Mentioned in Table No. 1	
		Dr. Aneela (Even)	Dr. Uzma (Odd)					Dr Shazia (Even)	Prof. Dr. Samia Sarwar/Dr Aneela (Odd)		
Wednesday 08-05-2024	**SGD/ DISSECTION**				**ANATOMY LGIS**			**PHYSIOLOGY LGIS**		**Practical & CBL** Venue & topic mentioned at the end Batches, Teachers & Venue Mentioned in Table No. 1	SDL Physiology Nernst Potential & RMP & Action Potential
	Dorsum of Hand, Flexor & Extensor Retinacula Batches, Teachers & Venue Mentioned in Table No. 2				**General Anatomy**	**Embryology**		Drugs acting on NMJ, Myasthenia Gravis, Lambart Eaton Syndrome	SDL: Nernst Potential & RMP & Action Potential		
					Joints I (Types)	Placenta		Prof. Dr. Samia Sarwar /Dr Aneela (Even)	Dr Shazia (Odd)		
					Ass. Prof. Dr. Arslan (Even)	Prof. Dr. Ayesha (Odd)					

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Cartilage (Anatomy Histology Practical) Venue-Histology Laboratory-Dr Kashif Ashraf
- Tryptophan Test, Sakaguchi's Test (Biochemistry Practical) Venue-Biochemistry Laboratory
- Determination of Erythrocyte Sedimentation Rate (ESR)(Physiology-Practical)

Topics for SGDs / CBL with Venue

- Physiology CBL: Insecticide poisoning (Physiology Lecture Hall 05)
- Biochemistry SGD: Minerals (Venue: Lecture Hall No 2)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Supervised by HOD	Physiology Practical		Physiology SGD		Supervised by HOD	Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat		E	Dr. Farid/ Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain		D	Dr. Uzma
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/ Dr..Nazia	B	Dr. Uzma/Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Nayab
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr. Ali Raza	Anatomy Lecture Hall No.4
B	91-180	Dr Zeneara Saqib	New Lecture Hall Complex No. 02
C	181-270	Dr. Kashif Ashraf	New Lecture Hall Complex No. 03
D	271- onwards	Dr. Sajjad	Anatomy Lecture Hall No.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Prof. Dr. Ifra Saeed (Professor of Anatomy)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Prof. Dr. Ayesha Yousaf (Professor of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Nayab (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table for Musculoskeletal-I Module Fourth Week
(09-05-2024 to 15-05-2024)

DATE/ DAY	8:00 AM – 09:00 AM	09:00 AM – 09: 50 AM	09:50 AM – 10:10 AM	10:10 AM – 11:00 AM		11:00 AM - 11:20 PM	11:20 PM -12:20PM	12:20 PM -02:00PM	Home Assignment
Thursday 09-05-2024	**DISSECTION**		Break	**BIOCHEMISTRY LGIS**		Break	Physical Activity	**Practical & CBL** Venue & topic mentioned at the end Batches, Teachers & Venue Mentioned in Table No. 1	SDL Anatomy Wrist joint **(Online Clinical content Evaluation)**
	Dissection & Spotting Batches, Teachers & Venue Mentioned in Table No. 2			Classification & Structure of Amino Acids Isomerism	Vitamin C, Niacin & Thiamine				
				Dr. Rahat (Even)	Dr. Almas/ Dr Aneela (Odd)				
Friday 10-05-2024	Early Clinical Exposure (ECE)								
Saturday 11-05-2024	**MEDICINE**	**SGD/ DISSECTION**	Break	**ANATOMY LGIS**		Break	**COMMUNITY MEDICINE**	**Practical & CBL** Venue & topic mentioned at the end Batches, Teachers & Venue Mentioned in Table No. 1	SDL Biochemistry Niacin and Thiamin
	Osteomalacia, rickets Polyarthritis	Cross Sectional Anatomy Batches, Teachers & Venue Mentioned in Table No. 2		**Embryology**	**General Anatomy**		Accidents		
	Dr. Umer Daraz (Even) / Dr Iqra Ashraf (Odd)			Fetal membranes & multiple pregnancy	Joints II		Dr Abdul Quddos (Odd) / Dr. Maimoona (Even)		
				Prof. Dr. Ayesha (Even)	Ass. Prof. Dr. Arsalan (Odd)				
Monday 13-05-2024	**SGD / DISSECTION**		Break	**ANATOMY LGIS**		Break	**BIOCHEMISTRY (LGIS)**	**Practical & CBL** Venue & topic mentioned at the end Batches, Teachers & Venue Mentioned in Table No. 1	SDL Biochemistry Classification and structure of Amino acid
	Palm of Hand & Facial spaces Batches, Teachers & Venue Mentioned in Table No. 2			**General Anatomy**	**Embryology**		Vitamin C, Niacin & Thiamine / Classification & Structure of Amino Acids Isomerism		
				Joints II	Fetal membranes & Multiple Pregnancy		Dr. Almas/Dr Aneela (Even) / Dr. Rahat (Odd)		
				Ass. Prof. Dr. Arsalan (Even)	Prof. Dr. Ayesha (Odd)				
Tuesday 14-05-2024	**SGD/ DISSECTION**		Break	**SURGERY LGIS**		Break	**ANATOMY LGIS**	**Practical & CBL** Venue & topic mentioned at the end Batches, Teachers & Venue Mentioned in Table No. 1	SDL Anatomy Neurovascular organization of Hand
	Neurovascular Organization of Hand Batches, Teachers & Venue Mentioned in Table No. 2			Tennis elbow, Fracture of Olecranon, radius, ulna			**Embryology** / **Embryology**		
				Dr. Junaid Khan	Dr. Rana Adnan		Teratogenesis / Teratogenesis		
							Ass. Prof. Dr. Arsalan (Even) / Prof. Dr. Saima (Odd)		
Wednesday 15-05-2024	**SGD / DISSECTION**		Break	**ARTIFICIAL INTELLIGENCE/RADIOLOGY(LGIS)**		Break	**DISSECTION**	**Practical & CBL** Venue & topic mentioned at the end Batches, Teachers & Venue Mentioned in Table No. 1	SDL physiology Drugs acting on NMJ
	Cutaneous Innervation & Dermatomes of upper limb, Force & weight transmission Batches, Teachers & Venue Mentioned in Table No. 2			Interpretation of upper limb Radiograph & use of AI			Dissection & Spotting		
				Dr. Sana Yaqoob	Dr. Riffat Raja				

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Discussion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Bone (Anatomy Histology Practical) Venue-Histology Laboratory-Dr Sajjad
- Calcium &Ascorbic Acid Estimation (Biochemistry Practical) Venue-Biochemistry Laboratory
- Determination of Differential leukocyte Count (DLC)(Physiology-Practical)

Topics for SGDs / CBL with Venue

- Physiology: NMJ, Transmission across NMJ, Diseases of NMJ (Physiology Lecture Hall 05)
- Biochemistry CBL: Rickets (Venue: Lecture Hall No 2)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/ Dr. Nazia	B	Dr. Uzma/ Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/Dr. Afsheen	E	Dr. Farid/Dr. Ali Zain		C	Dr. Nayab
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr .Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr. Ali Raza	Anatomy Lecture Hall No.4
B	91-180	Dr Zeneara Saqib	New Lecture Hall Complex No. 02
C	181-270	Dr. Kashif Ashraf	New Lecture Hall Complex No. 03
D	271- onwards	Dr. Sajjad	Anatomy Lecture Hall No.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Prof. Dr. Ifra Saeed (Professor of Anatomy)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Prof. Dr. Ayesha Yousaf (Professor of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Nayab (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

No PBL Session during this week

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table for Musculoskeletal-I Module Fifth Week
(16-05-2024 to 25-05-2024)

Date & Day	
Thursday 16-05-2024	Assessment Week
Friday 17-05-2024	
Saturday 18-05-2024	
Monday 20-05-2024	
Tuesday 21-05-2024	
Wednesday 22-05-2024	
Thursday 23-05-2024	
Friday 24-05-2024	
Saturday 25-05-2024	

(Logistics Details of assessments will be notified separately)

BLOCK-II

(Musculoskeletal-II Module+ Blood and Immunity Module)

Integrated Spiral Clinically Oriented Modular Curriculum for First Year MBBS

MSK-II Module Time Table

First Year MBBS

Session 2023 - 2024

Batch- 51

MSK-II Module Team

Module Name	:	MSK- II Module
Duration of module	:	05 Weeks
Coordinator	:	Dr. Fahd Anwar
Co- Coordinator	:	Dr. Sajjad Hussain
Reviewed by	:	Module Committee

Module Committee		
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar
2.	Chairperson Anatomy & Dean Basic Sciences	Prof. Dr. Ayesha Yousaf
3.	Director DME	Prof. Dr. Ifra Saeed
4.	Chairperson Physiology	Prof. Dr. Samia Sarwar
5.	Chairperson Biochemistry	Dr. Aneela Jamil
6.	Focal Person Anatomy First Year MBBS	Asso. Prof. Dr. Mohtashim Hina
7.	Focal Person Physiology	Dr. Sidra Hamid
8.	Focal Person Biochemistry	Dr. Aneela Jamil
9.	Focal Person Pharmacology	Dr. Zunera Hakim
10.	Focal Person Pathology	Dr. Asiya Niazi
11.	Focal Person Behavioral Sciences	Dr. Saadia Yasir
12.	Focal Person Community Medicine	Dr. Afifa Kulsoom
13.	Focal Person Quran Translation Lectures	Dr. Fahad Anwar
14.	Focal Person Family Medicine	Dr. Sadia Khan

Module Task Force Team		
1.	Coordinator	Dr. Fahd Anwar (Demostrator of Physiology)
2.	DME Focal Person	Dr. Farzana Fatima
3.	Co-coordinator	Sajjad Hussain (Senior Demonstrator of Anatomy)
4.	Co-Coordinator	Dr. Almas (Senior Demonstrator Biochemistry
5.	Co-coordinator	Dr. Fareed Ullah Khan (Senior Demonstrator Physiology) & Clinical Co- Coordinatior

DME Implementation Team		
1.	Director DME	Prof. Dr. Ifra Saeed
2.	Assistant Director DME	Dr. Farzana Fatima
3.	Implementation Incharge 1st & 2nd Year MBBS	Prof. Dr. Ifra Saeed Dr. Farzana Fatima
4.	Editor	Muhammad Arslan Aslam

Discipline Wise Details of Modular Content

Block	Module	General Anatomy	Embryology	Histology	Gross Anatomy
II	• Anatomy	• Muscles • Skin	• Development of Axial Skeleton • Development of limbs • Development of muscles	• Muscles • Skin • Skin appendages	Gluteal Region to Lateral compartment of leg
	• Biochemistry	• Protein chemistry, Protein separation techniques, Collagen and Elastin			
	• Physiology	• Sarcotubular system, excitation contraction coupling mechanism inskeletal muscle. • Molecular Mechanism of skeletal muscle contraction, Rigormortis, Muscular dystrophies • Introduction to muscle physiology, Structure of sarcomere • Energetics, efficiency and types of contraction, heat production in muscle • Physiologic anatomy, types and properties of Smooth Muscle • Mechanism of smooth muscle contraction & its control • Introduction to pericardium Properties of myocardium & endocardium,myocardial action potential • Regulation of myocardial activity • Comparison of 3 types of Muscle • Introduction to CVS • Excitatory & Conducting system of heart			
	Spiral Courses				
	• Bioethics & Professionalism	• Introduction to Professional Ethics and PM&DC Code of Conduct • History of Medical Ethics			
	• Behavioural Sciences	• Communication Skills			
		• Rights and Responsibilities of patients and doctors			
	• Artificial Intelligence	• Introduction to Atificial Intelligence			
	• Family Medicine	• Communication and consultation skills in Family Medicine Practice			
	• The Holy Quran Translation	• Imaniat-I • Ibadat-II • Ibadat-III • Immaniat-II • Immaniat-III			

		• Ibadat-IV
	• Seerat Mubarak	• Importance of Hadees and Sunnah
	Vertical Integration	
	Fractures of Lower Limb (Orthopedics) x-rays of hipbone lower limb (Radiology)	
	Early Clinical Exposure (ECE)	
	• Clinical Rotations	• Cases of myopathies/ muscular dystrophy • Polymyositis/Muscle atrophy • Muscle enzyme interpretation — **Medicine** • Burns and Plastic Surgery • Management of superficial and deep burns — **Surgery** • X-Ray of Hip Bone and Hip Joint • X ray of pelvis • X ray of long Bones — **Radiology**

Categorization of Modular Content

Department of Anatomy

Category A*	Category B**		Category C***			
Embryology	**General Histology**	**General Anatomy**	**Demonstrations (SGD)**	**Practicals/Skill lab. (SKL)**	**CBL**	**SDL**
- Development of Axial Skeleton - Development of limbs - Development of muscles	- Muscles-I - Muscles-II - Skin - Appendages	- Muscles-I - Muscles-II - Skin	**Gross Anatomy:** - Hip bone - Femur - Anterolateral compartment of thigh (muscles) - Anterolateral compartment of thigh (neurovascular organization) - Medial compartment of thigh - Gluteal region (muscles) - Gluteal region (neurovascular organization) - Posterior compartment of thigh (muscles) - Posterior compartment of thigh (neurovascular organization) - Hip joint - Tibia - Fibula - Popliteal fossa - Knee joint - Anterior compartment of leg(muscles) - Anterior compartment of leg (neurovascular organization) - Lateral compartment of leg - Surface marking and radiology	- Skeletal muscles - Smooth muscle and cardiac muscle - Thick skin - Thin skin	- Hip Dislocation - Fracture of neck of femur	- Hip bone - Femur - Anterolateral compartment of thigh - Medial compartment of thigh - Gluteal region - Posterior compartment of thigh - Hip joint, Tibia & Fibula

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Anatomy

Sr. #	Designation Of Teaching Staff / Human Resource	Total number of teaching staff
1.	Professor of Anatomy department	01
2.	Associate professor of Anatomy department	01
3.	Assistant professor of Anatomy department (AP)	01
4.	Demonstrators of Anatomy department	04

Contact Hours (Faculty)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	2 * 13 = 26 hours
2.	Small Group Discussions (SGD)	2*21=42 hours
3.	Case Based Learning (CBL)	2* 2 = 4 hours
4.	Practical / Skill Lab	1.5 * 20 = 30 hours

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	1 * 13 = 13 hours
2.	Small Group Discussions (SGD)	2*21=42 hours
3.	Case Based Learning (CBL)	2* 2 = 4 hours
4.	Practical / Skill Lab	1.5 * 4 = 6 hours
5.	Self-Directed Learning (SDL)	1 * 8= 8 hours

Department of Physiology

Category A	Category B	Category C
Sarcotubular system, excitation contraction coupling mechanism inskeletal muscle (**Prof. Dr. Samia Sarwar/Dr Aneela) (Even)**	Introduction to pericardium Properties of myocardium & endocardium,myocardial action potential **(By Dr. Sidra**)	Length tension curve, Load and velocity of contraction, diseases of muscle (**By Dr. Nayab**)
		Properties of skeletal muscles, Tetanus & Fatigue (**By Dr. Nayab**)
Molecular Mechanism of skeletal muscle contraction, Rigormortis, Muscular dystrophies (**Prof. Dr. Samia Sarwar/ Dr Aneela) (Even)**	Regulation of myocardial activity **(By Dr Sidra**)	Practical: **1.** Determination of RBC count **2.** Determinati on of TLC **3.** Determination of Platelet Count **4.** Determination of ABO, Blood groups
	Introduction to muscle physiology, Structure of sarcomere **(By DrAneela) (Even)**	SGD: 1. Sliding filaments of skeletal muscle, sarcotubular system 2. Physiology of smooth muscle, mechanism of smooth muscle contraction 3. Properties of myocardium, myocardial action potential, Excitatory and conduction system of heart 4. Comparison of three types of muscle
	Physiologic anatomy, types and properties of Smooth Muscle **(ByDr Aneela)**	SDL: (ON CAMPUS) 1. Sarcotubular system, excitation contraction coupling mechanism in skeletal muscle 2. Molecular Mechanism of skeletal muscle contraction, Rigor mortis, Muscular dystrophies 3. Length tension curve, Load and velocity of contraction, diseases of muscle 4. Physiological properties and types of Smooth Muscle 5. Mechanism of smooth muscle contraction & its control 6. Regulation of myocardial activity 7. Excitatory & Conducting system of heart 8. Comparison of 3 types of muscle
	Mechanism of smooth muscle contraction & its control (By **DrAneela)**	
	Comparison of 3 types of Muscle **(By Dr Aneela)**	

	Introduction to muscle physiology, Structure of sarcomere **(By DrUzma) (Odd)**	SDL: (OFF CAMPUS) 1. Introduction to muscle physiology, Structure of sarcomere 2. Sarcotubular system, excitation contraction coupling mechanism in skeletal muscle 3. Mechanism of skeletal muscle contraction. 4. Rigor mortis, Muscular dystrophies 5. Energetics, efficiency and types of contraction 6. Properties of skeletal muscles, Tetanus & Fatigue 7. Physiological properties of Smooth Muscle 8. Myocardial Action potential
	Sarcotubular system, excitation contraction coupling mechanism inskeletal muscle **(By Dr Uzma) (Odd)**	
	Molecular Mechanism of skeletal muscle contraction , Rigormortis, Muscular dystrophies **(By Dr Uzma)(Odd)**	
	Energetics, efficiency and types of contraction, heat production in muscle **(By Dr Uzma)**	
	Introduction to CVS **(By Dr Fahad)**	
	Excitatory & Conducting system of heart **(By Dr Fahad)**	PBL=NIL
		CBL=NIL

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Physiology

Sr. #	Designation Of Teaching Staff / Human Resource	Total number of teaching staff
1.	Professor of Physiology department	01
2.	Associate professor of Physiology department	01
3.	Assistant professor of Physiology department (AP)	01 (DME)
4.	Demonstrators of Physiology department	07

Contact Hours (Faculty)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	13 * 2 = 26 hours
2.	Small Group Discussions (SGD) / (CBL)	20 * 1.5=30 hours
3.	Practical / Skill Lab	20 * 1.5 = 30 hours

Department of Biochemistry

Category A*	Category B**	Category C***			
LGIS	**LGIS**	**PBL**	**CBL**	**Practical's**	**SGD**
Protein folding and denaturation	Properties of amino acids and important peptides		Protein folding and misfolding Alpha -1 Antitrypsin deficiency	• Color tests for detection of proteins	Protein structure
	Classification of protein and function of protein			• Detection of proteins by Isoelectric pH	
	Primary sturcutres of protiens			Fractional precipitation of proteins	Collagen
Collagen and elastin	Secondary structure of protein				
Techniques of separation of protein	Tertiary and quarternary structure of proteins			Chromatography	Elastin

Category A*: By Assistant Professor and Senior Demonstrator with Postgraduate Qualification.

Category B:** By Senior Demonstrators

Category C*:** By Senior Demonstrators and Demonstrators

Teaching Staff / Human Resource of Department of Biochemistry

Sr. #	Designation Of Teaching Staff / Human Resource	Total Number Of Teaching Staff
1.	Assistant Professor of Biochemistry department	01
2.	Demonstrators of biochemistry department	06

Contact Hours (Faculty)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	5 * 2 = 10 hours
2.	Small Group Discussions (SGD)	6 * 5 = 30 hours
3.	Case Based Learning (PBL)	2 * 1 = 2 hours
4.	Practical / Skill Lab	6 * 5 = 30 hours

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	5
2.	Small Group Discussions (SGD)	6
3.	Case Based Learning (PBL)	02
4.	Practical / Skill Lab	6
5.	Self-Directed Learning (SDL)	08

Time Table For Module MSK-II (First Week)
(27-05-2024 To 01-06-2024)

Date/Day	8:00 AM - 11:20 AM	11:20 AM - 11:40 AM	11:40 AM - 12:30 PM	12:30pm – 2:00pm	Home Assignment
Monday 27-05-2024	LMS Based Assessment of Block - I	**B r e a k**	**PBL 1 (Session-I)** PBL Team	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Sarcotublar system, excitation contraction coupling mechanism in skeletal muscle

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
Tuesday 28-05-2024	Biochemistry LGIS	**PBL 1 (Session-II)**	**B r e a k**	Anatomy LGIS		Physiology LGIS		**B r e a k**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Molecular Mechanism of skeletal muscle contraction rigor mortis, Muscular dystrophies
	Properties of amino acids & important peptides Dr. Rahat Even	Collagn structure, synthesuis and related disorders Dr. Aneela Odd		General Anatomy (Muscle I) Assoc. Prof. Dr Arsalan (Even)	Histology (Skeletal Muscle) Assoc. Prof. Dr Mohtasham (Odd)	Introduction to muscle physiology,Structure ofsarcomere Dr Aneela (Even)	Introduction to muscle physiology, Structure of sarcomere Dr. Uzma (Odd)			
	PBL Team									
Wednesday 29-05-2024	SGD/Dissection			Anatomy LGIS		Physiology LGIS			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Classification of proteins
	Hip bone			Histology (Skeletal Muscle) Assoc. Prof. Dr Mohtasham Even	General Anatomy (Muscle I) Assoc. Prof. Dr Arsalan Odd	Sarcotubular system, excitation contraction coupling mechanism in skeletal muscle Prof. Dr. Samia Sarwar/ Dr Aneela (Even)	Sarcotubular system, excitation contraction coupling mechanism in skeletal muscle Dr. Uzma (Odd)			
Thursday 30-05-2024	CBL/Dissection			Radiology		Physiology LGIS			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Introduction to proteins and amino acids
	Hip bone			X rays of Hip Bone Dr. Qurat Ul Ain (Odd)	Dr. Aneeqa (Even)	Molecular Mechanism of skeletal muscle contraction rigor mortis, Muscular dystrophies Prof. Dr. Samia Sarwar/ Dr. Aneela (Even)	Molecular Mechanism of skeletal muscle contraction rigor mortis, Muscular dystrophies Dr. Uzma (Odd)			

Date/Day	8:00 AM – 09:00 AM	09:00AM – 10:00 AM	10:00 AM – 11:00 AM		11:00 AM – 12:00 PM				
Friday 31-05-2024	CBL / Dissection	Seerat Mubarak	Anatomy LGIS		Family Medicine		SDL Anatomy Hip bone.		
	Femur	Importance of Hadees and Sunnah Molana Abdul Wahid	General Anatomy (Muscle II) Assoc. Prof. Dr Arsalan (Even)	Histology (Cardiac & Smooth Muscles) Assoc. Prof. Dr Mohtasham (Odd)	Communication and consultation skills in Family Medicine Practice Dr. Sadia Azam Khan				
Saturday 01-06-2024	SGD / Dissection		**B r e a k**	Biochemistry LGIS		Physiology LGIS		**B r e a k**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Femur
	Femur / Patella			Collagn structure, synthesuis and related disorders Dr. Aneela Even	Properties of amino acids & important peptides Dr. Rahat Odd	Length tension curve, Load and velocity of contraction, diseases of muscle Dr. Nayab Even	Energetics, efficiency and types of contraction, heat production in muscle Dr. Uzma Odd			

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Anatomy Histology Practical: Skeletal Muscles (Dr. Kashif)
- Physiology Practical: Determination of Red blood cell count
- Biochemistry Practical: Color tests for detection of proteins

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/ Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/ Dr..Nazia	B	Dr. Uzma/Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Nayab
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Topics for SGDs / CBL with Venue

- Physiology SGD: Sliding filaments of skeletal muscle, sarcotubular system (Lecture Hall 5)
- Biochemistry SGD: Protein structure
- Anatomy CBL: Fracture Neck of Femur

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Farhat Jabeen (PGT Physiology)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Prof. Dr. Ifra Saeed (Professor of Anatomy)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Afsheen Batool (PGT Physiology)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Prof. Dr. Ayesha Yousaf (Professor of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Nayab (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table For Module MSK-II (Second Week)
(03-06-2024 To 08-06-2024)

Date/Day	8:00am-9:00am	9:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
Monday 03-06-2024	SGD / Dissection		Break	Anatomy LGIS		Physiology LGIS		Break	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDLPhysiology Rigor mortis, Muscular dystrophies
	Anterolateral compartment of thigh (Muscles & Neurovascular organization)			Histology (Cardiac & Smooth Muscles)	General Anatomy (Muscle II)	Energetics, efficiency and types of contraction, heat production in muscle	Length tension curve, Load and velocity of contraction, diseases of muscle			
				Assoc. Prof. Dr Mohtasham Even	Assoc. Prof. Dr Arsalan Odd	Dr. Uzma Even	Dr. Nayab Odd			
Tuesday 04-06-2024	SGD / Dissection	Anatomy LGIS		Biochemistry LGIS		Physiology LGIS			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Length tension curve, Load and velocity of contraction, diseases of muscle
	Dissection	**Embryology** (Development of Axial Skeleton)	**Histology** (Skin)	Classification and functions of proteins	Elastin structure and related disorders	Properties of skeletal muscles, Tetanus & Fatigue	Introduction to CVS			
		Prof. Dr Ayesha Even	Assoc. Prof. Dr. Mohtasham Odd	Dr. Rahat Even	Dr. Aneela / Dr. Uzma Odd	Dr. Nayab Even	Dr. Fahd Odd			
Wednesday 05-06-2024	SGD / Dissection			Biochemistry LGIS		Physiology LGIS			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Collagen and related disorders
	Medial Compartment of thigh			Elastin structure and related disorders	Classification and functions of proteins	Introduction to CVS	Properties of skeletal muscles, Tetanus & Fatigue			
				Dr. Aneela Dr. Uzma Even	Dr. Rahat Odd	Dr. Fahd Even	Dr. Nayab Odd			
Thursday 06-06-2024	SGD / Dissection			Anatomy LGIS		Physiology LGIS			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Secondary Structure of protiens
	Dissection			**Histology** (Skin)	**Embryology** (Development of Axial Skeleton)	Physiologic anatomy, types and properties of Smooth muscle	Introduction topericardium Properties of myocardium & endocardium myocardial action potential			
				Assoc. Prof. Dr Mohtasham Even	Prof. Dr Ayesha Odd	Dr. Aneela (Even)	Dr. Sidra Odd			
DATE/ DAY	**8:00 AM – 10:00 AM**		**10:00 AM – 11:00 AM**			**11:00 AM – 12:00 PM**				
Friday 07-06-2024	SGD / Dissection		Anatomy LGIS			Quran Translation		SDL Anatomy Anterolateral compartment of thigh		
	Gluteal Region (muscles)		**Histology** (Skin appendages)	**Embryology** (Development of limbs)		Imaniat-I	Ibadat-II			
			Assoc. Prof. Dr Mohtasham Even	Prof. Dr Ayesha Odd		Mufti Naeem Sherazi Even	Molana Abdul Waahid Abbasi Odd			
Saturday 08-06-2024	SGD / Dissection		Break	Anatomy LGIS		Physiology LGIS		Break	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Medial Compartment of thigh
	Gluteal Region (Neurovascular organization)			**Embryology** (Development of limbs)	**Histology** (Histology of Skin appendages)	Introduction topericardium Properties of myocardium & endocardium myocardial action potential	Physiologic anatomy, types and properties of Smooth muscle			
				Prof. Dr Ayesha Even	Assoc. Prof. Dr Mohtasham Odd	Dr. Sidra Even	Dr. Aneela Odd			

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Anatomy Histology Practical: Smooth and cardiac muscles (Dr. Kashif)
- Physiology Practical: Determination of Total leukocyte Count (TLC)
- Biochemistry practical: Detection of proteins by Isoelectric pH

Topics for SGDs / CBL with Venue

- Physiology SGD: Physiology of smooth muscle, mechanism of smooth muscle contraction
- (Lecture Hall 5)
- Biochemistry CBL: Protein folding and misfolding

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/ Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/ Dr..Nazia	B	Dr. Uzma/Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Nayab
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Prof. Dr. Ayesha Yousaf (Professor of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha Zafar (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

No PBL in this week

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Time Table For Module MSK-II (Third Week)
(10-06-2024 To 15-06-2024)

Date/Day	8:00 am – 10:00 am		10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
Monday 10-06-2024	08:00 AM – 09:00 AM	09:00 AM – 10:00 AM	B r e a k	Anatomy LGIS		Physiology LGIS		B r e a k	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Physiologic anatomy, types and properties of Smooth muscle
	SGD / Dissection	**PBL 2 (Session-I)**		Embryology (Development of Muscles)	(General Anatomy of Skin)	Mechanism of smooth muscle contraction & its control	Regulation of myocardial activity			
	Dissection	PBL Team		Prof. Dr Ayesha Even	Assoc. Prof. Dr Arsalan Odd	Dr..Aneela Even	Dr. Sidra Odd			
Tuesday 11-06-2024	SGD / Dissection			Biochemistry LGIS		Physiology LGIS			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Mechanism of smooth muscle contraction & its control
	Posterior compartment of thigh (muscles)			Primary protein structure	Protein folding and misfolding	Regulation of myocardial activity	Mechanism of smooth muscle contraction & its control			
				Dr. Rahat Even	Dr. Kashif (odd)	Dr..Sdra Odd	Dr. Aneela Odd			
Wednesday 12-06-2024	SGD / Dissection			Anatomy LGIS		Physiology LGIS			**Practical & SGD/CBL** Topics & venue mentioned at the end	Biochemistry Protein misfolding disorders
	Posterior compartment of thigh (Neurovascular organization)			(General Anatomy of Skin)	Embryology (Development of Muscles)	Excitatory &Conducting system ofheart	Comparison of 3 types of muscle			
				Assoc. Prof. Dr Arsalan Even	Prof. Dr Ayesha Odd	Dr. Fahd Even	Dr. Aneela Odd			
Thursday 13-06-2024	Early Clinical Exposure									Biochemistry Protein Denatureration

Date/ Day	08:00AM- 09:00AM	9:00 AM – 10:00 AM		10:00 AM – 11:00 AM		11:00 AM – 12:00 PM				
Friday 14-06-2024	SGD/ Dissection	Biochemistry LGIS		Quran Tranlation		**Practical & SGD/CBL** Topics & venue mentioned at the end. **Thursday Batch (13-06-2024)**		SDL Anatomy Gluteal Region		
	Tibia	Protein folding and misfolding	Protein folding and misfolding	Ibadat-II	Imaniat -I					
		Dr. Kashif (Even)	Dr.Rahat (Odd)	Mufti Naeem Sherazi Even	Molana Abdul Waahid Abbasi Odd					
Saturday 15-06-2024	CBL / Dissection		B r e a k	Biochemistry LGIS		Physiology LGIS		B r e a k	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Posterior compartment of thigh Online Clinical evaluation
	Hip joint			Protein separation techniques	Secondary protein structure	Comparison of 3 types of muscle	Excitatory &Conducting system of heart			
				Dr. Kashif Even	Dr. Rahat Odd	Dr. Aneela Even	Dr. Fahd Odd			

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Anatomy Histology Practical: Thick Skin (Dr. Kashif)
- Physiology Practical: Determination of platelet count
- Biochemistry Practical: Fractional precipitation of proteins

Topics for SGDs / CBL with Venue

- Physiology SGD: Properties of myocardium, myocardial action potential, Excitatory and conduction system of heart (Physiology Lecture 05)
- Biochemistry SGD: Collagen
- Anatomy CBL: Hip Dislocation

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/ Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/ Dr..Nazia	B	Dr. Uzma/Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Nayab
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha Zafar (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Eid Ul Adha & Summar Vacations	**17 June 2024 to 21 July 2024**

Time Table For Module MSK-II (Fourth Week)
(22-07-2024 To 27-07-2024)

Date/Day	8:00 am – 10:10 am	10:10am – 10:30am	10:30am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
Monday 22-07-2024	SGD / Dissection Fibula	B r e a k	Biochemistry LGIS Protein folding & denaturation / Tertiary and quaternary structure Dr. Aneela / Dr. Uzma even / Dr. Rahat odd	Behavioral Sciences Communication Skills Dr. Sadia Yasir	B r e a k	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Regulation of Myocardial Activity
Tuesday 23-07-2024	SGD / Dissection Popliteal Fossae		Orthopedics Fractures of Lower Limb Dr. Muhammad Hassan (Odd) / Dr. A. Rahman Rasool Akhtar (Even)	Biochemistry LGIS Tertiary and quaternary structure / Protein denaturation Dr. Rahat Even / Dr. Aneela Dr. Uzma Odd		**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Excitatory & Conducting system of heart Comparison of 3 types of muscle
Wednesday 24-07-2024	SGD / Dissection Knee joint		Physical Activity	Biomedical Ethics Introduction to Professional Ethics and PM&DC Code of Conduct Dr. Aneela Even / Dr. Kashif Odd		**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Tibia, Fibula
Thursday 25-07-2024	SGD / Dissection Anterior compartment of leg (muscles and neurovascular organization)		Artificial Intelligence Introduction to Artificial Intelligence Prof. Dr. Riaz Ahmed	Family Medicine Communication and consultation skills in Family Medicine Practice Dr. Sadia Azam Khan		**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Importance of variousclasses of protein

Date/ Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM		10:00 AM – 11:00 AM		11:00 AM – 12:00 PM		
Friday 26-07-2024	SGD / Dissection Lateral compartment of leg (muscles and neurovascular organization)	Quran Tranlation Ibadat-III Molana Abdul Waahid (Even)	Immaniat-II Mufti Naeem Sherazi (Odd)	Quran Tranlation Ibadat-IV Molana Abdul Waahid (Even)	Immaniat-III Mufti Naeem Sherazi (Odd)	**PBL 2 (Session-II)** PBL Team	SDL Biochemistry Elastin and relateddisorders	
Saturday 27-07-2024	SGD / Dissection Cross Sectional Anatomy / Radiology	B r e a k	Behavioural Sciences Rights and responsibilities of patients and doctors Dr. Mehboob Ali Shah (Odd)	Rights and responsibilities of patients and doctors Dr. Mehmood Ali (Even)	Biomedical Ehtics History of Medical Ethics Dr. Arsalan (Even) / Dr. Maria (Odd)	B r e a k	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Hip joint, Knee Joint

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Anatomy Histology Practical: Thick Skin (Dr. Kashif)
- Physiology Practical: Determination of ABO, Blood groups
- Biochemistry Practical: Chromatography

Topics for SGDs / CBL with Venue

- Physiology SGD: Comparison of three types of muscle (Physiology Lecture 05)
- Biochemistry CBL: Alpha-1 Antitrypsin Deficiency

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/ Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/ Dr..Nazia	B	Dr. Uzma/Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Nayab
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha Zafar (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

No PBL in this week

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Schedule for LMS Based Weekly Online Assessments for First Year MBBS (Musculoskeletal-II Module)

The online assessment for Musculoskeletal -II Module for First Year MBBS will be as per following schedule:

Class	Module	Day & Date	Time of Assessment	Focal person	Department Responsible
First Year MBBS	MSK-II Module	Monday 3rd June,2024	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 4th June,2024	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 5th June,2024	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry
		Monday 10th June,2024	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 11th June,2024	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 12th June,2024	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry

Assessment Week
(29-07-2024 To 03-08-2024)

Date & Day	8:00 AM – 02:00 PM
Monday 29-07-2024	Assessment Week
Saturday 30-07-2024	
Monday 31-07-2024	
Tuesday 01-08-2024	
Wednesday 02-08-2024	
Thursday 03-08-2024	

Integrated Clinically Oriented Modular Curriculum for First Year MBBS

Blood and Immunity Module Time Table

First Year MBBS

Session 2023-2024

Batch- 51

Blood and Immunity Module Team

Module Name	:	Blood and Immunity Module
Duration of module	:	05 Weeks
Coordinator	:	Dr. Rahat
Co-coordinator	:	Dr. Kamil Tahir
Reviewed by	:	Module Committee

Module Committee		
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar
2.	Chairperson Anatomy & Dean Basic Sciences	Prof. Dr. Ayesha Yousaf
3.	Director DME	Prof. Dr. Ifra Saeed
4.	Chairperson Physiology	Prof. Dr. Samia Sarwar
5.	Chairperson Biochemistry	Dr. Aneela Jamil
6.	Focal Person Anatomy First Year MBBS	Asso. Prof. Dr. Mohtashim Hina
7.	Focal Person Physiology	Dr. Sidra Hamid
8.	Focal Person Biochemistry	Dr. Aneela Jamil
9.	Focal Person Pharmacology	Dr. Zunera Hakim
10.	Focal Person Pathology	Dr. Asiya Niazi
11.	Focal Person Behavioral Sciences	Dr. Saadia Yasir
12.	Focal Person Community Medicine	Dr. Afifa Kulsoom
13.	Focal Person Quran Translation Lectures	Dr. Fahad Anwar
14.	Focal Person Family Medicine	Dr. Sadia Khan

Module Task Force Team		
1.	Coordinator	Dr. Rahat (APWMO of Biochemistry)
2.	DME Focal Person	Dr. Farzana Fatima
3.	Co-coordinator	Dr. Ali Raza (Senior Demonstrator of Anatomy)
4.	Co-Coordinator	Dr. Uzma Zafar (APWMO of Biochemistry)
5.	Co-coordinator	Dr. Kamil Tahir (Senior Demonstrator Physiology)

DME Implementation Team		
1.	Director DME	Prof. Dr. Ifra Saeed
2.	Assistant Director DME	Dr. Farzana Fatima
3.	Implementation Incharge 1st & 2nd Year MBBS	Prof. Dr. Ifra Saeed Dr. Farzana Fatima Dr. Saira Aijaz
4.	Editor	Muhammad Arslan Aslam

Discipline Wise Details of Modular Contents

Block	Subjects	Embryology	Histology	Gross Anatomy	CBL	SDL
II	• Anatomy	• Development of pharyngeal arches • Development of spleen • Development of thymus	• Spleen • Thymus • Lymph nodes • Tonsils	Lower Limb • Posterior compartment of leg to foot	• Ankle sprain • Flat foot	• Posterior compartment of leg and flexor retinaculum • Neurovascular organization of posterior compartment of leg • Foot joints • Ankle joints • Sole of foot • Spleen • Gait cycle
	• Physiology	• Plasma Proteins • Stages of erythropoiesis & factors affecting erythropoiesis • Hemoglobin & Hemoglobinopathies, Iron Metabolism • Red cell fragility, ESR & Red cell indices, Anemia & polycythemia • Fate of RBCs & Jaundice • Types of immunity, Physiology of innate immunity tolerance & auto immunity • Physiology of acquired immunity B-Cells • Physiology of acquired immunity T-Cells. Allergy and Hypersensitivity reactions, Auto-immune diseases and AIDS • Composition of blood & Hemopoiesis • WBCs classification & formation. Neutrophils, Eosinophils & Basophils and their properties • Platelet formation & function. hemostasis, blood coagulation tests (BT, CT, PT, APTT and INR • Blood coagulation • Concept of intravascular anticoagulants and bleeding disorders (Vit K deficiency, hemophilia and thrombocytopenia) • Thromboembolic condition (DVT, Pulmonary Embolism, DIC) Anticoagulant therapy (Heparin, warfarin, Prevention of blood clotting outside the body) • Physiological mechanism of temperature regulation • Role of Hypothalamus in temperature regulation • Disorders of temperature regulation (Fever, Heat stroke, Exposure of body to extreme cold) • ABO & Rh Blood grouping system • Rh Blood grouping system and Erythroblastosis fetalis • Blood transfusion hazards • Tissue and organ transplantations				
	• Biochemistry	• Heme synthesis				

		• Porphyria • Breakdown of hemoglobin • Jaundice • Blood • Structure of hemoglobin and myoglobin • Types of Hemoglobin • Oxygen dissociation curve. • Abnormalities in Hemoglobin. • Hemoglobinopathies • Plasma proteins • Acute phase proteins & Albumin • Haptoglobin and transferring. • Ferritin and hemosiderin • Ceruloplasmin. • Antiproteases and amyloidosis • Immunoglobulins • AIDs • Folic acid. • Vitamin B12 • Iron
	Spiral Courses	
	• Bioethics & Professionalism	• Activity I • Activity II • Activity III
	• Research Club Activity (IUGRC)	• Student practical session no 3
	• Family Medicine	• Aproach to a Patient Aneamia
	• The Holy Quran Translation	•
	Vertical components	
	• Pathology	• Mediators of Inflammation • (Medicine)
	• Medicine	• Anemia • Jaundice
	• Gynae & Obs	• Rh Incompatibility And Its Significance -Immune
	Early Clinical Exposure (ECE)	

Categorization of Modular Contents

Anatomy

Category A*	Category B**	Category C***			
		Demonstrations / SGD	**CBL**	**SKL/Practical's**	**Self-Directed Learning (SDL)**
• General Embryology	• General Histology	• Posterior compartment of leg and flexor retinaculum • Posterior compartment of leg (Neurovascular organization) • Bones of the foot • Dorsum of foot (Muscles and Neurovascular organization) • Ankle joint (ankle sprain) • Joints of foot • Sole of foot (Muscles) • Sole of foot (Neurovascular organization) • Arches of foot • Spleen • Thymus and tonsils • Radiology and surface marking	• Ankle sprain • Flat foot	• Lymph node • Spleen • Thymus • Tonsil	• Posterior compartment of leg and flexor retinaculum • Neurovascular organization of posterior compartment of leg • Foot joints • Ankle joints • Sole of foot • Spleen • Gait cycle

Category A*: By Professor

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resources of Department of Anatomy

Sr. #	Designation of Teaching Staff / Human Resource	Total number of teaching staff
1.	Professor of Anatomy Department	01
2.	Associate Professor	01
3.	Assistant Professor of Anatomy Department (AP)	01
4.	Demonstrators of Anatomy Department	04

Contact Hours (Faculty)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	2 * 04 = 08 hours
2.	Small Group Discussions (SGD)	2*16 =32 hours
3.	Practical / Skill Lab	1.5 * 20 = 30 hours

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	1 * 4 = 04 hours
2.	Small Group Discussions (SGD)	2*16=32 hours
3.	Practical / Skill Lab	1.5 * 4 = 6 hours
4.	Self-Directed Learning (SDL)	2* 4 = 8 hours

Physiology

Category A*	Category B**	Category C***				
LGIS	**LGIS**	**PBL**	**CBL**	**Practical's**	**SGD**	**SDL**
• Monocytes - macrophage system & lymphocytes • Process of inflammation and Lines of defense during inflammation	• Plasma Proteins • Stages of erythropoiesis & factors affecting erythropoiesis • Hemoglobin & Hemoglobinopathies, Iron Metabolism • Red cell fragility, ESR & Red cell indices, Anemia & polycythemia • Fate of RBCs & Jaundice • Types of immunity, Physiology of innate immunity tolerance & auto immunity • Physiology of acquired immunity B-Cells • Physiology of acquired immunity T-Cells. Allergy and Hypersensitivity reactions, Auto-immune diseases and AIDS • Composition of blood & Hemopoiesis • WBCs classification & formation. Neutrophils, Eosinophils & Basophils and their properties • Platelet formation & function. hemostasis, blood coagulation tests (BT, CT, PT, APTT and INR • Blood coagulation • Concept of intravascular anticoagulants and bleeding disorders (Vit K deficiency, hemophilia and thrombocytopenia) • Thromboembolic condition (DVT, Pulmonary Embolism, DIC) Anticoagulant therapy (Heparin, warfarin, Prevention of			1. Determination of Rh blood group 2. Determination of Clotting time (CT) 3. Determination of Bleeding time (BT) 4. Recording of Body Temperature	1. Functions & composition of blood, Hemopoiesis and Bone marrow 2. Hemoglobin & Hemoglobinopathies, Iron Metabolism 3. Platelet formation & function. hemostasis, blood coagulation tests (BT, CT, PT, APTT and INR) 4. Physiological mechanism of temperature regulation 5. Stages Of Erythropoiesis Factors Affecting Erythropoiesis (First week) 6. Physiology of WBC (third week) 7. Physiology of platelets (Fourth week) 8. Blood transfusion hazards. Tissue and organ transplantations (Fifth week) 9. Disorders of temperature regulation (Fever, Heat stroke, Exposure of body to extreme cold) (Fifth	1. SDL On Campus Platelet formation & function. hemostasis, blood coagulation tests (BT, CT, PT, APTT and INR) 2. Concept of intravascular anticoagulants and bleeding disorders (Vit K deficiency, hemophilia and thrombocytopenia) 3. SDL Off Campus Composition of blood 4. Functions of Plasma Proteins 5. WBCs classification & formation. Neutrophils, Eosinophils & Basophils and their properties 6. Monocytes - macrophage system & lymphocytes 7. Process of inflammation and Lines of defense during inflammation 8. Red cell fragility,

	blood clotting outside the body) • Physiological mechanism of temperature regulation • Role of Hypothalamus in temperature regulation • Disorders of temperature regulation (Fever, Heat stroke, Exposure of body to extreme cold) • ABO & Rh Blood grouping system • Rh Blood grouping system and Erythroblastosis fetalis • Blood transfusion hazards. Tissue and organ transplantations				week)	ESR & Red cell indices, Anemia & polycythemia 9. Blood coagulation 10. ABO & Rh Blood grouping system

Category A*: By HOD and Associate Professor

Category B:** By All (HOD, Associate, Assistant, Senior Demonstrators)

Category C*:** By Demonstrators and Residents

Teaching Staff / Human Resource of Department of Physiology

Sr. #	Designation Of Teaching Staff / HumanResource	Total number ofteaching staff
1.	Professor of physiology department	01
2.	Associate professor of physiology department	01
3.	Assistant professor of physiology department (AP)	01
4.	Demonstrators of physiology department	07
5.	Residents of physiology department (PGTs)	06

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of TeachingStrategies	Total Hours
1.	Large Group Interactive Session (LECTURES)	11 x 2 = 22 hours
2.	Small Group Discussions (SGD)/CBL	20 x 1.5 hour = 30 hours + 6 hours= 36 hours
3.	Problem Based Learning (PBL)	---
4.	Practical / Skill Lab	20 x 1.5 hour = 30 hours
5.	Self-Directed Learning (SDL)	2x1 = 2hours (on campus) 8x1 = 8 hours (off campus)

Biochemistry

Category A*	Category B**	Category C***			
LGIS	**LGIS**	**PBL**	**CBL**	**Practical's**	**SGD**
• Heme synthesis • Porphyria • Breakdown of hemoglobin • Jaundice	• Blood • Structure of hemoglobin and myoglobin • Types of Hemoglobin • Oxygen dissociation curve. • Abnormalities in Hemoglobin. • Hemoglobinopathies • Plasma proteins • Acute phase proteins & Albumin • Haptoglobin and transferring • Ferritin and hemosiderin • Ceruloplasmin. • Antiproteases and amyloidosis • Immunoglobulins • AIDs • Folic acid. • Vitamin B12 • Iron		• Thalassemia • Jaundice	• Estimation of Bilirubin by spectrophometer • Estimation of total protein by spectrophometer • How to draw blood technique • Haemin crystals	• Types of Hb and oxygen dissociation curve • Iron

Category A*: By HOD and APWMO with Postgraduate Qualification

Category B:** By All Senior Demonstrators

Category C*:** By All Demonstrators

Teaching Staff / Human Resource of Department of Biochemistry

Sr. #	Designation of Teaching Staff / Human Resource	Total number of teaching staff
1	Assistant professor of biochemistry department (AP)	01
2	Demonstrators of biochemistry department	07

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (student)
1.	Large Group Interactive Session (LECTURES)	2 * 12 = 24 hours	12
2.	Small Group Discussions (SGD)	1.5 * 5*4 = 30 hours	06
3.	Problem Based Learning (PBL)	Zero	zero
4.	Practical / Skill Lab	1.5 * 5*4 = 30 hours	6
5.	Self-Directed Learning (SDL)	----------	06

First Year Blood and Immunity Module (First Week)
(29-07-2024 To 03-08-2024)

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignments(2HRS)
29-07-2024 MONDAY	**SGD/DISSECTION**			**PBL 1 (SESSION – I)**	**PHYSIOLOGY (LGIS)**			
	Posterior Compartment of Leg & Flexor Retinaculum			PBL Team	Composition of blood & Hemopoiesis / Dr Sheena (Even)	Plasma Proteins / Dr. Sidra (Odd)	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Composition of blood
30-07-2024 TUESDAY	**SGD/DISSECTION**			**BIOCHEMISTRY (LGIS)**	**PHYSIOLOGY (LGIS)**			
	Posterior Compartment of Leg (Neurovascular Organization)			Types of Hb & O2 Dissociation Curve / Dr. Kashif (Even)	Heme Synthesis & Porphyria / Dr. Romessa (Odd)	Plasma Proteins / Dr. Sidra (Even); Composition of blood & Hemopoiesis / Dr Sheena (Odd)	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Functions of plasma protein
31-07-2024 WEDNESDAY	**SGD/DISSECTION**		**Break**	**PHYSIOLOGY (LGIS)**	**PHYSIOLOGY (LGIS)**	**Break**	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Biochemistry Structure of hemoglobin, Types of Hb & O2 Dissociation Curve
	Bones of the foot			Stages of erythropoiesis & factors affecting erythropoiesis / Dr. Sidra (Even); WBCs classification & formation. Neutrophils, Eosinophils & Basophils and their properties / Dr Sheena (Odd)	WBCs classification & formation. Neutrophils, Eosinophils & Basophils and their properties / Dr Sheena (Even); Stages of erythropoiesis & factors affecting erythropoiesis / Dr. Sidra (Odd)			
01-08-2024 THURSDAY	**PATHOLOGY (LGIS)**	**PBL 1 (SESSION – II)**		**BIOCHEMISTRY (LGIS)**	**PHYSIOLOGY (LGIS)**		Practical & SGD/CBL Topics & venue mentioned at the end	SDL Anatomy Bones of Foot
	Mediators of inflammation / Dr. Saeed (Even); Dr. Iqbal (Odd)	PBL Team		Heme Synthesis & Porphyria / Dr. Romessa (Even); Types of Hb and structure of Hb and myoglobin / Dr. Kashif (Odd)	Monocytes - macrophage system & lymphocytes / Prof. Dr. Samia Sarwar / Dr. Sheena (Even); Hemoglobin & Hemoglobinopathies, IronMetabolism / Dr. Sidra (Odd)			
02-08-2024 FRIDAY	**8:00 AM – 9:00 AM**	**9:00 AM – 10:00AM**	**10:00AM– 11:00AM**		**11:00AM—12:00PM**			
	FAMILY MEDICINE	**QURAN TRANSLATION**	**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		Biochemistry SDL Heme Synthesis & Porphyria	
	Anemia / Dr. Umer Daraz (Even); Dr. Iqra (Odd)	Muaamlaat-3 / Mufti Naeem (Even); Muaasharat-1 / Abdul Wahid (Odd)	Hemoglobinopathies / Dr Uzma Zafar (Even); Degradation & Jaundice / Dr. Aneela (Odd)		Hemoglobin & Hemoglobinopathies, Iron Metabolism / Dr. Sidra (Even); Monocytes - macrophage system & lymphocytes / Prof. Dr. Samia Sarwar / Dr. Sheena(Odd)			
03-08-2024 SATURDAY	**SGD/DISSECTION**		**Break**	**ANATOMY (LGIS)**	**SDL**	**Break**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Posterior Compartment of Leg
	Dorsum of Foot (Muscles and Neurovascular Organization)			Development of pharyngeal arches / Prof. Dr. Ayesha Yousaf (even); Development and histology of Lymph node / Dr. Mohtasham Hina (Associate prof.) (odd)				

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Lymph node (Anatomy Histology Practical) Venue-Histology laboratory (Dr. Kashif)
- Draw of blood technique (Biochemistry Practical) Venue-Biochemistry laboratory
- Determination of Rh blood group (Physiology –practical) Venue – Physiology Lecture Hall No 5

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD		Biochemistry SGD		
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/Dr. Ali Zain	A	Dr. Sheena/ Dr. Ali Zain	D	Dr. Uzma	Supervised by HOD
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/Dr.Nazia	B	Dr. Uzma/ Dr. Nazia	E	Dr. Almas	
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd	A	Dr. Romessa	
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain	C	Dr. Nayab	
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen	B	Dr. Rahat	

Topics for SGDs / CBL with Venue

- Physiology SGD - Functions & composition of blood, Hemopoiesis and Bone marrow (Basement))
- Biochemistry SGD: Types of Hb and oxygen dissociation curve (Venue: Lecture Hall No 2)

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-90	Dr Zeneara Saqib	New Lecture Hall Complex No. 02
B	91-180	Dr. Sajjad Hussain	Anatomy Lecture Hall No.3
C	181-270	Dr. Ali Raza	Anatomy Lecture Hall No.4
D	271- onwards	Dr. Qurat ul Ain	New Lecture Hall Complex No. 03
Supervised by Prof. Dr. Ayesha Yousaf			

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Rahat Afzal (Senior Demonstrator Biochemistry)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall Complex Lecture Theater # 03	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

First Year Blood and Immunity Module (Second Week)
(12-08-2024 To 17-08-2024)

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignments(2HRS)
12-08-2024 MONDAY	**SGD/DISSECTION**		**Break**	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology WBCs classification & formation. Neutrophils, Eosinophils & Basophils and their properties
	Ankle Joint (Ankle Sprain)			Development of pharyngeal arches	Development and histology of Lymph Node	Process of inflammation and Lines of defense during inflammation	Red cell fragility, ESR & Red cell indices, Anemia & polycythemia			
				Prof. Dr. Ayesha Yousaf (Odd)	Dr. Mohtasham Hina (Associate prof.) (Even)	Prof. Dr. Samia Sarwar / Dr. Sheena (Even)	Dr. Sidra (Odd)			
13-08-2024 TUESDAY	**DISSECTION/CBL**			**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Monocytes -macrophage system & lymphocytes
	Joints of Foot			Hemoglobinopathies	Heme degradation & Jaundice	Red cell fragility, ESR & Red cell indices, Anemia & polycythemia	Process of inflammation and Lines of defense during inflammation			
				Dr. Uzma (Odd)	Dr. Aneela (Even)	Dr. Sidra (Even)	Prof. Dr. Samia Sarwar / Dr. Sheena (Odd)			
14-08-2024 WEDNESDAY	**Independence Day**									
15-08-2024 THURSDAY	**SDL**	**PBL 2 (SESSION – I)**		**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Anatomy Neurovascular organization of posterior compartment of leg
		PBL Team		Aids	Plasma proteins functions, Albumin	Fate of RBCs & Jaundice	Platelet formation & function. hemostasis, blood coagulation tests (BT, CT, PT, APTT and INR)			
				Dr. Aneel / Dr. Almas (Even)	Dr. Kashif (Odd)	Dr. Sidra (Odd)	Dr. Fareed (Even)			
16-08-2024 FRIDAY	Early Clinical Exposure (ECE)									
17-08-2024 SATURDAY	**SGD/DISSECTION**		**Break**	**BIOCHEMISTRY (LGIS)**		**PBL 2 (SESSION – II)**		**Break**	Practical & SGD/CBL Topics & venue mentioned at the end	Biochemistry SDL Plasma proteins functions, Albumin, AIDs
	Dissection			Aids	Plasma proteins functions, Albumin	PBL Team				
				Dr. Aneel / Dr. Almas (Odd)	Dr. Kashif (Even)					

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Spleen (Anatomy Histology Practical) Venue-Histology Laboratory (Dr. Kashif)
- Estimation of bilirubin by Spectrophotometer (Biochemistry Practical) Venue- Biochemistry Laboratory
- Determination of Clotting time (CT) (Physiology Practical) Venue – Physiology Lab

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD		Biochemistry SGD		
	Batch	Teacher Name	Batch	Teacher Name	Supervised by HOD	Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Supervised by HOD
Monday	C	Supervised by HOD	B	Dr. Rahat		E	Dr. Farid/Dr. Ali Zain	A	Dr. Sheena/ Dr. Ali Zain	D	Dr. Uzma	
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/Dr.Nazia	B	Dr. Uzma/ Dr. Nazia	E	Dr. Almas	
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd	A	Dr. Romessa	
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain	C	Dr. Nayab	
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen	B	Dr. Rahat	

Topics for SGDs / CBL with Venue

- Physiology SGD- Hemoglobin & Hemoglobinopathies, Iron Metabolism (Venue: Lecture Hall No 5)
- Biochemistry CBL – Thalassemia (Lecture Hall No 2)
- Anatomy CBL: Ankle Sprain

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Zeneara Saqib	New Lecture Hall Complex No. 02
B	91-180	Dr. Sajjad Hussain	Anatomy Lecture Hall No.3
C	181-270	Dr. Ali Raza	Anatomy Lecture Hall No.4
D	271- onwards	Dr. Qurat ul Ain	New Lecture Hall Complex No. 03
Supervised by Prof. Dr. Ayesha Yousaf			

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Rahat Afzal (Senior Demonstrator Biochemistry)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall Complex Lecture Theater # 03	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

First Year Blood and Immunity Module (Third Week)
(19-08-2024 To 24-08-2024)

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignments(2HRS)
19-08-2024 MONDAY	**SGD/DISSECTION**		**Break**	**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy joints of Foot
	Sole of Foot (Muscles)			Vit K	Haptoglobin, ceruloplasmin	Blood coagulation	Types of immunity, Physiology of innate immunity tolerance & auto immunity			
				Dr. Aneel / Dr. Almas (Even)	Dr. Kashif (Odd)	Dr. Fareed (Even)	Dr. Sidra (Odd)			
20-08-2024 TUESDAY	**SGD/DISSECTION**			**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Process of inflammation and Lines of defense during inflammation
	Sole of Foot (Neurovascular Organization)			Vitamin k	Haptoglobin, ceruloplasmin	Types of immunity, Physiology of innate immunity tolerance & auto immunity	Blood coagulation			
				Dr. Aneel / Dr. Almas (Even)	Dr. Kashif (Odd)	Dr. Sidra (Even)	Dr. Fareed (Odd)			
21-08-2024 WEDNESDAY	**SGD/DISSECTION**			**BIOMEDICAL ETHICS**		**PHYSIOLOGY (LGIS)**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Red cell fragility, ESR & Red cell indices, Anemia & polycythemia
	Dissection			Activity 1		Concept of intravascular anticoagulants and bleeding disorders (Vit K deficiency, hemophilia and thrombocytopenia)	Physiology of acquired immunity B-Cells			
						Dr. Fareed (Even)	Dr. Sidra (Odd)			
22-08-2024 THURSDAY	**DISSECTION / CBL**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Biochemistry Structure of hemoglobin Folic acid & Vitamin B-12
	Arches of Foot			Histology & Development of Thymus and Tonsils	Histology and Development of Spleen	Physiology of acquired immunity B-Cells	Concept of intravascular anticoagulants and bleeding disorders (Vit K deficiency, hemophilia and thrombocytopenia)			
				Dr. Mohtasham Hina (Associate prof.) (Even)	Prof. Dr. Ayesha Yousaf / Assoc. Prof. Dr. Arslan (Odd)	Dr. Sidra (Even)	Dr. Fareed (Odd)			

Date/Day	08:00am– 10:00am				10:00am – 11:00am		11:00am – 12:00pm				
23-08-2024 FRIDAY	**BIOCHEMISTRY (LGIS)**		**QURAN TRANSLATION**		**PHYSIOLOGY (LGIS)**		**PHYSIOLOGY (LGIS)**		SDL Biochemistry Heme synthesis Vitamin K		
	Vitamin 9 and vitamin B12	Transferrin, ferritin	Muaamlaat-3	Muaasharat-1	Thromboembolic condition (DVT, Pulmonary Embolism, DIC) Anticoagulant therapy (Heparin, warfarin, Prevention of blood clotting outside the body)	Physiology of acquired immunity T-Cells. Allergy and Hypersensitivity reactions, Auto-immune diseases and AIDS ls. Ac	Physiology of acquired immunity T-Cells. Allergy and Hypersensitivity reactions, Auto-immune diseases and AIDS	Thromboembolic condition (DVT, Pulmonary Embolism, DIC) Anticoagulant therapy (Heparin, warfarin, Prevention of blood clotting outside the body)			
	Dr. Almas (Even)	Dr.Kashif (Odd)	Mufti Naeem (Odd)	Abdul Wahid (Even)	Dr. Fareed (Even)	Dr. Sidra (Odd)	Dr. Sidra (Even)	Dr. Fareed (Odd)			
24-08-2024 SATURDAY	**SGD/DISSECTION**				**ANATOMY(LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Anatomy Sole of Foot Online Clinical Evaluation
	Gait cycle.				Histology & Development of Thymus and Tonsils	Histology and Development of Spleen	Thromboembolic condition (DVT, Pulmonary Embolism, DIC) Anticoagulant therapy (Heparin, warfarin, Prevention of blood clotting outside the body)	Physiology of acquired immunity T-Cells. Allergy and Hypersensitivity reactions, Auto-immune diseases and AIDS			
					Dr. Mohtasham Hina (Associate prof.) (Odd)	Prof. Dr. Ayesha Yousaf / Assoc. Prof. Dr. Arslan (Even)	Dr. Fareed (Even)	Dr. Sidra (Odd)			

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Thymus (Anatomy Histology Practical) Venue-Histology Laboratory (Dr. Kashif)
- Quantitative estimation of serum total proteins (Biochemistry Practical) Venue- Biochemistry Laboratory
- Determination of Bleeding time (BT) (Physiology Practical) Venue – Physiology Lab

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Supervised by HOD	Physiology Practical		Physiology SGD		Biochemistry SGD		Supervised by HOD
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	
Monday	C	Supervised by HOD	B	Dr. Rahat		E	Dr. Farid/Dr. Ali Zain	A	Dr. Sheena/ Dr. Ali Zain	D	Dr. Uzma	
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/Dr.Nazia	B	Dr. Uzma/ Dr. Nazia	E	Dr. Almas	
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd	A	Dr. Romessa	
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain	C	Dr. Nayab	
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen	B	Dr. Rahat	

Topics for SGDs / CBL with Venue

- Physiology SGD- Platelet formation & function. hemostasis, blood coagulation tests (BT, CT, PT, APTT and INR (Venue: Lecture Hall No 5)
- Biochemistry CBL – Jaundice (Lecture Hall No 2)
- Anatomy CBL: Flate Foot

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Zeneara Saqib	New Lecture Hall Complex No. 02
B	91-180	Dr. Sajjad Hussain	Anatomy Lecture Hall No.3
C	181-270	Dr. Ali Raza	Anatomy Lecture Hall No.4
D	271- onwards	Dr. Qurat ul Ain	New Lecture Hall Complex No. 03
Supervised by Prof. Dr. Ayesha Yousaf			

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Rahat Afzal (Senior Demonstrator Biochemistry)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall Complex Lecture Theater # 03	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad Hassan (Demonstrator Physiology)
No PBL Session during this week									

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

First Year Blood and Immunity Module (Fourth Week)
(26-08-2024 To 31-08-2024)

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignments(2HRS)
26-08-2024 MONDAY	**SGD/DISSECTION**		Break	**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		Break	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Spleen
	Thymus, Tonsils and Spleen			Vitamin 9 and vitamin B12	Transferrin, ferritin	Physiological mechanism of temperature regulation	ABO & Rh Blood grouping system			
				Dr. Aneela /Dr. Almas Odd)	Dr Kashif (Even)	Dr. Shazia (Even)	Dr. Fahad (Odd)			
27-08-2024 TUESDAY	**MEDICINE (LGIS)**	**BIO MEDICAL ETHICS**		**PHYSIOLOGY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Red cell fragility, ESR & Red cell indices, Anemia & polycythemia
	Jaundice	**(CLUB ACTIVITY 2)**		Rh Blood grouping system and Erythroblastosis fetalis	Role of Hypothalamus in temperature regulation	Role of Hypothalamus in temperature regulation	Rh Blood grouping system and Erythroblastosis fetalis			
	Dr. Umer Daraz (Even) / Dr. Iqra (Odd)			Dr. Fahad (Even)	Dr. Shazia (Odd)	Dr. Shazia (Even)	Dr. Fahad (Odd)			
28-08-2024 WEDNESDAY	**SGD/DISSECTION**		Break	**PHYSIOLOGY (LGIS)**		**PHYSIOLOGY (LGIS)**		Break	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Monocyte & Macrophage System
	Radiology, Surface Anatomy & Cross-Sectional Anatomy			reacti Disorders of temperature regulation (Fever, Heat stroke, Exposure of body to extreme cold)	Blood transfusion hazards. Tissue and organ transplantations	Disorders of temperature regulation (Fever, Heat stroke, Exposure of body to extreme cold)	Blood transfusion hazards. Tissue and organ transplantations			
				Dr. Shazia (Odd)	Dr. Fahad (Even)	Dr. Shazia (Even)	Dr. Fahad (Odd)			
29-08-2024 THURSDAY	**GYNAE OBS (LGIS)**	**PHYSIOLOGY SUPERVISED SDL)**		**JOINT SESSION**					Practical & SGD/CBL Topics & venue mentioned at the end	SDL Biochemistry Immunoglobulins, iron
	Rh incompatibility and its significance	ABO & Rh Blood grouping system		Thalasimia						
	Dr. Shama (Even) / Dr. Ruqqia (Odd)	Dr. Shazia (Odd) / Dr. Fahad (Even)								
30-08-2024 FRIDAY	**8:00 AM – 9:00 AM**	**9:00 AM – 10:00AM**		**10:00AM– 11:00AM**		**11:00AM—12:00PM**				
	BIO MEDICAL ETHICS	**QURAN TRANSLATION**		**PHYSIOLOGY SUPERVISED SDL**		**BIOCHEMISTRY (LGIS)**		SDL Anatomy Tonsil		
	(CLUB ACTIVITY-3)	Muaasharat-2 / Muaamlaat-4		Blood transfusion hazards. Tissue and organ transplantations		Immunoglobulins	Iron			
		Abdul Wahid (Even) / Mufti Naeem (Odd)		Dr. Shazia (Even)	Dr. Fahad (Odd)	Dr. Rahat (Even)	Dr. Uzma (Odd)			
31-08-2024 SATURDAY	**SGD/DISSECTION**		Break	**BIOCHEMISTRY (LGIS)**		Practical & SGD// CBLof 14th August batch Topics & venue mentioned at the end		Break	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Anatomy Gait Cycle Online Clinical Evaluation
	Dissection			Immunoglobulins	Iron					
				Dr. Rahat (Odd)	Dr. Uzma(Even)					

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Tonsils (Anatomy Histology Practical) Venue-Histology Laboratory (Dr. Kashif)
- Haemin crystals (Biochemistry Practical) Venue- Biochemistry Laboratory
- Recording of Body temperature (BT) (Physiology Practical) Venue – Physiology Lab

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD		Biochemistry SGD		
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/Dr. Ali Zain	A	Dr. Sheena/ Dr. Ali Zain	D	Dr. Uzma	Supervised by HOD
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/Dr.Nazia	B	Dr. Uzma/ Dr. Nazia	E	Dr. Almas	
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd	A	Dr. Romessa	
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain	C	Dr. Nayab	
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen	B	Dr. Rahat	

Topics for SGDs / CBL with Venue

- Physiology SGD- Physiological mechanism of temperature regulation (Venue: Lecture Hall No 5)
- Biochemistry CBL – iron (Lecture Hall No 2)

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Zeneara Saqib	New Lecture Hall Complex No. 02
B	91-180	Dr. Sajjad Hussain	Anatomy Lecture Hall No.3
C	181-270	Dr. Ali Raza	Anatomy Lecture Hall No.4
D	271- onwards	Dr. Qurat ul Ain	New Lecture Hall Complex No. 03
Supervised by Prof. Dr. Ayesha Yousaf			

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Rahat Afzal (Senior Demonstrator Biochemistry)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall Complex Lecture Theater # 03	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad Hassan (Demonstrator Physiology)
No PBL Session during this week									

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Schedule for LMS Based Weekly Online Assessments for First Year MBBS (Blood & Immunity Module)

The online assessment for Blood & Immunity Module for First Year MBBS will be as per following schedule:

Class	Module	Day & Date	Time of Assessment	Focal person	Department Responsible
First Year MBBS	Blood & Immunity Module	Monday 12th August ,2024	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 13th August ,2024	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 15th August,2024	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry
		Monday 19th August,2024	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 20th August,2024	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Thursday 21st August,2024	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry
		Monday 26th August,2024	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 27th August,2024	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Thursday 28th August,2024	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry

First Year Blood and Immunity Module (Fifth Week)
(02-09-2024 To 07-09-2024)

Date/time	9:00am - 12:00pm	12:00-02:00pm
02-09-2024 MONDAY	Assessment Week	
03-09-2024 TUESDAY		
04-09-2024 WEDNESDAY		
05-09-2024 THURSDAY		
06-09-2024 FRIDAY		
07-09-2024 SATURDAY		

Note: Timetable Subject to Change According To The Current Circumstances

(Logistic details of Assessments will be notified separately)

BLOCK-I

(Cardiovascular System Module + Respiratory Module)

Integrated Clinically Oriented Modular Curriculum for First Year MBBS

CVS Module Time Table

First Year MBBS

Session 2023-2024

Batch- 51

CVS Module Team

Module Name	:	CVS Module
Duration of module	:	05 Weeks
Coordinator	:	Dr. Aneela Yasmeen
Co-Coordinator	:	Dr. Sheena Tariq
Reviewed by	:	Module Committee

Module Committee		
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar
2.	Chairperson Anatomy & Dean Basic Sciences	Prof. Dr. Ayesha Yousaf
3.	Director DME	Prof. Dr. Ifra Saeed
4.	Chairperson Physiology	Prof. Dr. Samia Sarwar
5.	Chairperson Biochemistry	Dr. Aneela Jamil
6.	Focal Person Anatomy First Year MBBS	Asso. Prof. Dr. Mohtashim Hina
7.	Focal Person Physiology	Dr. Sidra Hamid
8.	Focal Person Biochemistry	Dr. Aneela Jamil
9.	Focal Person Pharmacology	Dr. Zunera Hakim
10.	Focal Person Pathology	Dr. Asiya Niazi
11.	Focal Person Behavioral Sciences	Dr. Saadia Yasir
12.	Focal Person Community Medicine	Dr. Afifa Kulsoom
13.	Focal Person Quran Translation Lectures	Dr. Fahad Anwar
14.	Focal Person Family Medicine	Dr. Sadia Khan

Module Task Force Team		
1.	Coordinator	Dr. Aneela (Senior Demostrator of Physiology)
2.	DME Focal Person	Dr. Farzana Fatima
3.	Co-coordinator	Dr. Kashif (APMO of Anatomy)
4.	Co-Coordinator	Dr. Romessa Naeem (Demonstrator Biochemistry)
5.	Co-coordinator	Dr. Sheena Tariq (Senior Demonstrator Physiology)

DME Implementation Team		
1.	Director DME	Prof. Dr. Ifra Saeed
2.	Assistant Director DME	Dr. Farzana Fatima
3.	Implementation Incharge 1st & 2nd Year MBBS	Prof. Dr. Ifra Saeed Dr. Farzana Fatima
4.	Editor	Muhammad Arslan Aslam

Discipline Wise Details of Modular Content

Block	Department	General Anatomy	Embryology	Histology	Gross Anatomy
III	• Anatomy	• Heart & Vessels	• Cardiovascular System	• Heart & Vessels	Mediastinum, Heart, Great Vessels
	• Biochemistry	• Carbohydrate chemistry, Lipid chemistry			
	• Physiology	• The Heart as a Pump and Function of the Heart Valves& regulation of heart pumping, cardiac cycle • Rhythmical Excitation of the Hear &Specialized excitatory&conductive system of the heart & its control (revisit) • Electrocardiogram, its interpretation & its abnormalities • Medical Physics of Pressure, Flow, and Resistance, Vascular Distensibility and Functions of the Arterial and Venous Systems • Microcirculation and the Lymphatic System, Local and Humoral Control of Blood Flow by the Tissues • Nervous Regulation of the Circulation, and Rapid & Long-Term Control of Arterial Pressure, hypertension • Cardiac Output, Venous Return, and Their Regulation • Muscle Blood Flow and Cardiac Output During Exercise; the Coronary & regional circulation • Cardiac Failure, Circulatory Shock • Heart Valves and Heart Sounds; Dynamics of Valvular and Congenital Heart Defects			
	Spiral Courses				
	• The Holy Quran Translation	• Mumamalat-I • Muashrat-II • Ekhlaqiaat-I • Mumamalat -II			
	• Behavioural Sciences, Bioethics & Professionlism	• Breaking the bad news • Stigma to mental illness			
	• Radiology, Artificial Inteligence & Innovation	• Chest radiograph with perspective of cardiovascular system • Radiology with perspective of Artificial Intelligence & Innovation.			
	• Family Medicine	• Approach to a patient with chest pain			
	Vertical Integration				
	• Community Medicine	• Risk factors of coronary vascular disease			
	• DME	• DME orientation/paper discussion			
	• Pathology	• Thrombosis & Infarction			
	• Eye	• Hypertensive retinopathy			
	• Medicine	• ECG Changes (MI, Electrical Imbalance, Myocardial hypertrophy) • Overview of acute coronary syndrome & management of heart failure & management of shock • Hypertension			

	• Pharmacology	• Clinical pharmacology of antihypertensive drugs
	• Gynae & Obs	• Cardiovascular changes in pregnancy
	Early Clinical Exposure (ECE)	
	• Cardiology	• See cases of Heart Failure and Dyspnea Raised JVP/Oedema • Clinical Examination of Precordium • Normal Heart Sounds • Additional heart sounds See Cases of Coronary Heart Disease
	• Radiology	• X-Ray chest • Cardiomegaly • Radiological signs of heart failure
	• Pediatrics	• See cases of congenital heart diseases • Pediatric case of Heart Failure

Categorization of Modular Contents

Anatomy

Category A*	Category B**	Category C***			
		Demonstrations / SGD	**CBL**	**SKL/Practical's**	**Self-Directed Learning (SDL)**
• Embryology	• Histology	• Thoracic Wall / Thoracic Vertebra • Mediastinum • Pericardium • Heart (External Features) • Heart (Internal Features) • Heart (Clinical Correlations) • Vasculature of heart • Innervation of heart • Superior mediastinum • Posterior mediastinum (Contents) • Posterior mediastinum (Azygous system of veins) • Surface marking / Radiology	• Cardiac tamponade • Coarctation of aorta	• Elastic arteries • Medium and small sized arteries • Large veins • Medium and small sized veins	• Thoric Wall / Thoracic Vertebra • Pericidum • Mediastinum • Vasculature of heart • Superior mediastinum • Azygous system of veins

Category A*: By Professor

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resources of Department of Anatomy

Sr. #	Designation of Teaching Staff / Human Resource	Total Number of Teaching Staff
1.	Professor of Anatomy department	01
2.	Associate Professor	01
3.	Demonstrators of Anatomy department	04

Contact Hours (Faculty)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	2 * 10 = 20 hours
2.	Small Group Discussions (SGD)	2*11+1 =23 hours
3.	Practical / Skill Lab	1.5 * 20 = 30 hours

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	1 * 10 = 10 hours
2.	Small Group Discussions (SGD)	2*11+1 =23 hours
3.	Practical / Skill Lab	1.5 * 4 = 6 hours
4.	Self-Directed Learning (SDL)	1.5 * 8= 12 hours

Physiology

Category A*	Category B**	Category C***				
LGIS	**LGIS**	**PBL**	**CBL**	**Practical's**	**SGD**	**SDL**
• Short term regulation of blood pressure (**Prof. Dr. Samia Sarwar/Dr Fahad)** • Long term regulation of blood pressure (**Prof. Dr. Samia Sarwar/Dr Fahad)** • Circulatory Shock (**Prof. Dr. Samia Sarwar/Dr Fareed)** • Coronary circulation, Atherosclerosis & acute coronary occlusion • **Prof. Dr. Samia Sarwar/Dr Fahad**	• Cardiac output & its control, measurement of cardiac output, pathologically high and low cardiac output **(By Dr Sidra)** • Cardiac cycle - I, Events of cardiac cycle and its graphical representation **(By Dr Sidra)** • Cardiac cycle – II, Functions of ventricles as pumps, aortic pressure curve, regulation of heart pumping **(By Dr Sidra)** • Cardiac cycle, Events of cardiac cycle and its graphical representation, Functions of ventricles as pumps, aortic pressure curve, regulation of heart pumping (SDL) **By Dr Sidra** • Introduction to CVS (**By Dr**	1. 2.	• Pitting edema • Palpitations/Tachycardia	• Examination of arterial pulse • Determination of Jugular Venous Pressure (JVP) • Clinical examination of chest for CVS • Determination of Blood Pressure (BP) • Effect of exercise & posture on arterial blood pressure • Recording of Electrocardiography (ECG) • Cardiopulmonary resuscitation (CPR) Demonstration of Triple Response	1. Concept of vasomotion and starling forces 2. Regulation of blood pressure 3. Cardiac output and Venous return (second week) 4. ECG & its clinical importance (second week) 5. Arrhythmias (third week) 6. Short term regulation of blood pressure (fourth week) 7. Long term regulation of blood pressure (fourth week) 8. Coronary circulation, Atherosclerosis & acute coronary occlusion (fourth week) Cardiac cycle (fourth week)	1. SDL On Campus Heart Sounds 2. Capillary circulation, Concept of vasomotion and starling forces 3. Introduction to ECG & its clinical importance 4. Cardiac cycle - I, Events of cardiac cycle and its graphical representation 5. Arrhythmias 6. Congestive cardiac failure 7. Long term regulation of blood pressure 1. Skeletal muscle blood flow, Cardiovascular changes during exercise 1. SDL Off Campus

	Fahad) • Classification of blood vessels & Biophysical considerations (**By Dr Aneela)** • Heart Sounds (**By Dr Uzma)** • Regulation of blood flow **(By Dr Aneela)** • Capillary circulation, Concept of vasomotion and starling forces (**By Dr Fahad)** • Functions of veins, Venous return and factors affecting venous return (**By Dr Kamil)** • Introduction to ECG & its clinical importance (**By Dr Fahad)** • Vectorial analysis & arrhythmias I **(By Dr Fahad)** • Arrhythmias II **(By Dr Fahad)** • ECG changes in myocardial hypertrophies, ischemic heart disease **(By Dr Fahad)** • Congestive cardiac failure **(By Dr Fareed)** • Splanchnic circulation, cutaneous circulation					Introduction to CVS 2. Classification of blood vessels & Biophysical considerations 3. Regulation of blood flow 4. Introduction to ECG & its clinical importance 5. Vectorial analysis & arrhythmias 6. Cardiac cycle 7. Splanchnic circulation, cutaneous circulation Regulation of blood pressure

	(By Dr Fareed) • Skeletal muscle blood flow, Cardiovascular changes during exercise • **(By Dr Uzma)** • Fetal circulation & cardiac abnormalities in fetal circulation • **(By Dr Fahad)**					

Category A*: By HOD and Associate Professor

Category B:** By All (HOD, Associate, Assistant, Senior Demonstrators)

Category C*:** By Demonstrators and Residents

Teaching Staff / Human Resource of Department of Physiology

Sr. #	Designation Of Teaching Staff / HumanResource	Total number ofteaching staff
1.	Professor of physiology department	01
2.	Associate professor of physiology department	01
3.	Assistant professor of physiology department (AP)	01
4.	Demonstrators of physiology department	07
5.	Residents of physiology department (PGTs)	06

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LECTURES)	22X1 =22 Hours
2.	Small Group Discussions (SGD)/CBL	1.5X4 =6 Hours + 8 Hours (2nd,3rd ,4th week) = 14 Hours
3.	Problem Based Learning (PBL)	---
4.	Practical / Skill Lab	1.5X4 =6 Hours
5.	Self-Directed Learning (SDL)	8x1 = 8 Hours (On Campus) 8x1 = 8 Hours (Off Campus)

Biochemistry

Category A*	Category B**				
LGIS	**LGIS**	**PBL**	**CBL**	**Practical's**	**SGD**
• Simple Lipids • Compound Lipids (phospholipids, glycolipids, lipoproteins) • Prostaglandins	• Definition and Biological importance of Lipids • Fatty acids • Derived lipids • Cholesterol • Introduction and classification of carbohydrates • Isomerism, optical activity and mutarotation • Monosaccharide • Disaccharides • Homopolysaccharides • Heteropolysaccharides		• Atherosclerosis • Heteropolysaccharides	• Lipid solubility • Benedict's test and Molisch's test • Barfoed's Test and Selivanoff's test • Iodine Test	• Classification of carbohydrates and lipids • Classification and properties of fatty acids

Category A*: By HOD and Senior Demonstrator with Postgraduate Qualification.

Category B:** By Senior Demonstrators & APWMO

Category C*:** By All Demonstrators

Teaching Staff / Human Resource of Department of Biochemistry

Sr. #	Designation of Teaching Staff / Human Resource	Total number of teaching staff
1	Assistant professor of biochemistry department (AP)	01
2	Demonstrators of biochemistry department	05

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (student)
1.	Large Group Interactive Session (LECTURES)	2 * 8 = 16 hours	08
2.	Small Group Discussions (SGD)	1.5 * 5 = 22.5hours	4.5
3.	Problem Based Learning (PBL)	Zero	zero
4.	Practical / Skill Lab	1.5 * 5= 22.5hours	4.5
5.	Self-Directed Learning (SDL)	----------	08

First Year Timetable for CVS Module (First Week)
12-09-2024 to 18-09-2024

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
Thursday 12-09-2024	**DISSECTION/SGD**		Break	**COMMUNITY MEDICINE (LGIS)**	**PHYSIOLOGY (LGIS)**	Break	Practical &CBL Topics mentioned at the end	SDL Physiology Introduction to CVS
	Thoracic Wall / Thoracic Vertebra			Risk factors of coronary vascular disease	Introduction to CVS / Classification of Blood vessels & Biophysical considerations			
				Dr Rizwana (Even) / Dr Asif (Odd)	Dr Fahad (Even) / Dr. Aneela (Odd)			
Date/Day	**8:00 AM – 09:00 AM**	**09:00 AM – 10:00 AM**		**10:00 AM – 11:00 AM**	**11:00 AM – 12:00 PSM**			
Friday 12-09-2024	**QURAN TRANSLATION-I**	**QURAN TRANSLATION-II**		**ANATOMY (LGIS)**	**PHYSIOLOGY (LGIS)**	SDL Physiology Classification of Blood vessels & Biophysical considerations		
	Muashrat-II / Mumamalat-I	Mumamalat-I / Muashrat-II		**Embryology**: Development of Venous System	**General Anatomy**: (General Organization of CVS)			
	Molana Abdul Wahid (Even) / Mufti Naeem (Odd)	Mufti Naeem (Even) / Molana Abdul Wahid (Odd)		Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even)	Prof. Dr. Saima (Odd)			
					Classification of Blood vessels & Biophysical considerations: Dr. Aneela (Even) / Introduction to CVS: Dr Fahad (Odd)			
Saturday 14-09-2024	**BIOCHEMISTRY (LGIS)**	**PBL 1 (SESSION I)**	Break	**ANATOMY (LGIS)**	**PHYSIOLOGY (LGIS)**	Break	Practical &CBL Topics mentioned at the end.	SDL Biochemistry Classification & functions of carbohydrates
	Introduction and classification of carbohydrates & Isomerism / Introduction and classification of lipids &Fatty acids	PBL Team		**General Anatomy**: (General Organization of CVS)	**Embryology**: Development of Venous System	Heart sounds / Regulation of blood flow		
	Dr. Kashif (Even) / Dr. Uzma Zafar/Dr. Aneela (odd)			Prof. Dr. Saima (Even)	Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)	Dr. Uzma(even) / Dr. Aneela (Odd)		
Monday 16-09-2024	Eid Milad-un-Nabi (12^{th} Rabi-ul- Awwal 1446 A.H)							
Tuesday 17-09-2024	**DISSECTION/SGD**	**BEHAVIOURAL SCIENCES**	Break	**ANATOMY (LGIS)**	**PHYSIOLOGY (LGIS)**	Break	Practical &CBL Topics mentioned at the end.	SDL Biochemistry Classification & functions of lipids
	Mediastinum (General Features & Divisions)	Breaking the bad news		**General Anatomy**: (Classification of vessels)	**Embryology**: (Aortic Arches and derivatives)	Regulation of blood flow / Heart sounds		
		Dr. Sadia Yasir (Even) / Dr. Zarnain (Odd)		Assoc Prof. Dr. Mohtasham (Even)	Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)	Dr. Aneela (even) / Dr. Uzma (Odd)		
Wednesday 18-09-2024	**BIOCHEMISTRY (LGIS)**	**PHYSIOLOGY (LGIS)**		Practical &CBL Topics mentioned at the end. **Monday Batch 16-09-2024**	**PHYSIOLOGY (LGIS)**		Practical &CBL Topics mentioned at the end.	SDL Anatomy Thoracic Wall / Thoracic Vertebrae
	Introduction and classification of lipids &Fatty acids / Introduction and classification of carbohydrates & Isomerism	Functions of veins, Venous return and factors affecting venous return / Capillary circulation, Concept of vasomotion and starling forces			Capillary circulation, Concept of vasomotion and starling forces / Functions of veins, Venous return and factors affecting venous return			
	Dr. Uzma Zafar/Dr.Aneela (Even) / Dr. Kahif (Odd)	Dr Kamil (Even) / Dr Fahad (Odd)			Dr. Fahad (Even) / Dr. Kamil (Odd)			

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects)
CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Elastic Arteries (Anatomy/ Histology-practical) venue Histology Laboratory (Dr. Kashif)
- Lipid solubility (Biochemistry practical) venue- Biochemistry Laboratory
- Examination of arterial pulse (Physiology –practical) Physiology Laboratory
- Determination of Jugular Venous Pressure (JVP) (Physiology –practical) Physiology Laboratory

Topics for SGDs / CBL with Venue

- Biochemistry tutorial – classification of carbohyrates and lipids
- Concept of vasomotion and starling forces. (SGD) (Physiology Lecture Hall No.05)
- Anatomy CBL: Cardiac Tamponade

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/ Dr. Ali Zain/Dr. Usman	A	Dr. Sheena/Dr. Nazia	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Romessa		A	Dr. Sheena/ Dr..Nazia/Dr. Afsheen	B	Dr. Uzma/Dr. Farah		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farah/Dr/ Ramsha	C	Dr. Fahd/ Dr. Najam		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen/ Dr. Farah	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Romessa
Saturday	A		E	Dr. Romessa		C	Dr. Fahd/Dr. Najam/Dr. Ali	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3
Supervised by Prof. Dr. Ayesha Yousaf			

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Ali Raza (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

First Year Timetable for CVS Module (Second Week)
19-09-2024 to 25-09-2024

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
Thursday 19-09-2024	**CBL/DISSECTION**		**Break**	**RADIOLOGY (LGIS)**	**PHYSIOLOGY (LGIS)**	**Break**	Practical &CBL Topics mentioned at the end	SDL Physiology Regulation of blood flow
	Pericardium / Cardiac tamponade			Chest radiograph with perspective of cardiovascular system	Introduction to ECG & its clinical importance; Cardiac output & its control, measurement of cardiac output, pathologically high and low cardiac output-I			
				Dr Aniqua (Even); Dr. Fiza (Odd)	Dr Fahd (Odd); Dr Sidra (Even)			
Date/Day	**8:00AM – 09:00 AM**	**09:00AM – 10:00 AM**	**10:00 AM – 11:00 AM**		**11:00 AM – 12:00 PM**			
Friday 20-09-2024	**QURAN TRANSLATION -III**: Mumamalat -II (Mufti Naeem (even)); Ekhlaqiaat-I (Molana Abdul Wahid (Odd))	**QURAN TRANSLATION -IV**: Ekhlaqiaat-I (Molana Abdul Wahid (even)); Mumamalat-II (Mufti Naeem (Odd))	**PBL 1 (SESSION II)**: PBL Team		**PHYSIOLOGY (LGIS)**: Cardiac output & its control, measurement of cardiac output, pathologically high and low cardiac output-II (Dr. Sidra (Odd)); Introduction to ECG & its clinical importance (Dr Fahd (Even))		SDL Physiology Introduction to ECG & its clinical importance	
Saturday 21-09-2024	**DISSECTION/SGD**		**Break**	**ANATOMY (LGIS)**	**PHYSIOLOGY (LGIS)**	**Break**	Practical &CBL Topics mentioned at the end	SDL Biochemistry Fatty acids & Simple lipids
	Heart (External Features)			**Embryology**: (Aortic Arches and derivatives) Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even); **General Anatomy**: (Classification of vessels) Assoc Prof. Dr. Mohtasham (Odd)	Vectorial analysis & arrhythmias I (Dr. Fahad (even)); Cardiac cycle - I, Events of cardiac cycle and its graphical representation (Dr Sidra (Odd))			
Monday 23-09-2024	**DISSECTION/SGD**			**ANATOMY (LGIS)**	**PHYSIOLOGY (LGIS)**		Practical &CBL Topics mentioned at the end	SDL Biochemistry Classification and Chemical reactions of Monosaccharides
	Heart (Clinical Correlations of Heart)			**Histology**: (Arteries and Veins) Assoc. Prof. Dr. Mothashim (Even); **Embryology**: (Formation, Position and Partitioning of heart tube) Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)	Cardiac cycle - I, Events of cardiac cycle and its graphical representation (Dr Sidra (even)); Vectorial analysis & arrhythmias I (Dr Fahd (Odd))			
Tuesday 24-09-2024	**DISSECTION/SGD**			**BIOCHEMISTRY (LGIS)**	**PHYSIOLOGY (LGIS)**		Practical &CBL Topics mentioned at the end	SDL Anatomy Heart
	Heart (Internal Features)			Mutarotation & Monosaccharides & their chemical reaction (Dr. Uzma (even)); Simple lipids & Compound lipids (Dr. Aneela (Odd))	Arrhythmias II (Dr. Fahd (Even)); Cardiac cycle – II, Functions of ventricles as pumps, aortic pressure curve, regulation of heart pumping (Dr. Sidra (Odd))			
Wednesday 25-09-2024	**BEHAVIOUR SCIENCES**: Stigma to mental illness (Dr. Azeem Rao (Even); Dr. Quratulain (Odd))	**BIOCHEMISTRY (LGIS)**: Simple lipids & Compound lipids (Dr. Aneela (even)); Mutarotation & Monosaccharides & their chemical reaction (Dr Uzma (Odd))		**PATHOLOGY (LGIS)**: Edema (Dr Fariha (Even); Dr Rabia (Odd))	**PHYSIOLOGY (LGIS)**: Cardiac cycle – II, Functions of ventricles as pumps, aortic pressure curve, regulation of heart pumping (Dr. Sidra (Even)); Arrhythmias II (Dr. Fahd (Odd))		Practical &CBL Topics mentioned at the end	SDL Anatomy Vassculature of Heart Online Evaluation

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects)
CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Medium & Small Sized Arteries (Anatomy/ Histology-practical) venue Histology Laboratory (Dr. Kashif)
- Molisch's Test & Benedict's Test (Biochemistry practical) venue- Biochemistry Laboratory
- Clinical examination of chest for CVS (Physiology –practical) Physiology Laboratory
- Determination of Blood Pressure (BP) (Physiology –practical) Physiology Laboratory

Topics for SGDs / CBL with Venue

- Biochemistry tutorial – Classification & Properties of Fatty Acids. (Biochemistry Basement demo room)
- Physiology CBL- Pitting edema (Physiology Lecture Hall No.05)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/ Dr. Ali Zain/Dr. Usman	A	Dr. Sheena/Dr. Nazia	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Romessa		A	Dr. Sheena/ Dr..Nazia/Dr. Afsheen	B	Dr. Uzma/Dr. Farah		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farah/Dr/ Ramsha	C	Dr. Fahd/ Dr. Najam		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen/ Dr. Farah	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Romessa
Saturday	A		E	Dr. Romessa		C	Dr. Fahd/Dr. Najam/Dr. Ali	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Ali Raza (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

First Year Timetable for CVS Module (Third Week)
26-09-2024 to 02-10-2024

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
Thursday 26-09-2024	**DISSECTION/SGD**		**Break**	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical &CBL Topics mentioned at the end	SDL Physiology Regulation of BP
	Vassculature of Heart (Coarctation of Aorta)			**Embryology** (Formation, Position and Partitioning of heart tube)	**Histology** (Arteries and Veins)	ECG changes in myocardial hypertrophies, ischemic heart disease	Short term regulation of blood pressure			
				Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even)	Assoc. Prof. Dr. Mothashim (Odd)	Dr. Fahd(Even)	Prof..Dr. Samia / Dr.Kamil (Odd)			
Date/Day	**8:00AM – 10:00 AM**			**10:00AM – 11:00 AM**		**11:00 AM – 12:00 PM**				
Friday 27-09-2024	**DISSECTION/SGD**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		SDL Physiology Regulation of BP		
	Innervation of Heart			**Embryology** (Formation and partitioning of Ventricles)	**Histology** (Capillaries)	Short term regulation of blood pressure	ECG changes in myocardial hypertrophies, ischemic heart disease			
				Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even)	Assoc. Prof. Dr. Mothashim (Odd)	Prof. Dr. Samia / Dr. Kamil (Even)	Dr. Fahd (Odd)			
Saturday 28-09-2024	**BIOCHEMISTRY (LGIS)**		**FAMILY MEDICINE**	**Break**	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical &CBL Topics mentioned at the end	SDL Biochemistry Disaccharides
	Derived lipids	Disaccharides &homopolysaccharides	Approach to a patient with chest pain		**Histology** (Capillaries)	**Embryology** (Formation and partitioning of Ventricles)	Congestive cardiac failure	Long term regulation of blood pressure			
	Dr. Kahif (even)	Dr. Uzma/Dr. Aneela (Odd)	Dr Sadia khan		Assoc. Prof. Dr. Mothashim (Even)	Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)	Dr.Fareed (Even)	Prof..Dr. Samia / Dr. Kamil (Odd)			
Monday 30-09-2024	**DISSECTION/CBL**				**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical &CBL Topics mentioned at the end	SDL Biochemistry Compound lipids
	Superior Mediastinum (Trachea, Esophagus Ascending Aorta) (Coarctaion of Aorta)				**Embryology** (Fetal Circulation)	**Histology** (Tunics of heart & Lyphatic System)	Long term regulation of blood pressure	Congestive cardiac failure			
					Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even)	Assoc. Prof. Dr. Mothashim (Odd)	Prof.Dr. Samia /Dr. Kamil (Even)	Dr. Fareed (Odd)			
Tuesday 01-10-2024	**ARTIFICIAL INTELLIGENCE**	**BIOCHEMISTRY (LGIS)**			**PHYSIOLOGY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical &CBL Topics mentioned at the end	SDL Anatomy Innervation of Heart
	Guest Lecture	Disaccharides &homopolysaccharides	Derived lipids		Splanchnic circulation, cutaneous circulation	Skeletal muscle blood flow, Cardiovascular changes during exercise	Fetal circulation & cardiac abnormalities in fetal circulation	Circulatory shock			
	Prof. Dr. Riaz Sheikh	Dr. Uzma/Dr. Aneela (Even)	Dr. Kahif (Odd)		Dr. Fareed (Even)	Dr Uzma (Odd)	Dr.Fahad (Even)	Prof. Dr. Samia Sarwar / Dr. Fareed (Odd)			
Wednesday 02-10-2024	Early Clinical Exposure										

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects)
CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Large Veins (Anatomy/ Histology-practical) venue Histology Laboratory (Dr. Kashif)
- Selivanoff's Test & Barfoed's Test (Biochemistry practical) venue-Biochemistry Laboratory
- Effect of exercise and posture on arterial blood pressure (Physiology –practical) Physiology Laboratory
- Recording of Electrocardiography (ECG) (Physiology –practical). Physiology Laboratory

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/ Dr. Ali Zain/Dr. Usman	A	Dr. Sheena/Dr. Nazia	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Nayab		A	Dr. Sheena/ Dr..Nazia/Dr. Afsheen	B	Dr. Uzma/Dr. Farah		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farah/Dr/ Ramsha	C	Dr. Fahd/ Dr. Najam		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen/ Dr. Farah	E	Dr. Farid/ Dr. Ali Zain		C	Dr.Romessa
Saturday	A		E	Dr. Romessa		C	Dr. Fahd/Dr. Najam/Dr. Ali	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Topics for SGDs / CBL with Venue

- Biochemistry CBL- Atherosclerosis.
- Physiology CBL Palpitations / Tachycardia (Physiology Lecture Hall No.05)
- Anatomy CBL: Coarctation of Aorta

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Ali Raza (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

No PBL Session during this week

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

First Year Timetable for CVS Module (Fourth Week)
03-10-2024 to 09-10-2024

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
Thursday 03-10-2024	**DISSECTION/SGD** Posterior mediastinum (Contents)		**Break**	**PBL 2 (SESSION I)** PBL Team	**PHYSIOLOGY (LGIS)** Circulatory shock / Fetal circulation & cardiac abnormalities in fetal circulation Prof. Dr. Samia Sarwar / Dr. Fareed (Even) / Dr.Fahad (Odd)	**Break**	Practical &CBL Topics mentioned at the end.	SDL Anatomy Superior Mediastinum
Date/Day	**8:00AM – 09:00 AM**	**09:00AM – 10:00 AM**	**10:00 AM – 11:00 AM**		**11:00 AM – 12:00 PM**			
Friday 04-10-2024	**MEDICINE** Overview of acute coronary syndrome & Management of heart failure & Management of shock Dr. Asad cardiologist (Even) / Dr. Hasnain (Odd)	**PHYSIOLOGY (LGIS)** Skeletal muscle blood flow, Cardiovascular changes during exercise / Splanchnic circulation, cutaneous circulation Dr.Uzma(Even) / Dr. Fareed (Odd)	Practical &CBL Topics mentioned at the end **Wednesday Batch 25-09-2024**		**PHYSIOLOGY (LGIS)** Coronary circulation, Atherosclerosis & acute coronary occlusion / Short term regulation of blood pressure Prof..Dr. Samia/ Dr. kamil (Even) / Dr. Najam SDL (Odd)	SDL Physiology Vectorial analysis & arrhythmias		
Saturday 05-10-2024	**MEDICINE(LGIS)** Hypertension Dr. Asad cardiologist (Even) / Dr. Hasnain (Odd)	**PHYSIOLOGY SDL NO 2** Long term & Regulation of Blodd Pressure Dr. Iqra (Even) / Dr. Nayab (Odd)	**ANATOMY (LGIS)** **Histology** (Tunics of heart & Lyphatic System) / **Embryology** (Fetal Circulation) Assoc. Prof. Dr. Mothashim (Even) / Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)		**PHYSIOLOGY (LGIS)** Short term regulation of blood pressure / Coronary circulation, Atherosclerosis & acute coronary occlusion Dr. Najam SDL (Even) / Prof. Dr. Samia/ Dr.Kamil (Odd)	**Break**	Practical &CBL Topics mentioned at the end	SDL Physiology Cardiac cycle
Monday 07-10-2024	**PHARMACOLOGY** Clinical Pharmacology of Anti hypertensive drugs (Even) / (Odd)	**BIOCHEMISTRY(LGIS)** Heteropolysaccharides / Prostaglandins Dr. Kashif (even) / Dr. Aneela (Odd)	**Break**	**GYNAE & OBS (LGIS)** Hypertensive disorders in pregnancy (gestational hypertension, pre-eclampsia) Dr. Saima Khan(Even) / Dr. Sadia Bano (Odd)	**PHYSIOLOGY SDL NO 3** Skeletal muscle blood flow, Cardiovascular changes during exercise Dr. Iqra (Odd) / Dr. Nayab (Even)	**Break**	Practical &CBL Topics mentioned at the end	SDL Biochemistry Prostaglandins
Tuesday 08-10-2024	**DISSECTION/SGD** Posterior Mediastinum (Azygous system of Veins)			**BIOCHEMISTRY(LGIS)** Prostaglandins / Heteropolysaccharides Dr. Aneela (even) / Dr. Kashif (Odd)	**EYE LGIS** Hypertensive Retinopathy Dr. Sehar Umer (Even) / Dr. Sehar Umer (Even)		Practical &CBL Topics mentioned at the end	SDL Biochemistry Heteropoly saccharides
Wednesday 09-10-2024	**DISSECTION/SGD** Cross Sectional Anatomy / Radiology			**PBL 2 (SESSION II)** PBL Team	**PHYSIOLOGY (SDL) NO. 4** Heart Sounds & Cardiac Cycle Dr. Maryam (Even) / Dr. Ramsha (Odd)		Practical &CBL Topics mentioned at the end	SDL Anatomy Posterior Mediastinum Online ClinicalEvaluation

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects)
CBL / Small Group Disscusion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Medium & Small Sized Veins (Anatomy/ Histology-practical) venue Histology Laboratory (Dr. Kashif)
- Iodine Test (Biochemistry practical) venue- Biochemistry Laboratory
- Cardiopulmonary resuscitation (CPR) (Physiology –practical) Physiology Laboratory
- Demonstration of Triple Response (Physiology –practical) (Physiology Physiology Laboratory

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical			Physiology Practical		Physiology SGD			Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat	Supervised by HOD	E	Dr. Farid/ Dr. Ali Zain/Dr. Usman	A	Dr. Sheena/Dr. Nazia	Supervised by HOD	D	Dr. Uzma
Tuesday	D		C	Dr. Romessa		A	Dr. Sheena/ Dr..Nazia/Dr. Afsheen	B	Dr. Uzma/Dr. Farah		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farah/Dr/ Ramsha	C	Dr. Fahd/ Dr. Najam		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen/ Dr. Farah	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Romessa
Saturday	A		E	Dr. Romessa		C	Dr. Fahd/Dr. Najam/Dr. Ali	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Topics for SGDs / CBL with Venue

- Biochemistry Heteropolysaccharides CBL (Biochemistry Basement demo room)
- Physiology tutorial- Regulation of blood pressure (Physiology Lecture Hall No.05)

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demostrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demostrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Ali Raza (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

Schedule for LMS Based Weekly Online Assessments for First Year MBBS (CVS Module)

The online assessment for CVS Module for First Year MBBS will be as per following schedule:

Class	Module	Day & Date	Time of Assessment	Focal person	Department Responsible
First Year MBBS	CVS Module	Monday 23-09-2024	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 24-09-2024	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 25-09-2024	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry
		Monday 30-09-2024	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 01-10-2024	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 02-10-2024	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry

First Year Timetable for CVS Module (Fifth Week)
10-10-2024 to 16-10-2024

DAY/ TIME	8:00AM– 02:00pm
Thursday 10-10-2024	Assessment Week
Friday 11-10-2024	
Saturday 12-10-2024	
Monday 14-10-2024	
Tuesday 15-10-2024	
Wednesday 16-10-2024	

Integrated Clinically Oriented Modular Curriculum for First Year MBBS

Respiration Module Time Table

First Year MBBS

Session 2023-2024

Batch- 51

Respiration Module Team

Module Name	:	Respiration Module
Duration of module	:	04 Weeks
Coordinator	:	Dr. Rahat
Co- Coordinator	:	Dr. Qurat ul Ain
Review by	:	Module Committee

Module Committee		
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar
2.	Chairperson Anatomy & Dean Basic Sciences	Prof. Dr. Ayesha Yousaf
3.	Director DME	Prof. Dr. Ifra Saeed
4.	Chairperson Physiology	Prof. Dr. Samia Sarwar
5.	Chairperson Biochemistry	Dr. Aneela Jamil
6.	Focal Person Anatomy First Year MBBS	Asso. Prof. Dr. Mohtashim Hina
7.	Focal Person Physiology	Dr. Sidra Hamid
8.	Focal Person Biochemistry	Dr. Aneela Jamil
9.	Focal Person Pharmacology	Dr. Zunera Hakim
10.	Focal Person Pathology	Dr. Asiya Niazi
11.	Focal Person Behavioral Sciences	Dr. Saadia Yasir
12.	Focal Person Community Medicine	Dr. Afifa Kulsoom
13.	Focal Person Quran Translation Lectures	Dr. Fahad Anwar
14.	Focal Person Family Medicine	Dr. Sadia Khan

Module Task Force Team		
1.	Coordinator	Dr. Rahat (Senior Demonstrator of Biochemistry)
2.	DME Focal Person	Dr. Farzana Fatima
3.	Co-coordinator	Dr. Qurat ul Ain (Senior Demonstrator of Anatomy)
4.	Co-Coordinator	Dr. Almas Ejaz (Demonstrator Biochemistry)
5.	Co-coordinator	Dr. Fareed Ullah Khan (Senior Demonstrator Physiology)

DME Implementation Team		
1.	Director DME	Prof. Dr. Ifra Saeed
2.	Assistant Director DME	Dr. Farzana Fatima
3.	Implementation Incharge 1st & 2nd Year MBBS	Prof. Dr. Ifra Saeed Dr. Farzana Fatima
4.	Editor	Muhammad Arslan Aslam

Discipline wise Details of Modular Content

Block	Module	General Anatomy	Embryology	Histology	Gross Anatomy
III	• Anatomy	•	• Embryology of Respiratory System	Histology of Upper & Lower • Respiratory System	• Gross Anatomy of Upper & Lower Respiratory System
	• Biochemistry	• pH, Electron transport chain, Oxidative phosphorylation, Water soluble vitamins riboflavin, biotin, pyridoxine, pantothenic acid, Normal acid base regulation			
	• Physiology	• Pulmonary Ventilation, Pulmonary Volumes and Capacities, Alveolar Ventilation, Functions of the Respiratory Passageways • Pulmonary Circulation, Pulmonary Edema, Physical Principles of Gas Exchange; Diffusion of Oxygen and Carbon Dioxide Through the Respiratory Membrane Transport of Oxygen and Carbon Dioxide in Blood and Tissue Fluids • Regulation of Respiration • Useful Methods for Studying Respiratory Abnormalities, Respiratory Insufficiency, Hypoxia & Oxygen Therapy, Hypercapnia & Artificial Respiration Respiratory changes during Exercise, Aviation, Space & Deep-Sea Diving Physiology			
	Spiral Courses				
	• The Holy Quran Translation	• Immaniat- V & VI • Ibaadat-V			
	• Artificial Intelligence	• Artificial Intelligence basic concepts			
	• Family Medicine	• Approach to a patient with cough hemoptysis & shortness of breath			
	• Climate Change & Health	• Effects of Climate Changes on Body Systems (IHD, Skin Diseases & Heat Stroke) • Effects of Climate Changes on Respiratory System (Asthma, COPD, Allergies & Cancers) • Greenhouse effect • Global warming and climate change			
	• Bioethics Professionalism & Behavioral Sciences	• Crises intervention and disaster Conflict resolution and empathy			
	Vertical Integration				
	• Medicine	• Tuberculosis			
	• Pathology	• Clinical disorders of Respiration			
	• ENT	• Foreign body nose & ear &Tonsillitis			
	Early Clinical Exposure (ECE)				
	• Medicine	• Dyspnea Observe/see patients • Cyanosis & see Asthma case COPD cases			

		• Tuberculosis cases with fibrosis of lungs
	• Surgery	• See cases of Flail chest & Pneumothorax • Chest intubation
	• Radiology	• Radiology of chest • Chest X-ray at different level with reference to Anatomy and Pathologies

Categorization of Modular Contents

Anatomy

Category A*	Category B**	Category C***			
Special Embryology	**Special Histology**	**Demonstrations / SGD**	**CBL**	**Practical's**	**Self-Directed Learning (SDL)**
		• Nose and Paranasal sinuses • Larynx and trachea • Overview of thoracic wall • Skeleton of thoracic wall (Ribs) • Skeleton of thoracic wall (Sternum) • Joints of Thoracic Wall • Thoracic Apertures • Movements Of Thoracic Wall & Intercostal Spaces • Diaphragm • Vasculature of thoracic wall • Innervation of Thoracic Wall • Pleura • Lungs • Radiology & Surface Marking	• Lungs and its lymphatics • Thorax & Pleura	• Nose/paranasal sinuses /epiglottis • Trachea • Lungs	• Nose paranasal sinus larynx and trachea • Skeleton of thoracic wall • Movement of Thoracic Wall & Intercostal Spaces • AnatomyOf diaphragm • Anatomy Pleura • Lungs

Category A*: By Professor

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Anatomy

Sr. #	Designation Of Teaching Staff / Human Resource	Total number of teaching staff
1.	Professor of Anatomy department	01
2.	Associate Professor of Anatomy department (AP)	01
3.	Demonstrators of Anatomy department	04

Contact Hours (Faculty)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	2* 08 = 16 hours
2.	Small Group Discussions (SGD)	1*4, 2*11 =26 hours
3.	Practical / Skill Lab	7.5 * 3 = 22.5 hours

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	1 * 8 = 8 hours
2.	Small Group Discussions (SGD)	1*4, 2*11 =26 hours
3.	Practical / Skill Lab	1.5 * 3 = 4.5 hours
4.	Self-Directed Learning (SDL)	2 * 6 = 12 hours

Physiology

Category A*	Category B**	Category C***					
• Transport of oxygen (**Prof. Dr. Samia Sarwar/Dr Sheena)** • Oxygen hemoglobin dissociation curve (Prof. Dr. Samia Sarwar/Dr Sheena) • Transport of CO2 (Prof. Dr. Samia Sarwar/Dr Iqra) • Nervous regulation of respiration (Prof. Dr. Samia Sarwar/Dr Kamil) • Chemical regulation of respiration & exercise changes (Prof. Dr. Samia Sarwar/Dr Kamil) • Space physiology (Prof. Dr. Samia Sarwar/Dr Fareed) • High altitude physiology (Prof. Dr. Samia Sarwar/Dr Fareed) • Deep sea physiology (Prof. Dr. Samia Sarwar/Dr Nayab) • Mechanics of pulmonary ventilation, Lung compliance (By Dr. Shmyla) • Pulmonary volumes, capacities & functions of respiratory tract (By Dr. Shmyla) • Ventilation perfusion ratio (By Dr. Shmyla) • Lung function teRespiratory abnormalities (COPD, Tuberculosis, Pneumonia, Atelectasis) • (By Dr. Shmyla)st (By Dr. Shmyla) • Hypoxia, hypercapnia, cyanosis (By Dr. Shmyla)		Transport of CO2 (Prof. Dr. Samia Sarwar/Dr Iqra) Deep sea physiology (Prof. Dr. Samia Sarwar/Dr Nayab)	**PBL** One PBL In two sessions	**Demonstrations / SGD** • Physiology of unusual environment. • Mechanics of pulmonary ventilation & compliance (Second week) • Ventilation perfusion ratio & regulation of respiration (Second week)	**CBL** • Wheeze/Stridor • Crib Death	**SKL/Practical's** • Measurement of different lung volume & capacities with the help of spirometer • Recording of normal and modified movement of respiration (Stethography) • Clinical examination of chest for respiration.	**Self-Directed Learning (SDL)** **(OFF CAMPUS)** • Mechanics of pulmonary ventilation, Lung compliance • Pulmonary circulation • Pulmonary volumes, capacities • Transport of oxygen • Chemical regulation of respiration & exercise changes • Hypoxia, hypercapnia, cyanosis

Category A*: By Professor

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Physiology

Sr. #	Designation Of Teaching Staff / HumanResource	Total number ofteaching staff
1.	Professor of physiology department	01
2.	Associate professor of physiology department	01
3.	Assistant professor of physiology department (AP)	01
4.	Demonstrators of physiology department	07
5.	Residents of physiology department (PGTs)	06

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LECTURES)	16X1 =16 Hours
2.	Small Group Discussions (SGD)/CBL	1.5X3 =4.5 Hours + 2 Hours (2nd week) = 6.5 Hours
3.	Problem Based Learning (PBL)	---
4.	Practical / Skill Lab	1.5X3 =4.5 Hours
5.	Self-Directed Learning (SDL)	6x1 = 6 Hours (Off Campus)

Biochemistry

Category A*	Category B**				
LGIS	**LGIS**	**PBL**	**CBL**	**Practical's**	**SGD**
• Simple Lipids • Compound Lipids (phospholipids, glycolipids, lipoproteins) • Prostaglandins	• Definition and Biological importance of Lipids • Fatty acids • Derived lipids • Cholesterol • Introduction and classification of carbohydrates • Isomerism, optical activity and mutarotation • Monosaccharide • Disaccharides • Homopolysaccharides • Heteropolysaccharides		• Atherosclerosis • Heteropoly saccharides	• Lipid solubility • Benedict's test and Molisch's test • Barfoed's Test and Selivanoff's test • Iodine Test	• Classification of carbohydrates and lipids • Classification and properties of fatty acids

Category A*: By HOD and Assistant Professor

Category B:** By All (HOD, Assistant Professors, Senior Demonstrators)

Category C*:** (By All Demonstrators)

Teaching Staff / Human Resource of Department of Biochemistry

Sr. #	Designation of Teaching Staff / Human Resource	Total number of teaching staff
1	Assistant professor of biochemistry department (AP)	01
2	Demonstrators of biochemistry department	07

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (student)
1.	Large Group Interactive Session (LECTURES)	2 * 8 = 16 hours	08
2.	Small Group Discussions (SGD)	1.5 * 5 = 7.5hours	06
3.	Problem Based Learning (PBL)	Zero	zero
4.	Practical / Skill Lab	1.5 * 5= 7.5hours	6
5.	Self-Directed Learning (SDL)	----------	08

First Year Timetable for Respiratory Module (First Week)
17-10-2024 To 23-10-2024

Date/Day	8:00am – 09:00am	09:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
17-10-2024 Thursday	**DISSECTION SGD**		**Break**	**ANATOMY (LGIS)**		**PHYSIOLOGY(LGIS)**		**Break**	Practical & CBL Topics & venue mentioned at the end	SDL Physiology Mechanics of pulmonaryventilation, Lung Compliance
	Nose and Paranasal sinuses			Development of Respiratory System (Nose & Paranasal sinuses)	Histology of Respiratory System I	Mechanics of pulmonary ventilation, Lung compliance	Pulmonary circulation & Pulmonary capillary dynamics. Physical principles of gas exchange & diffusion through respiratory membrane			
				Prof. Dr. Ayesha Yousaf (Even)	Assoct. Prof . Dr Mohtasham (Odd)	Dr. Faizania (Even)	Dr. Kamil (Odd)			
Date/Day	**8:00AM – 09:00 AM**	**09:00AM – 10:00 AM**	**10:00 AM – 11:00 AM**			**11:00 AM – 12:00 PM**				
18-10-2024 Friday	**MEDICINE (LGIS)**	**PBL 1 (SESSION I)**	**BIOCHEMISTRY (LGIS)**			**PHYSIOLOGY(LGIS)**		SDL Physiology Pulmonary circulation		
	Tuberculosis	PBL Team	PH, PKa, HendersonHasselbalch equation		Electron transportchain	Pulmonary circulation & Pulmonary capillary dynamics Physical principles of gas exchange& diffusionthrough respiratory membrane	Mechanics of pulmonary ventilation Lung compliance			
	Dr. Sana (Odd) / Dr. Sara (Even)		Dr. Isma (Even)		Dr. Aneela jamil (Odd)	Dr. Kamil (Even)	Dr. Faizania (Odd)			
19-10-2024 Saturday	**DISSECTION SGD**	**ENT (LGIS)**	**Break**	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical & CBL Topics & venue mentioned at the end	SDL Biochemistry Biochemistry role of buffers in pH regulation HH equation
	Larynx and trachea	Foreign body nose & ear &Tonsillitis		Histology of Respiratory system1	Development of Respiratory System (Nose & Paranasal sinuses)	Transport of oxygen	Pulmonary volumes,capacities & functions ofrespiratory tract			
		Dr. Sundus (Even) / Dr. Arshad (Odd)		Assoct. Prof. Dr Mohtasham (Even)	Prof. Dr. Ayesha (Odd)	Prof. Dr. Samia / Dr. Sheena (Odd)	Dr. Faizania (even)			
21-10-2024 Monday	**DISSECTION/SGD**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & CBL Topics & venue mentioned at the end	SDL AI Artificial Intelligence basic concepts
	Overview of thoracic wall			Histology of Respiratory system II	Development of Respiratory system (Trachea and Larynx)	Pulmonary volumes, capacities & functions of respiratory tract	Transport of oxygen			
				Assoct. Prof. Dr. Mohtashim (odd)	Prof. Dr. Ayesha (Even)	Dr. Faizania (Odd)	Prof. Dr. Samia / Dr. Sheena (even)			
22-10-2024 Tuesday	**DISSECTION/SGD**			**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & CBL Topics & venue mentioned at the end	SDL AnatomyNose paranasal sinus larynx and trachea
	Skeleton of thoracic wall (Ribs)			Electron transport chain	PH, pKa, Henderson Hassel Balch equation	Oxygen hemoglobin dissociation curve	Ventilation perfusionratio			
				Dr. Aneela Jamil (Even)	Dr. Isma (Odd)	Prof. Dr. Samia / Dr. Sheena (even)	Dr. Nayab (Odd)			
23-10-2024 Wednesday	**DISSECTION/SGD**			**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & CBL Topics & venue mentioned at the end	SDL Anatomy Skeleton of thoracic wall
	Joints of Thoracic Wall			Oxidative phosphorylation	Normal pH regulation by buffers	Ventilation perfusion ratio	Oxygen hemoglobin dissociation curve			
				Dr. Aneela Jamil(even)	Dr. Isma (Odd)	Dr. Nayab (even)	Prof. Dr. Samia / Dr. Sheena (Odd)			

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Discussion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Olfactory nasal mucosa/Epiglottis/ (Anatomy/ Histology-practical) venue Histology Laboratory (Dr. Kashif)
- HH equation (Biochemistry practical) venue- Biochemistry Laboratory
- Measurement of different lung volume & capacities with the help of spirometer (Physiology –practical) Physiology Laboratory

Topics for SGDs / CBL with Venue

- Biochemistry tutorial- Electron transport chain (Lecture Hall 03)
- Physiology CBL Wheeze/Stridor. (Lecture Hall 05

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Supervised by HOD	Physiology Practical		Physiology SGD		Supervised by HOD	Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat		E	Dr. Farid/ Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain		D	Dr. Uzma
Tuesday	D		C	Dr. Romessa		A	Dr. Sheena/ Dr..Nazia	B	Dr. Uzma/Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Romessa
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demonstrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demonstrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Qurat Ul Ain (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

First Year Timetable for Respiratory Module (Second Week)
24-10-2024 To 30-10-2024

Date/Day	8:00am – 09:00am	09:00 AM – 10:00am	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
24-10-2024 Thursday	**DISSECTION/SGD**		Break	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		Break	Practical & CBL Topics & venue mentioned at the end	SDL Physiology Lung volumes andcapacities
	Thoracic Apertures			Development of Respiratory system (Trachea and Larynx)	Histology of Respiratory system II	Transport of CO_2	Lung function test			
				Prof. Dr. Ayesha (Even)	Assoct. Prof. Dr. Mohtashim(Odd)	Prof.. Dr. Samia / Dr. Iqra ((even)	Dr. Faizania (Odd)			
Date/Day	**8:00am – 09:00am**	**09:00am – 10:00am**		**10:00am-11:00am**		**11:00am-12:00am**				
25-10-2024 Friday	**PBL 1 (SESSION II)**	**CLIMATE CHANGE**		**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		SDL Physiology Transport of Oxygen		
	PBL Team	Effects of Climate Changes on Body Systems (IHD, Skin Diseases & Heat Stroke)		NormalpH regulation by buffers	Oxidative phosphorylation	Lung function test	Transport of CO_2			
		Dr. Sidra Hamid / Dr. Maria Tasleem		Dr. Isma (even)	Dr. Aneela Jamil(Odd)	Dr. Faizania (even)	Prof. Dr. Samia / Dr. Iqra (Odd)			
26-10-2024 Saturday	**DISSECTION/SGD**		Break	**ANATOMY (LGIS)**		**PHYSIOLOGY LGIS**		Break	Practical & CBL Topics & venue mentioned at the end	SDL Biochemistry Role of buffers (chemical and physiological)
	Movements of Thoracic Wall & Intercostal Spaces			Histology of Respiratory system III	Development of Respiratory System (Lungs)	Respiratory abnormalities	Nervous regulation of respiration			
				Assoct. Prof. Dr. Mohtashim (even)	Prof. Dr. Ayesha (Odd)	Dr. Faizania (Even)	Prof. Dr. Samia / Dr. Kamil (Odd)			
28-10-2024 Monday	**DISSECTION/SGD**	**COMMUNITY MEDICINE**		**ANATOMY (LGIS)**		**PHYSIOLOGY LGIS**			Practical & CBL Topics & venue mentioned at the end	SDL Biochemistry pH meter and body buffers
	Diaphragm	Global warming and climate change		Development ofRespiratory system (Lungs)	Histology of Respiratory system III	Nervous regulation of respiration	Respiratory abnormalities			
		Dr. Rizwana (Odd) / Dr. Asif (Even)		Prof. Dr. Ayesha (even)	Assoct. Prof. Dr. Mohtashim(Odd)	Prof. Dr. Samia / Dr. Kamil (Even)	Dr. Faizania (Odd)			
29-10-2024 Tuesday	Early Clinical Exposure (ECE)									
30-10-2024 Wednesday	**DISSECTION/SGD**		Break	**ANATOMY (LGIS)**		**PHYSIOLOGY LGIS**		Break	Practical & CBL Topics & venue mentioned at theend	SDL Anatomy Movement of Thoracic Wall & Intercostal Spaces Online SDL Evaluation
	Diaphragm			Development of Respiratory system (Diaphragm)	Histology of Respiratory system IV	Hypoxia, hypercapnia, cyanosis	Chemical regulation of respiration & exercise changes			
				Prof. Dr. Ayesha (Even)	Assoct. Prof. Dr. Mohtashim(Odd)	Dr. Nayab (Even)	Prof.Dr. Samia / Dr. Kamil(Odd)			

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Discussion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Trachea (Anatomy/ Histology-practical) venue Histology Laboratory (Dr. Kashif)
- Buffers (Biochemistry practical) venue- Biochemistry Laboratory
- Recording of normal and modified movement of respiration (Stethography) (Physiology –practical) Physiology Laboratory

Topics for SGDs / CBL with Venue

- Biochemistry CBL-Acid based (Lecture Hall 03)
- Physiology CBL Crib Death. (Lecture Hall 05)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Supervised by HOD	Physiology Practical		Physiology SGD		Supervised by HOD	Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat		E	Dr. Farid/ Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain		D	Dr. Uzma
Tuesday	D		C	Dr. Romessa		A	Dr. Sheena/ Dr. Nazia	B	Dr. Uzma/Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Romessa
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demonstrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demonstrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Qurat Ul Ain (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

First Year Timetable for Respiratory Module (Third Week)
31-11-2024 To 06-11-2024

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
31-11-2024 Thursday	**DISSECTION/SGD** Vasculature of thoracic wall		Break	**FAMILY MEDICINE (LGIS)** Approach to a patient with cough hemoptysis & shortness of breath Dr. Sidra Hamid (Even) / Dr. Sadia Khan (Odd)	**PHYSIOLOGY (LGIS)** Chemical regulation of respiration & exercise changes / Hypoxia, hypercapnia, cyanosis Prof. Dr. Samia / Dr. Kamil(Even) / Dr. Nayab (Odd)		Practical & CBL Topics & venue mentioned at the end	SDL Physiology Chemical regulation of respiration & exercise changes
01-11-2024 Friday	**QURAN TRANSLATION – I** Immaniat- V & VI / Ibaadat-V Mufti Naeem (Even) / Molana Abdul Wahid (Odd)	**PBL 2 (SESSION I)** PBL Team		**ANATOMY (LGIS)** Thoracic Radiology Dr. Minahil	**PHYSIOLOGY (LGIS)** Hypoxia, hypercapnia, cyanosis / Chemical regulation of respiration & exercise changes Dr. Faizania (Even) / Prof. Dr. Samia /Dr. Kamil(Odd)	SDL Phys Hypoxia, hypercapnia, cyanosis iology		
02-11-2024 Saturday	**DISSECTION/SGD** ` Innervation of Thoracic Wall		Break	**BEHAVIOUR SCIENCES & BIOETHICS** Crises intervention and disasterConflict resolution and empathy Dr Muhammad Azeem Rao	**PHYSIOLOGY (LGIS)** Space physiology / Miscellaneous factors affecting respiration (concept of voluntary control of respiration, lung J receptor, brain edema, anesthesia, chyne stokes breathing, sleep apnea Dr. Fareed (Even) / Prof. Dr Samia / Dr. Kamil (Odd)	Break	Practical & CBL Topics & venue mentioned at the end	SDL Biochemistry Pyridoxine
04-11-2024 Monday	**DISSECTION/SGD** Pleura	**PATHOLOGY** Clinical disorders of Respiration Dr. Sara(Even) / Dr. Aasia(Odd)		**ANATOMY (LGIS)** Histology of Respiratorysystem IV / Development of Respiratorysystem (Diaphragm) Assoct. Prof. Dr. Mohtashim(Even) / Prof. Dr. Ayesha (Odd)	**PHYSIOLOGY (LGIS)** Miscellaneous factors affecting respiration (concept of voluntary control of respiration, lung J receptor, brain edema, anesthesia, chyne stokes breathing, sleep apnea / Space physiology Prof. Dr Samia / Dr. Kamil (Even) / Dr. Fareed (Odd)		Practical & CBL Topics & venue mentioned at the end	SDL Biochemistry Xenobiotic
05-11-2024 Tuesday	**DISSECTION/SGD** Diaphragm	**PBL 2 (SESSION II)** PBL Team		**BIOCHEMISTRY (LGIS)** Pyridoxin Pant ethnic acid biotin &Ribo flavin / Xenobiotics Dr. Almas (Even) / Dr. Uzma Zafar (Odd)	**PHYSIOLOGY (LGIS)** Deep sea physiology / High Altitude Physiology Prof. Dr. Samia /Dr. Nayyab (even) / Prof. Dr. Samia / Dr. Fareed (Odd)		Practical & CBL Topics & venue mentioned at the end	SDL AnatomyOf diaphragm
06-11-2024 Wednesday	**DISSECTION/SGD** Lungs	**COMMUNITY MEDICINE** Greenhouse effect Dr. Rizwana (Odd) / Dr. Asif (Even)		**BIOCHEMISTRY (LGIS)** Xenobiotics / Pyridoxin &Pantothenic acid biotin &Rib of Lavin Dr. Uzma Zafar(even) / Dr. Almas (Odd)	**PHYSIOLOGY (LGIS)** High AltitudePhysiology / \Deep sea physiology Prof. Dr. Samia /Dr. Fareed (even) / Prof. Dr. Samia /Dr. Nayyab (Odd)		Practical & CBL Topics & venue mentioned at the end	SDL Anatomy Lungs Online Clinical Evaluation

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Discussion (Biochemistry and Physiology)

Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

- Lungs (Anatomy/ Histology-practical) venue Histology Laboratory (Dr. Kashif)
- pH meter (Biochemistry practical) venue- Biochemistry Laboratory
- Clinical examination of chest for respiration (Physiology –practical) Physiology Laboratory

Topics for SGDs / CBL with Venue

- Biochemistry CBL – Vitamin biotin and pantothenic acid uncouplers (Lecture Hall 03)
- Physiology tutorial- physiology of unusual environmental (Lecture Hall 05)

Schedule for Practical / Small Group Discussion

Day	Histology Practical		Biochemistry Practical		Supervised by HOD	Physiology Practical		Physiology SGD		Supervised by HOD	Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name
Monday	C	Supervised by HOD	B	Dr. Rahat		E	Dr. Farid/ Dr. Ali Zain	A	Dr. Sheena/Dr. Ali Zain		D	Dr. Uzma
Tuesday	D		C	Dr. Romessa		A	Dr. Sheena/ Dr..Nazia	B	Dr. Uzma/Dr. Nazia		E	Dr. Almas
Wednesday	E		D	Dr. Uzma		B	Dr. Uzma/ Dr. Farhat	C	Dr. Fahd		A	Dr. Romessa
Thursday	B		A	Dr. Almas		D	Dr. Maryam/ Dr. Afsheen	E	Dr. Farid/ Dr. Ali Zain		C	Dr. Romessa
Saturday	A		E	Dr. Romessa		C	Dr. Fahd	D	Dr. Maryam/ Dr. Afsheen		B	Dr. Rahat

Table No. 2 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Anatomy Teacher	Venue
A	01-90	Dr Sajjad	New Lecture theatre complex no.2
B	91-180	Dr Ali Raza	Anatomy Lecture Hall No.03
C	181-270	Dr Zeneara	Anatomy Lecture Hall No.04
D	271- onwards	Dr Qurat ul Ain	New Lecture theatre complex no.3

Supervised by Prof. Dr. Ayesha Yousaf

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demonstrator Biochemistry)	6.	C2	(176-210)	Lecture Hall no.04 (Basement)	Dr. Nayab Zonish (PGT Physiology)
2.	A2	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah (Demonstrator of Physiology)	7.	D1	(210-245)	Lecture Hall no.02 (Basement)	Dr. Iqra Ayub (PGT Physiology)
3.	B1	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Rohina Khalid (Demonstrator Biochemistry)	8.	D2	(246-280)	Conference Room (Basement)	Dr. Muhammad Usman (PGT Physiology)
4.	B2	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Qurat Ul Ain (Senior Demonstrator of Anatomy)	9.	E1	(281-315)	New Lecture Hall no.01	Dr. Ramsha (PGT Physiology)
5.	C1	(141-175)	Lecture Hall no.05 (Basement)	Dr. Ali Zain (PGT Physiology)	10	E2	(315 onwards)	Lecture Hall no.04	Dr. Jawad Hassan (Demonstrator Physiology)

Table No. 6 Venues for Large Group Interactive Session (LGIS)

Odd Roll Numbers	New Lecture Hall Complex Lecture Theater # 03
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

First Year Timetable for Respiratory Module (Fourth Week)
07-11-2024 To 13-11-2024

DAY/ TIME	8:00AM-9:00AM
07-11-2024 Thursday	Assessment Week
08-11-2024 Friday	
09-11-2024 Saturday	
11-11-2024 Monday	
12-11-2024 Tuesday	
13-11-2024 Wednesday	

Next Week Will Be Assessment Week. The Detail of Assessment Week Will Be Shared Once Finalized.

SECTION-V

General Education Cluster Module (GEC)

Integrated Clinically Oriented Modular Curriculum for First Year MBBS

General Education Cluster Module Time Table

First Year MBBS

Session 2023-2024

Batch- 51

Time Table For General Educational Cluster (GEC) Module
(28-11-2024 to 04-12-2024)

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 09:50 AM	09:50 AM – 10:10AM	10:10 AM – 11:00 AM	11:00 AM – 11:50 AM	11:50 AM – 12:15	12:15 PM – 02:00 PM	04:00 PM – 06:00 PM
28-11-2024 Wednesday	**LEADERSHIP**	**ITC**		**ARTIFICIAL INTELLIGENCE (AI)**	**VIDEOGRAPHY**		**SDL**	
	Leadership Concepts	Introduction		Basic Concepts of AI	Fundamentals of Videography			
29-11-2024 Thursday	**LEADERSHIP**	**ITC**		**ARTIFICIAL INTELLIGENCE (AI)**	**VIDEOGRAPHY**		**Expository Writing**	
	Leading Groups & Teams	Application and System Software		Machine Learning	Camera Operation Basic			
30-11-2024 Friday	**LEADERSHIP**	**ITC**		**ARTIFICIAL INTELLIGENCE (AI)**	**VIDEOGRAPHY**			
	Group Leadership Exercise	Input & Output Devices		Deep Learning	Shot Composition Techniques			
01-12-2024 Saturday	**LEADERSHIP**	**ITC**		**ARTIFICIAL INTELLIGENCE (AI)**	**VIDEOGRAPHY**		**ENTERPRENEURSHIP**	**LEADERSHIP**
	Self Assessment	Storage Devices		Ethical Concentration	Introduction to Lighting		Prototype	Online Reflective Journaling
03-12-2024 Monday	**ITC**	**SDL**		**ENTERPRENEURSHIP**	**VIDEOGRAPHY**		**Expository Writing**	
	Types of Software			Ideate Initial Idea	Ethical Considerations in Media Production			
04-12-2024 Tuesday	**ITC**	**Expository Writring**		**ENTERPRENEURSHIP**	**VIDEOGRAPHY**		**ITC**	
	File Management / Internet and			Vision / Founder Fit	Basic Video Production		Internet & Emails	

Break

SECTION-VI

Learning Resources

Learning Recourses

Subjects	Resources
Core Subjects & Horizontal Integration Subjects	
Anatomy	**1. Gross Anatomy** 2. Gray's Anatomy by Prof. Susan Standring 42th edition, Elsevier. 3. Clinical Anatomy for Medical Students by Richard S. Snell 10th edition. 4. Clinically Oriented Anatomy by Keith Moore 9th edition. 5. Cunningham's Manual of Practical Anatomy by G.J. Romanes, 16th edition, Vol-I, II and III 6. http://www.anatomyzone.com 3D anatomy https://teachmeanatomy.info/ **B. Histology** 1. B. Young J. W. Health Wheather's Functional Histology 6th edition. 2. Medical Histology by Prof. Laiq Hussain 7th edition. 3. https://www.udemy.com/course/**histology**/ **C. Embryology** 1. Keith L. Moore. The Developing Human 11th edition. 2. Langman's Medical Embryology 14th edition.
Physiology	**A. Textbooks** 1. Textbook Of Medical Physiology by Guyton And Hall 14th edition. 2. Ganong ' S Review of Medical Physiology 26th edition. **B. Reference Books** 1. Human Physiology by Lauralee Sherwood 10th edition. 2. Berne & Levy Physiology 7th edition. 3. Best & Taylor Physiological Basis of Medical Practice 13th edition. 4. Guyton & Hall Physiological Review 3rd edition.
Biochemistry	**Textbooks** 1. Lippincott IIIustrated Reviews: Biochemistry – Wolters Kluwer 2. Harper's Illustrated Biochemistry 32th edition. 3. Lehninger Principle of Biochemistry 8th edition. 4. Biochemistry by Devlin 7th edition.
Community Medicine	**Textbooks** 1. Community Medicine by Parikh 25th edition. 2. Community Medicine by M Illyas 8th edition. 3. Basic Statistics for the Health Sciences by Jan W Kuzma 5th edition.

Pathology/Microbiology	**Textbooks** 1. Robbins & Cotran, Pathologic Basis of Disease, 10th edition. 2. Rapid Review Pathology, 5th edition by Edward F. Goljan MD. 3. http://library.med.utah.edu/WebPath/webpath.html
Pharmacology	**Textbooks** 1. Lippincot Illustrated Pharmacology 9th edition.
Spiral Integration Subjects & General Education Cluster Courses	
Bioethics	**Textbooks** 1. Textbook of Medical Ethics by Erich H. Loewy (Author)
Videography	The Five Cs of Cinematography by Joseph V. Mascelli Digital Video Production: A Comprehensive Guide by Anirban Das
Leadership	Leadership and the New Science by Margaret J. Wheatley A Treatise on Good Works by Martin Luther
Family Medicine	**Textbooks** 1. Textbook of Family Medicine" by Robert E. Rakel and David P. Rakel 2. Essentials of Family Medicine" by Philip D. Sloane, Lisa M. Slatt, and others 3. Textbook of Family Medicine" by Ian R. McWhinney 4. Family Medicine: Principles and Practice" by Robert B. Taylor
Islamiat & Pak Studies	Islamiyat Lazmi by Muhammad Khalil
Vertical Integration Subjects	
Medicine	**Textbooks** 1. Harrison's Principles of Internal Medicine by J. Larry Jameson, Anthony S. Fauci, and others 2. Davidson's Principles and Practice of Medicine by Stuart H. Ralston, Ian D. Penman, and others 3. Kumar and Clark's Clinical Medicine by Parveen Kumar and Michael Clark 4. Oxford Handbook of Clinical Medicine by Ian B. Wilkinson, Tim Raine, and others
Surgery	**Textbooks** 1. Bailey & Love's Short Practice of Surgery by Norman S. Williams, P. Ronan O'Connell, and Andrew W. McCaskie
Obsteterics & Gynecology	**Textbooks** 1. Obstetrics by Ten Teachers **2.** Gynaecology by Ten Teachers
Peadiatrics	**Textbooks** 1. Nelson Textbook of Pediatrics" by Robert M. Kliegman, Joseph St. Geme, and others

	2. "Textbook of Pediatrics" by A. Parthasarathy
Digital Resources	
Up To Date	https://www.uptodate.com/contents/search
RMU Digital library	http://www.digitallibrary.edu.pk/rmc.html
International Resources	
USMLE	https://www.usmle.org/
Plab	https://www.gmc-uk.org/registration-and-licensing/join-the-register/plab
U World	https://www.uworld.com/
Kaplan	https://mykaplan.co.uk/

SECTION-VII

Assessment

Assessment

Assessment is the systematic basis for making inferences about the learning and development of students. It is the process of defining, selecting, designing, collecting, analyzing, interpreting, and using information to increase students' learning and development.

Assessment Policy

This policy is applicable to all the students of the MBBS program of RMU for all modes of teaching (on campus/online/any other) from the date of approval by the RMU Academic Council.

1. **Guiding principles**

- RMU has the responsibility to ensure to all the stakeholders that students have achieved the identified outcomes of the medical degree course.
- Assessment requires a variety of methods; no single method can completely ensure that the requisite competence level has been achieved. Hence each assessment instrument must be selected based on its utility index.
- Feedback, ensuring that the feedback loop is closed, should be provided to students following all assessments to ensure that students identify gaps in their learning and faculty can review future curricular and assessment content.
- The quality of the entire assessment including confidentiality of the assessment process must be ensured.
- The assessment process should be clear and transparent so that students know in advance the expectations (from students) and consequences of the assessment.
- Details of the conduct of examinations are available in the Examination policy document.

2. **Purposes of assessment**

- Feedback to students regarding their readiness and deficiencies.
- To ensure appropriate competence has been achieved.
- Feedback to faculty to evaluate the effectiveness of the teaching program.

3. **Forms of assessments**

Formative Assessment

A formative assessment refers to a low-stakes assessment that does not normally contribute towards a student's final grade. A formative assessment may include summarizing the main points in a lecture or a weekly quiz to test comprehension of the reviewed content.

(assessment for learning) is carried out throughout modules and clerkships using various strategies (at the discretion of module coordinators and clerkship directors) feedback. Formative assessment performance may be taken as a continuous assessment.

Summative Assessment

A summative assessment is any method of evaluation performed at the end of a unit that allows a teacher to measure a student's understanding, typically against standardized criteria. Assessment of learning takes place at the end of modules/ blocks and clerkships and comprises of:

a. Written assessment (50%)

Multiple Choice Questions (MCQs)	40% Will be as USMLE format
Extended Match Questions (EMQ)	10%
Short answer questions (SAQs)	50%

b. Performance (Practical) assessment (50%)

Objective Structured Practical Examination (OSPE) Years I, II and III Objective Structured Clinical Examination (OSCE) Years IV - V Short cases will be included in OSCE

4. Assessment and their timings

- The module/ clerkship teams will be responsible for their assessment plan mentioning assessment strategies, timings, and other essentials (please refer to the individual plans).
- Students will be briefed about the pattern and scoring of the assessments before the examination.
- Professional examination will be taken by RMU.

5. Weekly LMS (learning management system) assessment of LGIS and SDL

- There will be weekly assessment of LGIS and SDL of whole week at end of week through LMS.
- The LMS result will be shared by module coordinator and DME through vice chancellor on weekly basis.

6. Eligibility to appear in End Block Assessment (EBA)

- This will be applicable to all the blocks of undergraduate program
- 90% attendance in each subject will be mandatory
- Student must pass in all LMS, mid module assessments to appear in EBA
- There will be no remedial classes for attendance compensation
- There will be no remedial of assessment after poor performance

7. Eligibility to appear in Pre-Annual Assessment (PAA)

- 90% attendance in each block is required to appear in PAA
- It is mandatory to appear in all EBA to appear in PAA
- Appraisal letter from head of departments will be needed to appear in pre-annual assessment.

8. Attendance policy

- 90% attendance in each block is required to appear in PAA
- There will be extra marks given as per rules.

- Attendance of the students will be shared by coordinator of module and DME through vice chancellor RMU on weekly basis.

90% and above	20 marks
80-89%	10 marks
70-79%	5 marks
Below 70%	-5 marks
Below 60%	-10 marks
Below 50%	-20 marks

- These marks will be counted in annual professional assessment.

9. Eligibility to appear in annual professional assessment

- Minimum 60% score in pre-annual assessment is required to appear in annual professional examination.
- Written and practical /OSPE/OSCE should be passed separately.

10. Passing criteria in annual professional examination

- 60% marks will be needed to pass annual professional examination.

11. Total break up of assessment score

- Annual professional exam weightage 70%
- Continuous internal assessment weightage 30%

Internal Assessment

Continuous Internal Assessment means the assessment based on continuous internal assessment (CIA) tests and assignments given to the students during an academic period.

Break up of internal assessment is as follows:

<table>
<tr><td colspan="4">Continuous Internal assessment (CIA) 100%</td><td>50% end block assessment (summative)</td></tr>
<tr><td colspan="2"><u>End module-I</u> (25%)
End module 10
LMS 03
Attendance 02</td><td colspan="2"><u>End block-1</u> (25%)
End block 10
LMS 03
Attendance 02</td><td></td></tr>
<tr><td colspan="4">Work place based assessment (WPBA) 50%
Further division of 50% WPBA</td><td></td></tr>
<tr><td>Ward test (50%)</td><td>Histories (20%)</td><td>Case presentation (10%)</td><td>Log books (10%)</td><td>Research (10%)</td></tr>
</table>

Once internal assessment is compiled it CANNOT be altered under ANY circumstance unless a clerical/ human error is detected. He will repeat classes and skills
There will be no change in calculated internal assessment scores for supplementary University examination.

12. Research publication marks

- Extra marks will be given to students who will publish research article in student journal, resident journal or faculty journal.
- These marks will be adjusted in viva.

Name of journal	Marks
Faculty journal	20 marks
Resident journal	15 marks
Student journal	10 marks

SECTION-VIII

Table of Specification (TOS) For Module Examination for First Year MBBS

Table of Specification (TOS) For Module Examination for First Year MBBS

Domains: C-Core Subject (70%) Levels C1-C2, HV- Horizontal & Vertical Integration (20%) Levels C2-C3, S- Spiral Integration (10%) Levels C2-C3

End of Module Assessment	Subject	Theory (Cognitive) Assessment																			Practical (Skill & Attitude) Assessment										Grand Total	Total Time of Module Assessment
		MCQs					EMQs			SAQs					SEQs				Marks	Total Marks Theory	Total Time	AV OSPE					Time	AED Reflective Writing	OSVE			Total Practical Marks		
		C	HV	S	Total	Marks	C	Total	Marks	C	HV	S	Total	Marks	C	HV	S	Total				C	HV	S	Total	Marks			Viva	Copy	Total			
First Module	Anatomy	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
	Physiology	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
	Biochemistry	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
Formative- Weekly LMS Based Assessment of 30 MCQs (10 MCQs per Subject)																																	

End of Module Assessment	Subject	Theory (Cognitive) Assessment																			Practical (Skill & Attitude) Assessment										Grand Total	Total Time of Module Assessment
		MCQs					EMQs			SAQs					SEQs				Marks	Total Marks Theory	Total Time	AV OSPE					Time	AED Reflective Writing	OSVE			Total Practical Marks		
		C	HV	S	Total	Marks	C	Total	Marks	C	HV	S	Total	Marks	C	HV	S	Total				C	HV	S	Total	Marks			Viva	Copy	Total			
Second Module	Anatomy	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
	Physiology	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
	Biochemistry	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
Formative- Weekly LMS Based Assessmen tof 30 MCQs (10 MCQs per Subject)																																	

Block	Subjects	LMS Based Assessment MCQs					OSPE						Grand Total	Total Block Time
							LabOSPE	IOSPE	COSPE	Total	Marks	Time		
		C	HV	S	Total	Time	C	HV	S					
BLOCK	Anatomy	21	6	3	30	30 min	14	4	2	20	60	6 HRS	90	10 HRS
	Physiology	21	6	3	30	30 min	14	4	2	20	60	6 HRS	90	10 HRS
	Biochemistry	21	6	3	30	30 min	14	4	2	20	60	6 HRS	90	10 HRS

50% Questions/OSPE Stations/Viva Stations will be from Foundation Module and 50% Questions will be from MSK-1 Module

For Each assessment student will have to individually pass Theory and Practical components

Marks per Item

MCQ=1	EMQ= 5	SAQ= 5	SEQ= 9	AVOSPE= 5		OSPE= 3

OSPE Time=1 Round of 40 Students =80 min

3 Round of 40 Students =240 min

OSVE=Time per student=5mins

Weekly LMS Assessment			
Subjects	Anatomy	Physiology	Biochemist
No of MCQs*	30	30	30
Marks/MCQ	30	30	30
*MCQ=1 Mark each, 1 min each			

SECTION-IX

Feedback And Evaluation

Feedback And Evaluation

Rawalpindi Medical University is dedicated to advancing equality, diversity, and inclusion across all its activities, processes, and cultural practices, in line with its Public Sector Equality Duties. This commitment encompasses promoting equality and diversity for everyone, regardless of any protected characteristic, working pattern, family circumstance, socio-economic background, political belief, or any other irrelevant distinction. Where pertinent to the policy, decision-making panels will ensure a reasonable gender balance (with at least one man and one woman) and will actively consider the representation of other protected groups.

Principles Feedback from students is essential to inform the development of the University's programmes and to help shape all aspects of their current and future learning and broader experience. The University actively seeks and encourages students to share their views. Our approach aims to create openness, responsiveness and a sense of partnership.

How feedback is received

- **Informal Feedback**

Informal feedback is received by day-to-day dialogue between students and staff,

- **Formal Feedback**

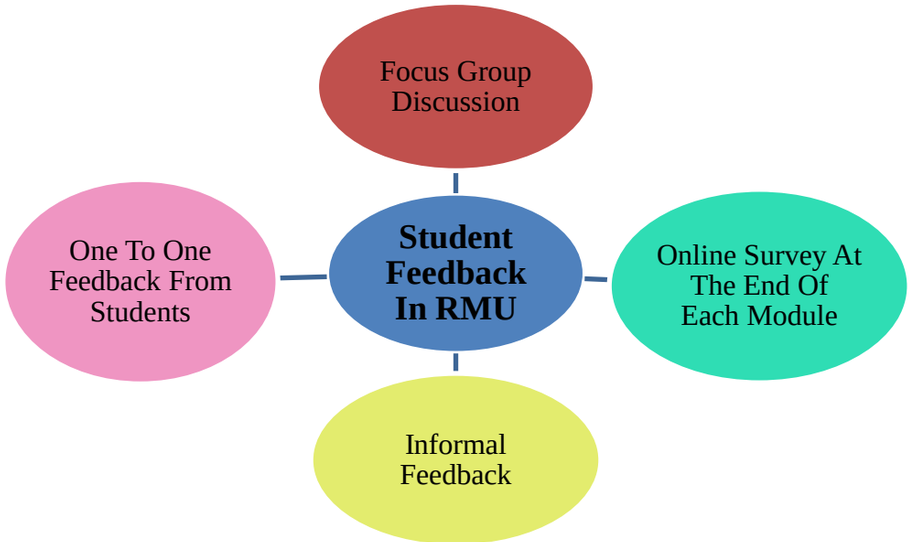
Feedback is received from students in more formal settings. These include:

- **Central survey campaign**

The University regularly invites students to participate in anonymous surveys (Appendix 1).

The central surveys take place after every module, after every Block and at the end of the academic year. This schedule enables the University to work in conjunction with the students and help to improve the teaching, learning and assessment methodologies.

- **Focus Group Discussion**
- **One To One Feedback from Students**



Appendix -I Student Feedback Proforma for 2024

(to be conducted after every module completion)

Module Content & Organization

Questionnaire	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
The module objectives were informed.					
At the beginning of module study guide was available.					
The module workload was manageable.					
The pace of the module was manageable.					
The module was well organized.					
Module started and ended on time.					
End of block feedback was taken					

Learning Environment and Teaching Methods

Questionnaire	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
Lectures were delivered appropriately.					
Labs were conducted appropriately.					
Small group discussions were conducted appropriately					
Teaching sessions were as per schedule.					
CBLs were conducted appropriately					
Faculty was cooperative.					
Learning resources were communicated clearly					
SGDs were standardized between different batches					

Quality of Delivery

Questionnaire	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
The module stimulated my interest.					
Ideas were presented clearly.					

Learning Resources

Questionnaire	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
Learning Material was provided / recommended.					
Learning Resources were available in the library.					
Digital / Web Based resources were available.					
Power points of lectures were available					

Student Contribution

Questionnaire	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
I participated actively in the module.					
I believe I have made progress in this module.					

Assessments

Questionnaire	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
Class tests were conducted regularly.					
Class tests were helpful					
Test difficulty was appropriate.					
Written Assessment was as per Table of Specifications.					
OSPE Exam was as per Table of Specification					
Table of Specification was shared					

LMS and its working

Questionnaire	Strongly Agree	Agree	Uncertain	Disagree	Strongly Disagree
Easy Access to LMS					
Module Content was Available					


TRUTH
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SERVICE
RMU