Rawalpindi Medical University Department of Medical Education (DME)

Study Guide Foundation Module 2024





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Prepared By	Reviewed By	Approved By
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RMU Motto



University Moto, Vision, Values & Goals

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 life long 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.

First Year MBBS 2024

Study Guide

Foundation Module

Integration of Disciplines in Foundation Module



Spiral / General Education Cluster Courses



Discipline Wise Details of Modular Content

Block	Module	General Anatomy	Embryology	Histology	Gross Anatomy		
Ι	• 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 Pagion 		
	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 S	Sessions			
	 Opening Ceremony (Introduction to Digit	(DME) al 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 The Holy Quran Translation Component					
Translation • Islam And Medical Science					
Introduction to Quran Translation					
Bioethics & Introduction to history of medical ethics					
Professionalism • Leadership Professionalism (DME)					
Artificial Intelligence Introduction to Artificial Intelligence					
Family Medicine Introduction to Family Medicine & its application in health care system					
Research I Introduction of health research process					
Integrated Under Research II characteristic of reserch process					
Graduate Research • Research III Basis of ethics in health research					
Innovation • Research IV Basics of ethics in medical reserch (IUGRC) • Research IV Basics of ethics in medical reserch					
Behavioral Sciences Introduction to Behavioral Sciences					
Management of stress					
Digital Literacy Module Module Module					
Life Style and Healthy Lifestyle: A Foundation for Medical Professionals					
Prevention Prevention					
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						

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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			Module Task Force Team		
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar	1.	Coordinator	Dr. Zenera Saqib (Demonstrator of Anatomy)
2.	Director DME	Prof. Dr. Rai Muhammad	2.	DME Focal Person	Dr. Sidra Hamid
		Asghar			
3.	Convener Curriculum	Prof. Dr. Naeem Akhter	3.	Co-coordinator	Dr. Qurat Ul Ain (Senior Demonstrator of Anatomy)
4.	Chairperson Anatomy & Dean Basic	Prof. Dr. Ayesha Yousaf	4.	Co-Coordinator	Dr. Uzma Kiyani (Senior Demonstrator of Physiology)
	Sciences				
5.	Additional Director DME	Prof. Dr. Ifra Saeed	5.	Co-coordinator	Dr. Nayab Ramzan (Senior Demonstrator of
					Biochemistry)
6.	Chairperson Physiology	Prof. Dr. Samia Sarwar			
7.	Chairperson Biochemistry	Dr. Aneela Jamil	DME Implementation Team		
			1.	Director DME	Prof. Dr. Rai Muhammad Asghar
8.	Focal Person Anatomy First Year	Asso. Prof. Dr. Mohtashim	2.	Implementation Incharge 1st & 2 nd	Prof. Dr. Ifra Saeed
	MBBS	Hina		Year MBBS & Add. Director DME	
9.	Focal Person Physiology	Dr. Sidra Hamid	3.	Assitant Director DME	Dr. Sidra Hamid
10.	Focal Person Biochemistry	Dr. Aneela Jamil	4.	Editor	Muhammad Arslan Aslam
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	Dr. Fahad Anwar			
	Lectures				
16.	Focal Person Family Medicine	Dr. Sadia Khan			

Module I - Foundation Module

Introduction: In the Foundation Module students will develop understanding of the basic concepts of cell Physiology, Biochemistry, Anatomy, Pathology, Pharmacology, Community medicine and study skills through an integrated course.

Rationale: The foundation module is designed to impart basic knowledge about the normal structure, organization, functions and development of human body. This knowledge will serve as a base on which the student will construct further knowledge about the etiology, pathogenesis and prevention of diseases; the principles of their therapeutics and management.

Module Outcomes

Each student will be able to:

Knowledge

- Acquire the basic science knowledge and terminology necessary to understand the development and functioning of normal structures of human body starting from biochemical level to organ system level, as well as the concepts of diseases in the community and drug dynamics. Use technology based medical education including
- Artifical Intelligence. Appreciate concepts & importance of:
- Family Medicine
- Biomedical Ethics
- Research.
- Enterpeneurship

Skills

- Identify different anatomical planes and correlate the importance of these with clinical medicine.
- Identify various apparatus used in lab.
- Preparation and identification of microscopic slides.
- Preparation of solutions of various strengths.
- Basic Life Support (BLS)
- Early Clinical Exposure (ECE)

Attitude

• Demonstrate professional attitude, team-building spirit and good communication skills.

This module will run in 6 weeks' duration. The content will be covered through introduction of topics. Instructional strategies are given in the timetable and learning objectives are given in the study guides. Study guides will be uploaded on the university website. Good luck!

SECTION - I

Terms & Abbreviations

Contents

- Domains of Learning
- Teaching and Learning

Methodologies/Strategies

- Large Group Interactive Session
 (LGIS)
- Small Group Discussion (SGD)
- Self-Directed Learning (SDL)
- Case Based Learning (CBL)
- Problem- Based Learning (PBL)
- Skill Labs/Practicals (SKL)

Tables & Figures

• Table1. Domains of learning according to Blooms

Taxonomy

- Figure 1. Prof Umar's Model of Integrated Lecture
- Table2. Standardization of teaching content in Small

Group Discussions

- Table 3. Steps of taking Small Group Discussions
- Figure 2. PBL 7 Jumps Model

Table1. Domains of Learning According to Blooms Taxonomy

Sr. #	Abbreviation	Domains of learning
1.	С	Cognitive Domain: knowledge and mental skills.
	• C1	Remembering
	• C2	Understanding
	• C3	Applying
	• C4	Analyzing
	• C5	Evaluating
	• C6	Creating
2.	Р	Psychomotor Domain: Motor skills.
	• P1	Imitation
	• P2	Manipulation
	• P3	Precision
	• P4	Articulation
	• P5	Naturalization
3.	А	Affective Domain: feelings, values, dispositions, attitudes, etc
	• A1	Receive
	• A2	Respond
	• A3	Value
	• A4	Organize
	• A5	Internalize

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.



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.

S. No	Topics	Approximate %
1	Title Of SGD	
2	Learning Objectives from Study Guides	
3	Horizontal Integration	24%
4	Core Concepts of the topic	60%
5	Vertical Integration	08%
6	Related Advance Research points	
7	Related Ethical points	08%
8	Artificial Intelligence	
9	Family Medicine	

Table 2. Standardization of teaching content in Small Group Discussions

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.

Th	The 7- Jump-Format of PBL (Masstricht Medical School)			
Step 7	Syntheise & Report			
Step 6	Collect Information from outside			
Step 5	Generate learning Issues			
Step 4 Discuss and Organise 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 – II

Learning Objectives, Teaching Strategies & Assessments

Contents

- Introduction to RMU and Disciplines
- Medical Education and Integrated Disciplines
- Horizontally Integrated Basic Sciences (Anatomy, Physiology & Biochemistry)
- Large Group Interactive Session:
 - Anatomy (LGIS)
 - Physiology (LGIS)
 - Biochemistry (LGIS)
- Small Group Discussions
 - Anatomy (SGD)
 - Physiology (SGD)
 - Biochemistry (SGD)
- Self Directed Topic, Learning Objectives & References
 - Anatomy (SDL)
 - Physiology (SDL)
 - Biochemistry (SDL)
- Skill Laboratory
 - Anatomy
 - Physiology
 - Biochemistry

Orientation Week

Introduction to RMU and Disciplines

	Medical Education and Integrated Disciplines					
Topic	Facilitator	Learning Objectives	Teaching Strategy	Assessment Tool		
Introduction to RMU and Allied Hospitals	Vice Chancellor	Honorable VC will welcome and introduce the University and Allied Hospitals.	LGIS	MCQS		
		The students will be able to:	1			
		Introduce DME				
Tutus de stien de Madient		Define Medical Education				
Education Department	Assistant Director	Discuss its role	_			
Introduction to Integrated	DME	Describe CME	LCIS	MCOS		
Modular System and		Appreciate role of DME in their curriculum	LGIS	MCQS		
Foundation Module		Appreciate role of DME in attendance monitoring	_			
		Illustrate the application	_			
		Leave submission process	_			
		• Outline the RMU Curriculum structural organization, (integrated modular				
		system)	_			
		Describe Learning resources used in study guides				
		Define Anatomy	_			
		Define Physiology	LCIS	MCOS		
Introduction to Basic	Lecture by HODs	Define Biochemistry		MCQS		
Sciences		Define Pathology	_			
		Define Community Medicine	_			
		Define Forensic Medicine	_			
		Define Pharmacology				
Introduction to	Lastura hy Doon	Define medicine	_			
Medicine & Allied	of Medicine &	Discuss History of medicine		MCOS		
Medicine & Amed	Allied	Describe Islamic concepts of medicine		MCQS		
	7 milea	Identify Basic sciences involved in medicine	4			
		Identify Clinical subjects and their role				

		Describe practice of medicine		
Introduction to Teaching		Differentiate between various Teaching & Learning strategies		
And Learning Strategies	Basic Science	Describe the process		
With Emphasis On	Team & DME	• Enlist different roles of students and facilitator in mentioned teaching sessions		
SGD/LGIS/TBL (Team			LGIS	MCQS
base learning)/PAL (Peer				
& Literature Search				
Introduction To Use Of		• Recall precautionary measures mandatory during practical sessions and skill lab		
Laboratory Facilities /	Team members	Recall safety measures during blood handling		
Equipment And Safety	(Biochemistry	Demonstrate use of various glass ware	LGIS	MCQS
Measures (Biochemistry	and Pathology)	Demonstrate use of lab instruments		
and Pathology)				
Study Skills I	Dehaviour	• Define study skills or study strategies (how to study?)		
Medical Educationist and	Science and DME	• Describe the:	LCIC	OCDE
Behavioral Sciences)	team member	Methods based on memorization such as rehearsal and rote learning	LGIS	OSPE
Benavioral Sciences)		Methods to retain the content in long term memory		
		Methods based on communication skills e.g., reading and listening		
		Principles of TBL & PAL		
		• Describe the:		
	Behaviour	• Methods based on condensing information, summarizing and the use of		
Study Skills-II	Science and DME	keywords	LGIS	MCQS
Study Skins-II	team member	Methods based on visual imagery		
		Methods based on acronyms and pneumonics		
		• Methods based on time management, organization and lifestyle changes		
Islam and Medical Science	Mufti Naeem sab	Discuss role of Islam and importance of Islam in Medical Science	LGIS	MCQS

Horizontally Integrated Basic Sciences (Anatomy, Physiology & Biochemistry)

Anatomy Large Group Interactive Session (LGIS)

Topic	Learning Objectives	Learning	Teaching	Assessment
	At The End Of One Hour The Lecture The Student Should Be Able To	Domain	Strategy	Tool
	Define the term Anatomy and its various branches	C1		
	Define different terminologies related to Anatomy	C1		
	• Describe different Anatomical planes and directions in relation to anatomical position	C2		
	Elaborate different phases in life span of man	C2	LCIC	SAQ
	Define basic tissues of human body	C1	LGIS	MCQ
	• Discuss general outlines and functions of basic tissues	C2		VIVA
Introduction to General	Describe formation of different systems of body	C2		
Anatomy	• Understand the curative and preventive health care measures.	C3		
	Practice the principles of bioethics	C3		
	• Apply the strategic use of artificial intelligence in healthcare	C3		
	Read relevant research article	C3		
	Use HEC digital library	C3		
	Embryology			
	Discuss significance and importance of studying Embryology.	C2		
	Define different terminologies to describe developmental stages.	C1		
	• Describe series of critical events that take place during embryonic development.	C2		
	Appreciate difference between embryonic and fetal period.	C2		
Introduction to Human	Discuss common chromosomal abnormalities.	C2	LCIS	SAQ MCO
Development	• Understand the curative and preventive health care measures.	C3	LOIS	VIVA
	• Apply the strategic use of artificial intelligence in healthcare.	C3		VI V / X
	Practice principles of bioethics	C3		
	• Use HEC digital library.	C3		
	Read relevant research article.	C3		
	Discuss role of female hormones during oogenesis	C2		
Oogenesis	Describe different stages of oogenesis	C2		SAQ
	Correlate clinical aspects of gametogenesis	C3	LGIS	MCQ
	• To understand the bio-physiological aspects of gametogenesis	C2		

	• Understand the curative and preventive health care measures.	C3		VIVA
	Apply the strategic use of artificial intelligence in healthcare	C3		
	Practice the principles of bioethics	C3		
	Use HEC digital library	C3		
	Read a relevant research article	C3		
	Define spermatogenesis.	C1		
	Describe different phases of spermatogenesis	C2		
a	Discuss stages of spermiogenesis	C2		SAQ
Spermatogenesis	Elaborate functions of male hormones during spermatogenesis	C2	LGIS	MCQ
	Understand the curative and preventive health care measures.	C3		VIVA
	Practice the principles of bioethics	C3		
	Apply the strategic use of artificial intelligence in healthcare	C3		
	Able to read a relevant research article	C3		
	Use HEC digital library	C3		
	Understand Ovarian and Uterine cycle	C1		
	Correlate Ovarian and Uterine cycles	C3	LGIS	SAQ
	Describe different phases of Ovarian and Uterine cycles	C2		
	Enumerate female sex hormones	C1		
Esmala Danna duativa	Discuss functional significance of female reproductive hormones in reproductive cycles	C2		MCQ
Cycles	Discuss the anovulatory cycle in female	C3		VIVĂ
Cycles	Understand the bio-physiological aspects female reproductive cycle	C2		
	Focus on provision of curative and preventive health care services	C3		
	Read a relevant research article	C3		
	Apply the strategic use of artificial intelligence in healthcare	C3		
	Use HEC digital library	C3		
	Describe follicular development, ovulation and subsequent events in ovary	C2		
	Give an account on role of leutinizing hormone in ovulation	C1		
Ovulation and	Discuss capacitation in female genital tract	C2		SAQ
Fertilization	Describe different phases and results of fertilization	C2	LGIS	MCO
	Enlist causes of infertility.	C1		VIVA
	Enlist different technologies of assisted fertilization	C1		•
	Discuss different techniques of assisted reproduction with special emphasis on IVF	C3]	
	Discuss the bio-physiological aspects of ovulation and fertilization	C2]	

	• Focus on provision of curative and preventive health care services.	C3		
	Practice principles of bioethics	C3		
	• Apply the strategic use of artificial intelligence in healthcare	C3		
	• Understand the curative and preventive health care measures.	C3		
	Read a relevant research article	C3		
	• Use HEC digital library	C3		
	Define cleavage	C1		
	Define compaction	C1		
	Describe blastocyst formation	C2		SAQ
Cleavage and	• Understand the bio-physiological aspects of cleavage and blastocyst	C2	LGIS	MCQ
Formation of	Correlate clinical condition of cleavage and blastocyst formation	C3		VIVA
Blastocvst	• Apply the strategic use of artificial intelligence in healthcare	C3		
	• Understand the curative and preventive health care measures.	C3		
	Practice principles of bioethics	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		
	• Describe the Sources of development of mammary gland.	C2		
	• Discuss different stages of activity of mammary gland .	C2		SAQ
	• Understand the bio-physiological aspects of mammary gland.	C2		
Development Of	Correlate clinical conditions of mammary gland	C3	LGIS	MCQ
Mammary Gland	• Apply the strategic use of artificial intelligence in healthcare	C3		VIVA
initial y change	Practice principles of bioethics.	C3		
	• Understand the curative and preventive health care measures.	C3		
	• Read a relevant research article;	C3		
	• Use HEC digital library.	C3		
	Histology			
Tupos of Epithalium	Define Epithelium	C1		
	• Discuss general features of Epithelial cells (basal, apical and lateral surfaces)	C2		SAQ
	Classify epithelium	C2	I GIG	MCQ
rypes or Epimenum	• Explain the histological structure of simple epithelium	C2	LGIS	VIVĂ
	• Describe the location and functions of simple epithelium	C2		
	Classify stratified epithelium.	C2	1	

	• Appreciate the differences between stratified and psuedostratified epithelium	C2		
	Describe characteristics of transitional epithelium	C2		
	Correlate clinical aspects of different types of epithelia	C3		
	• To understand the bio-physiological aspects of different types of epithelia	C3		
	Apply the strategic use of artificial intelligence in healthcare	C3		
	• Understand the curative and preventive health care measures.	C3		
	Practice principles of bioethics	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		
	Enumerate different apical modifications of cells	C1		
	Describe histological structure of each apical modification.	C2		
	Discuss functions of each type of apical modifications	C2		SAQ
	Correlate clinical aspects of Specializations of apical cell surfaces	C3	LGIS	MCO
Specializations of	• Understand the bio-physiological aspects of specializations of apical cell surface	C2		VIVĂ
Apical Cell Surface	Enlist causes of infertility.	C 1		
I	• Apply the strategic use of artificial intelligence in healthcare	C3		
	Practice principles of bioethics	C3		
	• Understand the curative and preventive health care measures.	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		
	Enumerate different cell junctions	C1		
T., (111	Describe histological structure of different cell junctions	C2		
Intercellular	• Understand the bio-physiological aspects of intercellular junctions and adhesions	C2	LCIC	SAQ
Adhesions	Apply the strategic use of artificial intelligence in healthcare	C3	LGIS	MCQ
7 Milestons	Practice principles of bioethics	C3		VIVA
	• Understand the curative and preventive health care measures.	C3		
	Read a relevant research article	C3		
	• Use HEC digital library	C3		
	• Define gland.	C1		
	• Compare between exocrine and endocrine glands with examples.	C2		SAQ
Glandular Epithelium	• Classify glands on the basis of morphology, secretory product, and mode of secretion.	C2	LGIS	MCO
	• Understand the bio-physiological aspects of glands.	C2		VIVÀ
	Practice principles of bioethics.	C3		-

	• Apply the strategic use of artificial intelligence in healthcare.	C3		
	• Understand the curative and preventive health care measures.	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		
	Describe the Sources of development of mammary gland	C2		
	Discuss the ultra structure of mammary gland	C2		SAQ
Development and	Discuss different stages of activity of mammary gland	C2	LGIS	MCQ
Histology Of Mommery Cland	Understand the bio-physiological aspects of mammary gland	C2		VIVA
Mainnai y Olanu	Correlate clinical conditions of mammary glands.	C3		
	Practice principles of bioethics	C3		
	• Apply the strategic use of artificial intelligence in healthcare	C3		
	• Understand the curative and preventive health care measures.	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		

Physiology Large Group Interactive Session (LGIS)

Topic	Learning Objectives At The End Of Lecture Students Should Be Able To:	Learning Domain	Teaching Strategy	Assessment Tools
Introduction to	Introduce faculty members	C1	8,	
Physiology &	Define physiology	C2		SAQ
Physiology	Classify different branches of physiology	C2	LGIS	MCQ
Department	• Explain the importance of physiology in medical and clinical sciences	C1	SGD	VIVA
	• Understand functional organization of human body from cell to systems	C2		
Cell physiology	Differentiate between prokaryotes and eukaryotes.	C2	LGIS	M SAQ
& Homeostasis	• Discuss salient features of cell theory	C2	SGD	MCQ
	• Define homeostasis	C1		VIVA
	• Describe homeostatic mechanisms of the major functional systems.	C1		
	Describe distribution of total body water	C1		
Concept of Body	• Enlist the proportion of intra cellular and extra cellular fluids.	C1	LGIS	SAQ
Fluid and	• Differentiate between ECF & ICF	C2	SGD	MCQ
	Recall Physical characteristics of normal ECF constituents	C1		VIVA

Internal Environment	• Understand the concept of internal environment (which student can differentiate for unicellular and multi cellular organisms.)	C2		
	• Describe the characteristic of control system of the body.	C1		
Homeostatic	• Enlist four control mechanisms of body	C1	LGIS	SAQ
Control System I	• Understand the mechanism of positive feedback, negative feedback, feed forward control and adaptive control with examples.	C2	SGD	MCQ VIVA
Homeostatic	Recall control mechanisms	C1		
Control System	• Give examples	C1		SAQ
II	Compare and contrast feed forward and adaptive mechanisms	C2	LGIS	MCQ
	Define gain of control system	C1	SGD	VIVA
	Comprehend gain of the control system	C2		
	• Calculate gain of the feedback system and understand the significance of sign in the formula	C3		
	Describe cytoskeleton & cell locomotion	C1	LGIS Group presentat	
Cellular	Discuss functions of cilia and amoeboid movement	C2		SAQ MCQ
organelles and	• Describe the mechanism of ATP generation	C1		
cell functions	• Enlist three major processes of ATP consumption in the body	C1		VIVA
	• Understand cell ingestion and other independent roles of cell	C2	ions	
	• Enlist functions of ER, golgi apparatus, lysosome & perxosome, mitochondria	C1		
	Compare and contrast RER & SER, lysosomes & peroxisomes	C2	LGIS	SAQ
Cell Membrane	Understand Docking mechanism	C2	SGD	MCQ
and Cell	Discuss physiological importance of mitochondria & ATP	C2	Group	VIVA
Organelles, I &	Describe the structure of cell membrane: fluid mosaic model	C1	ions	
II	Enlist functions of cell membrane	C1	10115	
	Enlist membrane bound and non-membrane bound organelles	C1	_	
	Differentiate between cytoplasm and cytosol	C2		
Cell membrane Ion channels,	• Enlist various types of ion channels	C1		
	Enumerate modes of transport mechanism across the cell membrane	C1	LGIS	SAQ
Transport across the cell	• Define and discuss factors affecting diffusion	C1	SGD	MCQ VIVA
Diffusion				

Transport across	• Recall transport mechanism across the cell membrane with special emphasis on osmosis and osmotic pressure	C1		SAQ
cell membrane:	Recall factors affecting osmosis	C1	LGIS	MCQ
Osmosis	Comprehend the concept of moles and osmoles	C2	SGD	VIVA
	Recall osmolarity of body fluids	C1		
	Discuss tonicity	C2		
	Comprehend concept of isotonic, hypertonic and hypotonic	C2		
Transport across	Define active transport	C1		
cell membrane:	Classify active transport	C2	LGIS	SAQ
Active transport I & II	• Comprehend various types of active transport with examples with special emphasis on Na-K	C2	SGD	MCQ VIVA
	Describe structure of nucleus and ribosome	C1		
	Discuss vaults	C2		
	Understand basic concepts about DNA and	C2	LGIS	SAQ
Structure of	• RNA	C1	PBL	MCQs
ribosomes	Recall various types of RNA and their functions	C1		VIVA
Cell Division	• Enlist and Draw steps of mitosis and meiosis	C2		
	• Comprehend role of different parts of chain of DNA as genes like TATA box			
Genetics	Define & Explain Genetics, Transcription & Translation			SAQ
Transcription &	Describe Genetic control of protein synthesis		LGIS	MCQs
Translation	Differentiate between apoptosis & Necrosis		PBL	VIVA
Cellular control	Describe different cellular control mechanisms regarding gene regulation	C1		
mechanism ,Cell	• Explain Cell differentiation, apoptosis and cellular changes in cancer	C2	LGIS	SAQ
cycle,			PBL	MCQs
Programmed cell				VIVA
death		<u>C1</u>		
communication	Describe the structure of various intracellular connections		LCIS	840
and cell	• Give the physiological importance of cell junctions	CI	SGD	MCO
iunctions			500	VIVA
Junetions	• Describe the various 2nd messenger systems	C1		SAO
Signal	 Discuss physiological significance 	C2	LGIS	MCQ
Transduction	r ,			VIVÂ

Biochemistry Large Group Interactive Session (LGIS)

Topic	Learning Objectives At the End Of Lecture Students Should Be Able To	Learning Domain	Teaching Strategy	Assessment Tool
Cell organelles				
Cell and cell organelles	 Explain composition of normal cell Describe methods to separate different organelles of cell Describe structure, functions and marker enzymes of ER & Golgi apparatus Describe structure, functions and marker enzymes of lysosome, peroxisome & ribosome Describe structure, functions and marker enzymes of mitochondria and Nucleus Illustrate the clinical conditions and congenital defects of cell organelles 	C2 C2 C2 C2 C2 C2 C2 C3	LGIS	MCQs, SAQs & Viva
Cell membrane and transport across cell membrane				
Cell membrane Functions of cell	 Explain composition of cell membrane Understand fluid mosaic model Describe functions performed by each component Discuss functions & importance of cell membrane 	C2 C2 C2 C2	LGIS	MCQs, SAQs & Viva MCQs,
membranes			LGIS	SAQs & Viva
Transport across cell membrane	 Explain transport of various substances by active and passive transport, diffusion, phagocytosis, endocytosis and exocytosis Correlate the clinical disorders with defective transport across cell membrane 	C2 C3	LGIS	MCQs, SAQs & Viva
Physicochemical properties of cell				
Osmosis, osmotic pressure	 Define osmosis and osmotic pressure. Discuss biochemical application of osmotic and oncotic pressure and methods to measure them. 	C1 C2	LGIS	MCQs, SAQs & Viva
and oncotic pressure	Correlate oncotic pressure with clinical scenarios	C3		
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Phenomenon of viscosity, surface tension, emulsification and adsorption	 Define phenomenon of viscosity, surface tension, emulsification and adsorption Explain Biochemical applications and methods to measure them 	C1 C2	LGIS	MCQs, SAQs & Viva
Donnan equilibrium, adsorption and ion exchange resins	 Define Donnan equilibrium, adsorption and ion exchange resins. Describe their effects on tissue fluids and biochemical importance 	C1 C2	LGIS	MCQs, SAQs & Viva
Water and pH	 Define pH, Pka, body buffer Discuss water distribution in the body Understand dehydration and overhydration 	C1 C2 C3	LGIS	MCQs, SAQs & Viva
	Enzymes	1	T	1
Enzymes Introduction	 Define Enzymes. Explain general functions of enzymes. Differentiate between coenzyme and cofactors 	C1 C2 C2	LGIS	MCQs, SAQs & Viva
Mechanism of enzyme action	• Describe different mechanisms of enzyme action.	C2	LGIS	MCQs, SAQs & Viva
Classification of enzymes	Discuss different classes of Enzymes	C2	LGIS	MCQs, SAQs & Viva
Properties of Enzymes	• Elaborate the Properties of Enzymes such as specificity for substrate and stereo specificity.	C2	LGIS	MCQs, SAQs & Viva
Factors affecting Enzyme action	• Discuss different factors which increase or decrease the activity of enzymes	C2	LGIS	MCQs, SAQs & Viva
Enzyme inhibitors	• Describe enzyme inhibitors and how the activity of the regulatory enzymes can be modulated for benefit of body	C2	LGIS	MCQs, SAQs & Viva

Enzyme Regulation	• Explain enzyme regulation	C2	LGIS	MCQs, SAQs & Viva
Diagnostic role of Enzymes	• Interpret the role of measuring activity of different enzymes in the diagnosis and prognosis of different diseases	C3 C3	LGIS	MCQs, SAQs & Viva
	• Interpret the role of Enzyme as medicine and their effects on body.			
	Genetics & Cancer			
Nucleic acids	• Explain structure and biological importance of DNA, types of DNA	C2		MCQs,
chemistry	Differentiate between DNA &RNA	C2	LGIS	SAQs &
	• Explain structure, types and functions of RNA	C2		Viva
Replication	Describe mechanism of replication of prokaryotes & Eukaryotes	C2	LGIS	MCQs, SAQs & Viva
Transcription	• Describe mechanism of Transcription of prokaryotes & Eukaryotes	C2	LGIS	MCQs, SAQs & Viva
	Discuss genetic code	C2		MCQs,
Translation	• Describe mechanism of Translation in prokaryotes & Eukaryotes	C2	LGIS	SAQs & Viva
	• Illustrate mechanism of action of antibiotics at different stages of translation	C3		
	Describe mechanism of DNA damage & Repair	C2		MCQs,
DNA damage & Repair	• Apply knowledge of DNA repair mechanisms in related clinical cases	C3	LGIS	SAQs & Viva
Mutations	• Describe different types of mutations with examples	C2	LGIS	MCQs, SAQs & Viva
PCR and Recombinant DNA technology	 Define PCR Explain mechanism and indications of PCR Discuss Recombinant DNA technology 	C1 C2 C2	LGIS	MCQs, SAQs & Viva

Cancer	Explain biochemical basis of cancer	C2	LGIS	MCQs, SAQs & Viva
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Anatomy Small Group Discussion (SGDs)

Demonstration/Dissection	At the End Of The Demonstration Student Should Be Able To	Learning	Teaching	Assessment
Anatomicomedical Terminology I	• Describe different anatomical planes of human body and correlate with radiological anatomy	C2	Strategy	MCO
	 Demonstrate anatomical position of human body 	Р	Skill lab	SAQ
(Anatomical Position and Planes)	Apply the strategic use of artificial intelligence in healthcare	C3 C3	SGD	VIVA OSPE
	 Practice principles of bioethics 			
	Read a relevant research article			
	Define different terms related to body parts	C1		
	Describe axis of movement	C2		
	• Demonstrate axis of movement	Р		
Anatomicomedical Terminology - II (Anatomical Terms and Axis of	• Strategic use of artificial intelligence in healthcare	C3		
	• Focus on provision of curative and preventive health care services	C3	Skill lab	MCQ SAQ
Movements)	Practice principles of bioethics	C3	500	VIVĂ
	• Apply the strategic use of artificial intelligence in healthcare	C3		OSPE
	• Understand the curative and preventive health care measures.	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		
	Define cell	C1		
	Define tissue	C1		
Anatomicomedical Terminology -	Describe basic tissues of human body	C2		MCQ
III (Cell and Tissues)	Practice principles of bioethics	C3	Skill lab	SAQ
	• Apply the strategic use of artificial intelligence in healthcare	C3	SGD	VIVA OSPE

	• Understand the curative and preventive health care services	C3		
	Read a relevant research article	C3		
	Use digital library	C3		
	Describe general organization of different systems of	C2		
Anatomicomedical Terminology-	body			MCQ
IV (Skin and Body Systems)	Discuss concepts of skin and fascia	C2	Skill lab	SAQ
	Describe the classification of blood vessels	C2	SGD	VIVA
	• Describe the concepts of divisions of nervous system	C1		OSPE
	Describe the formation of spinal nerve	C2		
	Practice principles of bioethics	C3		
	• Understand the curative and preventive health care	C3		
	measures.			
	Read a relevant research article	C3		
	• Apply strategic use of artificial intelligence in healthcare			
	Use HEC digital library	C3		
	Determine the side	C2		
	• Demonstrate anatomical position, general features, attachments and articulations (medial and lateral).	Р		
	Describe Intramembranous development and cleido- cranial dysostosis.	C3		MCQ
Clavicle	• Elaborate pectoral girdle formation movement and dislocation.	C3	Skill lab	SAQ VIVA
	• Describe ossification in detail and Fracture Of clavicle.	C2, C3	SGD	OSPE
	Practice principles of bioethics	C3		
	Apply the strategic use of artificial intelligence in healthcare	C3		
	• Understand the curative and preventive health care measures.	C3		
	• Use HEC digital library	C3		
	Read a relevant research article	C3		
	Determine the side	C2		
	• Demonstrate anatomical position, general features, attachments, and articulation. (clavicle and shoulder	Р		

	joints)			MCO
	• Describe scapular anastomosis and its clinical significance	C3	Skill lab	MCQ SAO
Scapula	Demonstrate Scapular movements.	Р	200	VIVA
-	Practice principles of bioethics	C3		OSPE
	• Apply the strategic use of artificial intelligence in healthcare	C3		
	• Focus on provision of curative and preventive health care services	C3		
	• Use HEC digital library.	C3		
	Read a relevant research article	C3		
	Determine the side	C2		
	• Demonstrate anatomical position, general features, attachments and articulation (shoulder and elbow).	Р		
	• Describe the importance of anatomical and surgical neck of humurus	C2		
Humerus	• Correlate axillary, radial, median and ulnar nerve damage with respect to various fractures of humerus.	C2		МСО
	Describe Significance of bicipital groove, angle of humeral torsion and carrying angle	C2	Skill lab	SAQ
	Discuss Ossification and fractures	C3	DOD	OSPE
	 Understand the curative and preventive health care measures. 	C3		
	• Apply the strategic use of artificial intelligence in healthcare	C3		
	Practice principles of bioethics	C3		
	Use HEC digital library	C3		
	Read a relevant research article	C3		
	• Describe Superficial fascia with cutaneous nerve and	C2		
	vessels of anterior axioappendicular region and tabulate			
	Industries of the anterior axioappendicular region	C1		
	axioappendicular region.	CI		
	Strategic use of artificial intelligence in healthcare	C3		MCQ

Anterior Axioappendicular Region	 Understand the curative and preventive health care measures Practice principles of bioethics Apply the strategic use of artificial intelligence in healthcare 	C3 C3	Skill lab SGD	SAQ VIVA OSPE
	• Use HEC digital library	C3	-	
	Read a relevant research article	C3		
	• Tabulate muscles of the pectoral region (origin, insertion, nerve supply, action and applied).	C2	Skill lab	MCQ
Posterior Axioappendicular	• Identify and describe the pectoral and clavipectoral fascia	C2	SGD	SAQ
Muscles	• Use HEC digital library	C3		VIVA
	• Understand the curative and preventive health care measures	C3		USPE
	• Apply the strategic use of artificial intelligence in healthcare	C3		
	Read a relevant research article	C3		
	• Define axilla	C2		
	• Describe its boundaries.	C2		
	• Enumerate the Contents of axilla, (axillary artery with its branches, axillary vein and tributaries, axillary lymphatics, lymph nodes and brachial plexus).	C2	Skill lab	MCQ SAQ
Axilla	• Describe the clinical significance of axillary lymph nodes	C3	SGD	OSPE
	Practice principles of bioethics	C3		OSIL
	• Understand the curative and preventive health care measures	C3		
	• Apply the strategic use of artificial intelligence in healthcare	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		
	• Describe the formation of brachial plexus its roots and trunks.	C2		
Brachial Plexus	• Describe the origin and root value of different nerves arising	C2		MCQ SAQ

	• Understand the curative and preventive health care measures	C3	Skill lab SGD	VIVA OSPE
	Practice principles of bioethics	C3		
	Apply the strategic use of artificial intelligence in healthcare	C3		
	Read a research article on brachial plexus	C3		
	• Use HEC digital library	C3		
	• Describe the different neurological deficits arising as a result of damaged to roots, trunks and branches of brachial plexus at different levels.	C3		
Brachial Plexus Injuries	• Describe the origin and root value of different nerves arising	C3	Skill lab	MCQ SAQ
	Read a research article on brachial plexus	C3	SGD	VIVA
	• Understand the curative and preventive health care measures	C3		OSPE
	Practice principles of bioethics	C3		
	• Apply the strategic use of artificial intelligence in healthcare	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		
	Describe the extent of breast	C2	_	
	Describe the relations of breast	C2	_	MCQ
	Describe structure of gland.	C2	_	
	• Discuss the blood supply, venous drainage and lymphatics.	C2		
	• Correlate Clinical picture and lymphatic spread in breast carcinoma.	C3	Skill lab	SAQ
Breast	Discuss congenital anomalies of breast	C3	SGD	OSPE
	Practice principles of bioethics	C3	1	ODIL
	Understand the curative and preventive health care measures	C3		
	Read a relevant research article	C3	1	
	• Apply the strategic use of artificial intelligence in healthcare			

	Use HEC digital library	C3		
Sternoclavicular and acromioclavicular joints	• Classify joints and discuss the attachment of capsule and ligaments and discuss the different movement on these joints along with muscles involved in these movements.	C2		
	Describe neurovascular supply.	C2	Skill lab	MCQ
	 Understand the curative and preventive health care measures Practice principles of bioethics 	C3	SGD	SAQ VIVA
		C3		USFE
	• Apply the strategic use of artificial intelligence in healthcare	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		
	• Discuss the surface anatomy of axioappendicular region.	C2		
	• Interpret the normal radiologic appearance of bones in axioappendicular region.	C3	Skill lab	MCQ
Surface Anatomy & Radiology	• Apply the strategic use of artificial intelligence in healthcare	C3	SGD	VIVA OSPE
	Practice principles of bioethics	C3		
	• Understand the curative and preventive health care measures	C3		
	Read a relevant research article	C3		
	Use HEC digital library	C3		

Physiology Small Group Discussion (SGDs)

Topic	Learning Objectives	Learning Domain	Teaching Strategy	Assessment Tools
	Understand functional organization of human body	C2		MCQ
Cell and homeostasis	Discuss homeostasis/control systems of the body	C2	SGD	SAQ
				VIVA
	Discuss the functions of cell	C2		MCQ
Cell cytoskeleton and locomotion and cell functions	Describe cell cytoskelation	C1	SGD	SAQ
				VIVA
	Describe the structure of cell membrane	C1		
	Enlist various ion channels	C1	SGD	MCQ

Transport across cell membrane	Discuss transport mechanism across the cell membrane with	C2		SAQ
	special emphasis on diffusion and osmosis			VIVA
	Explain the types of active transport	C2		
Intracellular communication and	Describe the structure and function of various intracellular	C1		MCQ
cell junction, signal transduction	connections	C2	SGD	SAQ
	Discuss second messanger system			VIVA

Biochemistry Small Group Discussion (SGDs)

Topic	Learning Objectives	Learning	Teaching	Assessment
		Domain	Strategy	Tools
	Explain Composition of Normal Cell & Cell Organelles	C2		MCQ
Cell and Cell	Describe Composition of Cell Membrane	C2	SGD	SAQ
Membrane	Understand Fluid Mosaic Model			VIVA
	Define osmosis and osmotic pressure.	C1		
	Discuss biochemical application of osmotic and oncotic pressure and methods to	C2	SGD	MCQ
	measure them.	C3		SAQ
Physicochemical	Correlate oncotic pressure with clinical scenarios			VIVA
Aspects of Cell	Define phenomenon of viscosity, surface tension.	C1		
	Explain Biochemical applications and methods to measure them.	C2		
	Define Donnan equilibrium, adsorption and ion exchange resins.	C1		MCQ
	Describe their effects on tissue fluids and biochemical importance	C2	SGD	SAQ
				VIVA

Anatomy Self Directed Learning (SDL)

Topics Of SDL	Learning Objectives	Learning Resources
	Determine the side	Clinical Oriented Anatomy by Keith L. Moore.8 TH
	• Demonstrate anatomical position, general features, attachments and articulations (medial	Edition. Clavicle (Chapter 3, Page143,153,154).
Clavicle	and lateral).	https://www.youtube.com/watch?v=Ykfzt-olaYs
	• Describe Intramembranous development.	
	• Describe ossification in detail and Fracture of Clavicle	
	Able to read a relevant research article	
Scapular	 Determine the side Demonstrate endomical position, general features, attachments and articulations (modial) 	Clinical Oriented Anatomy by Keith L. Moore.8TH
Anastomosis and	• Demonstrate anatomical position, general reatures, attachments and articulations (medial and lateral)	Edition. Scapula (Chapter 3, Page143-
Its Clinical	 Describe scapular anastomosis and its clinical significance 	145,154,171,172).
Significance	 Able to read a relevant research article 	https://www.youtube.com/watch?v=zFawNgaSL6E
Antorior	• Describe Superficial fascia with cutaneous nerve and vessels of anterior	 Clinical Oriented Anatomy by Keith L. Moore.8TH
avioannendicular	axioappendicular region.	Edition. Anterior axioappendicular muscles (Chapter
muscles	• Understand the bio-physiological aspects of anterior axioappendicular region.	3, Page 168,169).
muscies	Able to read a relevant research article and use digital library	https://teachmeanatomy.info/
Destarian	• Tabulate Muscles of the pectoral region (origin, insertion, nerve supply, action and	 Clinical Oriented Anatomy by Keith L. Moore.8TH
Posterior	applied).	Edition. Posterior axioappendicular muscles (Chapter
axioappendicular	 Identify and describe the pectoral and clavipectoral fascia. Able to read a relevant research article and use digital library. 	3, Page 170,171).
muscles	• Able to read a relevant research article and use digital library	https://teachmeanatomy.info/
11	• Define axilla	 Clinical Oriented Anatomy by Keith L. Moore.8TH
Axılla	• Describe its boundaries,	Edition. Axilla (Chapter 3, Page 183-190,197,198).
	• Enumerate the Contents of axilla, (axillary artery with its branches, axillary vein and	https://teachmeanatomy.info/
	tributaries, axillary lymphatics, lymph nodes and brachial plexus).	https://www.youtube.com/watch?v=uSMugI_NNJc
	Describe the formation of brachial plexus its roots and trunks.	 Clinical Oriented Anatomy by Keith L. Moore.8TH
Brachial plexus	• Describe the origin and root values of different nerves arising	Edition. Brachial plexus (Chapter 3, Page 191-196).
	Able to read a research article on brachial plexus	https://www.voutube.com/watch?v=1ggarXlpr1Y
	Able to use digital library	1
Drachial playur	• Describe the different neurological deficits arising as a result of damaged to roots, trunks and branches of brachial playus at different levels	Clinical Oriented Anatomy by Keith L. Moore.8TH
braciliar piexus	 Able to read a research article on brachial plexus 	Edition. Brachial plexus injuries (Chapter 3, Page
injunes		199-200).

		https://teachmeanatomy.info/
		https://www.youtube.com/watch?v=c9giLkwgYA0
Breast	 Describe the extent of breast Describe the relations of breast Describe structure of gland. Discuss related clinical 	 Clinical Oriented Anatomy by Keith L. Moore.8TH Edition. Breast (Chapter 4, Page 315-318,323-326). https://www.youtube.com/watch?v=OW0qQnT5GoA

Physiology Self Directed Learning (SDL)

Topics Of SDL	Learning Objectives	Learning Resources		
Concept of body fluids & internal environment.	 Introduction Concept of extracellular and intracellular fluid Homeostasis Examples of control system 	 Ganong's Review of Medical Physiology.25THEdition, General principles and Energy productionin Medical Physiology (chapter 01, Page 03) Human Physiology by Dee Unglaub Silver thorn. 8THEdition.Introduction to physiology, controlsystems and homeostasis, chapter no. 1, page no. 40.49 Physiology by Linda S. Costanzo 6th Edition. Cellular physiology, chapter 01. Page 1 Textbook of Medical Physiology by Guyton & Hall.14th Edition. Introduction to Physiology.(Section 01, Chapter 1, page 03). 		
Cell membrane & classification ofcell organelles	 Structure of cell membrane Cell cytoskeleton Cytoplasm and various organelles Golgi Apparatus and its function Lysosomes and peroxisomes Secretory vesicles 	 Ganong's Review of Medical Physiology.25THEditions, Overview of Cellular Physiology inMedical Physiology (chapter 02, Page33) Human Physiology by Dee Unglaub Silver thorn. 8TH Edition. Compartmentation, chapter 3, page95 Physiological Basis of Medical Practice by Best & Taylor's.13thEdition. The cell (chapter 01, section 1 Page 03, 18) Textbook of Medical Physiology by Guyton & Hall.14th Edition. Introduction to Physiology.(Section 1, chapter 03, page 31) 		
	 Receptors and its types Cellular signaling and various 	 Ganong's Review of Medical Physiology.25THEdition., Overview of Cellular Physiology inMedical Physiology (chapter 02, Page 33-44) 		

Intracellular communication and cell junction	 mechanisms Signal transduction Hormone receptors and their activation Second messenger mechanisms 	 Human Physiology by Dee Unglaub Silver thorn. 8THEdition. Compartmentation, chapter 3, page109 Physiology by Linda S. Costanzo 6th Edition. Gastrointestinal Physiology Physiological Basis of Medical Practice by Best & Taylor's.13th EditionThe cell (chapter 01, Page14) Textbook of Medical Physiology by Guyton & Hall.14thEdition. Introduction to Endocrinology.(Section 14, Page 920)
Receptors and signal transduction	 Receptors and its types Cellular signaling and various mechanisms Signal transduction Hormone receptors and their activation Second messenger mechanisms 	 Ganong's Review of Medical Physiology.25THEditions, Overview of Cellular Physiology inMedical Physiology (Chapter 02, Page 41) Human Physiology by Dee Unglaub Silver thorn. 8TH Edition. Communication, chapter 6, page204 Physiological Basis of Medical Practice by Best & Taylor's.13th Edition. Section 7, principles ofhormone action and endocrine control (Chapter 50, Page817) Textbook of Medical Physiology by Guyton & Hall.14th Edition. Introduction to Physiology.(Section 1, Chapter 02, page 13)
Homeostasis Control System- I (Negative Feedback System, Conceptof Error and Gain)	 Control systems of body Negative and positive feedback mechanism and their examples Apoptosis and necrosis 	 Ganong's Review of Medical Physiology.25THEdition, Overview of Cellular Physiology inMedical Physiology (Chapter 02, Page 62) Human Physiology by Dee Unglaub Silver thorn. 8TH Edition. Introduction to physiology, chapterno. 1, page no. 45 Textbook of Medical Physiology by Guyton & Hall.14th Edition. Introduction to Physiology.(Section 1, Chapter 1, page 04,07) (Chapter 03, Page 45)
Genetics, Transcriptionand Translation	 Building blocks of DNA Genetic code Process of transcription and translation Types of RNA Cell division 	 Ganong's Review of Medical Physiology.25THEdition, General principles and Energy productionin MedicalPhysiology (Chapter 01, Page 63) Textbook of Medical Physiology by Guyton & Hall.14thEdition. (Section 01, Chapter03, Page31)
Structure of Nucleus, Ribosomes andCell	 Structure of Nucleus Ribosomes Mitosis & Overview of cancer 	 Ganong's Review of Medical Physiology.25THEdition, Overview of Cellular Physiology inMedical Physiology (Chapter 02, Page42) Human Physiology by Dee Unglaub Silver thorn. 8THEdition.

Division		 Compartmentation, chapter 3, page100 Physiological Basis of Medical Practice by Best & Taylor's.13th Edition. the cell (Chapter 01,Page7,) Textbook of Medical Physiology by Guyton & Hall.14thEdition. (Section 01, Chapter02, Page 19)
Transport across cell membrane andits various types (osmosis, diffusion, primary and secondary active transport	 Types of transport across cell membrane Diffusion and osmosis Concept of gating of channels Primary active transport Secondary active transport 	 Ganong's Review of Medical Physiology.25THEdition, Overview of Cellular Physiology inMedical Physiology (Chapter 02, Page 45) Human Physiology by Dee Unglaub Silver thorn. 8TH Edition. Membrane dynamics chapter 5,page 160 Physiology by Linda S. Costanzo 6th Edition. Cellular physiology, chapter 1, page 5 Physiological Basis of Medical Practice by Best & Taylor's.13th Edition. Properties and functionsof cell membrane, chapter 2, page 18 Textbook of Medical Physiology by Guyton & Hall.14th Edition. Membrane Physiology. (Section02, Chapter04, Page51)

Biochemistry Self Directed Learning (SDL)

Topics Of SDL	Learning Objectives	Learning resources
Cell and cell organelles	 Explain composition of normal cell Describe methods to separate different organelles of cell Describe structure, functions and marker enzymes of ER & Golgi apparatus Describe structure, functions and marker enzymes of lysosome, peroxisome & ribosome Describe structure, functions and marker enzymes of mitochondria and Nucleus Illustrate the clinical conditions and congenital defects of cell organelles 	 Essentials of medical Biochemistry. Mushtaq Ahmad Vol – I 9th edition (chapter 1, page 3)
Cell membrane Transport across cell membrane	 Explain composition of cell membrane Understand fluid mosaic model Describe functions performed by each component 	 ♦ Harper's illustrated biochemistry 32nd edition (chapter 40 page - 460) ○ ♦ Harper's illustrated biochemistry 32nd

	 Explain transport of various substances by active and passive transport, diffusion, phagocytosis, endocytosis and exocytosis Correlate the clinical disorders with defective transport across cell membrane 	edition (Chapter 40 page 467)
Physichemical Aspects Osmosis, osmotic pressure and oncotic pressure	 Define osmosis and osmotic pressure. Discuss biochemical application of osmotic and oncotic pressure and methods to measure them. Correlate oncotic pressure with clinical scenarios 	 Essentials of medical Biochemistry. Mushtaq Ahmad Vol – I 9th edition (Chapter 02 page 46)
Phenomenon of viscosity, surface tension.	 Define phenomenon of viscosity, surface tension. Explain Biochemical applications and methods to measure them. 	 Essentials of medical Biochemistry. Mushtaq Ahmad Vol – I 9th edition (Chapter 02 page 52, 55)
Nuleic Acid Chemistry	 Define Donnan equilibrium, adsorption and ion exchange resins. Describe their effects on tissue fluids and biochemical importance 	 ○ ◆ Essentials of medical Biochemistry. Mushtaq Ahmad Vol – I 9th edition (Chapter 02 page 50)
Cancer	• Explain biochemical basis of cancer	 Essentials of medical Biochemistry. Mushtaq Ahmad Vol – I 9th edition (Chapter 6 page 168)
Diagonostics Role of Enzyme	• Interpret the role of Enzyme in diagnosis and their effects on body.	 Essentials of medical Biochemistry. Mushtaq Ahmad Vol – I 9th edition (Chapter 06 page 169) Lippincott Illustrated reviews of biochemistry 8th edition (Chapter 05 page 69)
Transciption	• Describe mechanism of Transcription of prokaryotes & Eukaryotes	 Lippincott Illustrated reviews of biochemistry 8th edition (Chapter 30 page 459)

Practical	At The End Of The Practical Student Should Be Able To	Learning Domains	Teaching Strategy	Assessment Tool
	• Identify different types of microscopes.	C1		
Introduction to	• Describe functions of different parts of microscope.	C1	Skill lab	OSPE
Microscope	• Identify different types of lenses.	C1	Demonstration	
	• Focus slides.	Р		
	• Classify epithelium.	C2		
Simple epithelium	• Illustrate different types of simple epithelium	Р	Skill lab	OSPE
	• Identify types of simple epithelium.	Р	Demonstration	
	• Write two points of identification	C1		
	Classify stratified epithelium.	C1		
Stratified epithelium	• Illustrate different types of stratified epithelium	C1	Skill lab	OSPE
/Transitional	• Discuss functions of stratified epithelium	C2	Demonstration	
Epithenum	• Enlist sites of specific type of epithelium	C2		
	Identify epithelium under microscope	C1		
	• Write two points of identification	Р		
	• Illustrate the different stages of activity of mammary gland	C2	Skill lab	
Mammary gland	• Identify the slides of different stages of mammary gland	Р	Demonstration	OSPE

Histology Practicals Skill Laboratory (SKL)

Physiology Practicals Skill Laboratory (SKL)

Topic	Learning Objectives	Learning Domain	Teaching Strategy	Assessment
Introduction to	• Identification of different parts especially focusing lenses and their uses	C1	Skill Lab	OSPE
Microscope	• Focusing technique of different blood slides e.g Neubauer's chamber TLC & DLC slides	Р		
Introduction to	• Identify the wintrobe and westergen tubes	C1		
Wintrobe & Westergen tube	• Should know the differences between two tubes and uses in different methods	Р	Skill Lab	OSPE
Apparatus identification	• Complete study of Neubauer's slide, calculation of volumes of corner squares and central squares	Р	Skill Lab	OSPE

(Introduction to Neubauer's chamber,	• Important differentiating points between WBC & RBC's pipettes	C1		
Red Blood Cell (RBC)	• How to dilute the two pipettes	Р		
pipettes& White Blood Cell (WBC) pipette	• Should know the composition of diluting fluids	C1		
Apparatus identification (Introduction to centrifuge machine)	• Be aware with the electrical connections of centrifuge machine and to control different speeds	P, A	Skill Lab	OSPE

Biochemistry Practicals Skill Laboratory (SKL)

Торіс	Learning Objectives At The End Of Practical Students Should Be Able To	Learning Domain	Teaching Strategy	Assessment Tool
Introduction to Laboratory precautions and glassware	Understand the use of laboratory glasswareState precautions while working in the laboratory	Р	Skill Lab	OSPE
Introduction of Laboratory equipments	• Describe parts and working of different laboratory equipments	Р	Skill Lab	OSPE
Physic chemical principals: emulsification and surface tension	• Demonstrate mechanism of surface tension and emulsification	Р	Skill Lab	OSPE
Physic chemical principals: tonicity and adsorption	 Demonstrate effects of solutions of different tonicity on red cells (isotonic, hypotonic and hypertonic) Illustrate process of adsorption. 	Р	Skill Lab	OSPE

SECTION - III

Orientation Sessions of Medical Education and Mangement Courses

Content

- 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)

Opening Ceremony (DME)

Program of Welcome Ceremony			
Sr. No.	Activity	Name	Time
1.	Seating of Students in Auditorium		8.00AM To 8:30AM
2.	Welcome words and announcement of	Dr. Sidra Hamid	9:00AM
	the Ceremony		
3.	Tilawat-e-Quran Pak	Dr. Fahad Anwar	9:05AM
4.	Haddiya-e-Naat	Mr. Waqar	9:10AM
5.	Invitation to distinguished guests on Sta	ige	9:15AM
6.	Vice Chancellor welcome address	Prof. Dr. Muhammad Umar	9:30AM
7.	Welcome address by Principal RMC	Prof. Dr. Jahangir Sarwar	9:45AM
		Khan	
8.	White Coat Ceremony	Prof. Dr Muhammad Umar	10:00AM
	(05 High achievers among boys)		
	(5 High achievers among girls)		
9.	Oath Taking	Prof. Dr. Muhammad Umar	10:15AM
10.	Welcome Note by Director DME	Prof. Dr Rai Muhammad	10:30AM
		Asghar	
11.	Introduction to IT services RMU by	Mr. Hafiz Shahid Rasool	10:45AM
	Director IT		
12.	Introduction to Hostel &	Prof. Dr. Naeem Zia	11:00AM
	Transportation		
	Concluding remark	ks by Dr. Sidra Hamid	

Medical Education

Topic	Topic Learning Objectives		Assessment
	At the end of the lecture the student should be able to	Strategy	Tool
	• Understand the concept of integration		
Orientation of Integrated	• Understand the orientation of integrated modular		
Modular system, Intoduction	curriculum of RMU	LGIS	MCOs
Policios	How to use Study Guides	LOIS	MCQS
Foncies	Introduction to different policies of RMU		
	• Discuss the concept of Continous internal assessment	I GIG	
Introduction to Assessment	• To comprehend the rules of eligibility of professional	LGIS	MCQs
Model of RMU	examination		
	• Introduction to LMS, CMS and MS Teams.		
	• Inrtorduction to RMU website	LGIS	MCQs
RMU Goes digital	• How to use HEC digital library		
	• How to use up to date website		
	• Discuss the vision and mission of RMU		
Vision & Mission	• Discuss the implications of under standing vision and	LGIS	MCQs
	mission of and organization		
	Define clinical leadership		
Leadership	• Differentiate between management and leadership	LGIS	MCQs
	Types of leadership style		
	Define medical professionalism		
	• Describe attributes of healer and professional	LGIS	MCQs
Professionalism	• Discuss the social contract of medical profession		
	• List values, skills and behavior for professionalism		
	• Receive and provide effective feedback	I GIG	
Lecture on feedback	• Describe types of feedback	LGIS	MCQs
	 Discuss principles of feedback 		
	Discuss essential elements of feedback		
Islam and Medical Science	• Discuss role of Islam and importance of Islam in		MGO
	Medical Science	LGIS	MCQs

Sr. No	Date/Day	Department	Time	Topic of Lectures	Teachers Name & Contact #
1	12-02-24 Monday	DME	08:30 AM – 11:00 AM	Opening Ceremony	Worthy VC RMU, Dean Basic Sciences, DME & DME team, Senior faculty
2	12-02-24 Monday	DME	11:00 AM -11:40 AM	Introduction to Integrated Modular Curriculum, Student Guide and RMU Policies	Dr Sidra Hamid 0331-5025147
3	12-02-24 Monday	Physiology	11:40 AM – 12:20 AM	Assessment Model of RMU And Continuous Internal Assessment	Prof. Dr Samia Sarwar
4	12-02-24 Monday	Family Medicine & Community Medicine	12:20 PM – 01:00 PM	Research Model Of RMU, Biomedical Ethics, Family Medicine, Artificial Intelligence	Dr. Sadia Khan 0343-8509230 Dr. Khula Noreen 0333-5386482
5	12-02-24 Monday	IT Department	01:00 PM – 2:00 PM	Introduction to Digital Services RMU	Hafiz Shahid Rasool (Director IT)
6	15-02-24 Thursday	DME/Bioethics	10.00 AM – 11:00 AM	Introduction to Different Teaching Strategies, Role of Team Leader Facilitator and Students SGD/LGIS/TBL/PAL/Internet & Literature Group activity	Dr Sidra Hamid 0331-5025147 Dr. Rizwana 0323-5375362
7	16-02-24 Friday	Islam And Medical Sciences/ Quran Translation	8.00 AM – 9.00 AM	Islam & medical science (Mulana AbdulWAhid) Introduction to Quran translation	Mufti Naeem Shairazi 0300-5580299 Mulana Abdul Wahid Abassi 0341-5444667
8	16-02-24 Friday	DME	10:00 AM – 11:00 AM	Leadership Professionalism: Dr. Arsalan Introduction to Medical Ethics: Dr. Sidra	Dr. Sidra Hamid 0331-5025147 Dr. Arsalan Mughal 0334-3911629
9	17-02-2024 Saturday	DME	10:00 AM – 11:00 AM	Leadership Professionalism: Dr. Arsalan	Dr. Sidra Hamid 0331-5025147 Dr. Arsalan Mughal 0334-3911629

Orientation Sessions and Mangement Courses lectures

				Intriduction to medical ethicsDr. Sidra Hamid	
10	19-02-2024 Monday	DME	10:00 AM - 11:50 AM	Entrepreneurship	Dr. Asif
11	23-02-24 Friday	Islam and medical sciences	09:00 AM – 10:00 AM	Introduction to Quran Translation Islam and medical sciences	Mufti Naeem Shairazi 0300-5580299 Mulana Abdul Wahid Abassi 0341- 5444667
12	01-03-2024 Friday	DME	9:00 AM - 10:00 AM	Lecture on feedback (Dr. Sidra Hamid) Mission and vision (Dr Arsalan	Dr Sidra Hamid 0331-5025147 Dr. Arsalan Mughal 0334-3911629
13	05-03-24 Tuesday	DME	10:00 AM - 11:00 AM	Lecture on feedback (Dr. Sidra Hamid) Mission and vision (Dr Arsalan	Dr Sidra Hamid 0331-5025147 Dr. Arsalan Mughal 0334-3911629

Introductory Lecture of Different Dicipilnes

Sr. #	Date/Day	Department	Time	Topic of Lectures	Teachers Name & Contact #
			Week	One	
1.	13-02-24	Behavioral	11:00 AM – 12:00 PM	Introduction to Behavioral Sciences	Prof. Dr. Asad Tamizudin
	Tuesday	Sciences			0333-5167705
2.	13-02-24	Pharmacology	12:00 PM - 01: 00 PM	Introduction to Pharmacology	Dr. Zaheer 0333-5716320
	Tuesday	& Pathology	(Even Roll No) 12:00 PM -01:00 PM (Odd Roll No) They will switch at 12:30pm	Introduction to Pathology	Dr. Mudassira 0307-239757
3.	14-02-24	Community	12:20 PM - 1:00 PM	Introduction to Health Research	Dr. Rizwana 0323-5375362
	Thursday	Medicine		Process and Researcher	Dr. Khula Noreen 03335386482
4.	14-02-24	Behavioral	10.00AM – 11:00 AM	Management of Stress	Dr. Sadia Tahir 0333-4746639
	Wednesday	Sciences			Dr. Zona Tahir 0315-5000055
5.	17-02-24	Medicine	11:00 AM - 12:00 PM	Introduction to Medicine	Dr. Sadaf Zaman 0334-5182252
	Saturday				Dr. Sana Ahmad 0322-4726427
			Week	<u>Fhree</u>	
6.	26-02-24	Medicine	10:00 AM – 11:00 AM	Introduction and History of medicine	Dr. Sualeha Imran 0336-5270575
	Monday				Dr. Ayesha Hijab 0331-2291113

SECTION - IV

Basic and Clinical Sciences (Vertical Integration)

Content

- CBLs
- Vertical Integration LGIS

Basic and Clinical Sciences (Vertical Integration)

Case Based Learning (CBL)

Subject	Topic	Learning Objectives	Learning
		At the end of the lecture the student should be able to	Domain
	• Fracture of clavicle	Apply basic knowledge of subject to study clinical case.	C3
Anatomy	• Winging of scapula due to long thoracic nerve injury	Apply basic knowledge of subject to study clinical case.	C3
	• Down's syndrome	Apply basic knowledge of subject to study clinical case.	C3
Physiology	• Smoker's cough	Apply basic knowledge of subject to study clinical case.	C3
	• Enzymes	Apply basic knowledge of subject to study clinical case.	C3
Biochemistry	Genetics/PCR	Apply basic knowledge of subject to study clinical case.	C3

Large Group Interactive Sessions (LGIS)

Pathology

Topic	Learning Objectives At the end of the lecture the student should be able to	Learning Domain	Teaching Strategy	Assessment Tools
Introduction to Pathology	 Define the following terms: Etiology Pathogenesis Morphology 	C1	LGIS SGD	MCQ
Cellular Responses to Injury	 Discuss cellular responses to injury for: Reversible injury Adaptation Irreversible injury Cell death Describe, the morphologic changes in cell injury culminating in 	C2 C2	LGIS SGD	MCQ
	• Describe, the morphologic changes in cell injury culminating in necrosis and apoptosis	C2		

Intracellular Accumulations	 Describe types of intracellular accumulations with clinical examples: Lipids/ fat Protein 	C2	LGIS SGD	MCQ
	• Glycogen			
	• Explain mechanism of intracellular accumulations	C2		
	Enlist causes of fatty change	C1	-	
	Describe the pathogenesis of fatty liver	C1	-	
	Classify pigments	C2		
	 Explain the mechanism of pigment production and deposition in various clinical settings 	C2		
Pigments	• Describe the morphological features (gross/ microscopic) with deposition of following pigments: Lipofuscin, Melani, Hemosiderin, Bilirubin, Anthracosis	C1	SGD	MCQ
Free Radicals/	1. Define ROS/free radicals	C1		
Reactive	2. Enlist oxygen derived free radicals	C1		MCQ
Oxygen	3. Describe mechanism of generation of free radicals	C2	LGIS	
Species (Ros).	4. Describe mechanism of removal of free radicals(antioxidants)	C2		
Oxidative Stress	5. Describe the pathologic effects of free radicals	C2	300	
Irreversible	Define necrosis	C1		
Injury.	• Enlist patterns/types with clinical examples	C1	LGIS	MCQ
Necrosis	• Describe morphological changes (gross and microscopic) in necrosis	C2	SGD	
	Define apoptosis	C1		
Apoptosis	Enlist clinical examples of apoptosis in	C1	LGIS	MCQ
(Irreversible	physiologic conditions		SGD	
Injury)	Enlist clinical examples of apoptosis in pathologic conditions	C1		
	Describe mechanism of apoptosis	C2		
	Tabulate differences between necrosis and apoptosis	C1		
	Classify human genetic disorders	C1		
Genetic	Define mutation	C1	LGIS	MCQ
Disorders	Define the following inheritance pattern: • Autosomal dominant	C1	SGD PBL	

Autosomal recessiveX-linked		
Describe diseases associated with consanguineous marriages	C2	

Pharmacology

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
	Define pharmacology	C1		
	Discuss main branches of Pharmacology	C2		
Introduction to	Define drug according to WHO	C1	LCIS	MCO
Pharmacology	Describe drug nomenclature	C1	LOIS	Meg
Tharmacology	Cite important drug references	C1		
	• Describe the sources of drug	C2		
	Enlist different routes of drug administration	C1		
Routes of drug	• Discuss the merits and demerits of each route of drug administration	C2	LGIS	MCQ
administration	• Identify the factors the influence the choice of the route of drug	C2		
	administration			
	Define drug absorption	C1		
Absorption of	Identify different sites of drug absorption	C1	LOIG	MCO
drugs	• Recall transport processes utilized by the drug for absorption across	C1	LGIS	MCQ
	different sites		-	
	•			
Factors	• Enlist drug and body related factors affecting drug absorption	C1		
affecting	• Briefly discuss different factors affecting drug absorption	C2	LGIS	MCQ
absorption of				
Distribution of	Define distribution of drug	C1		
	Define distribution of drug		LGIS	MCO
drugs	Furling distribution of drug through various hody comportments			
	• Explain distribution of drug through various body compartments		-	
	Enlist factors affecting distribution of drugs	CI		

Community Medicine

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
	• Describe Man and medicine towards health for all	C1		
Health for All	• Explain different eras of medicine	C1	LGIS	MCQS
	• Describe different systems of medicine	C1		
Genetics	Discuss Population Genetics	C1	LGIS	MCQS
	-		PBL	

Medicine

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the fecture the student should be able to	Domain	Strategy	1001
Medicine	 Define evidence-based Medicine 	C1		
Evidence based	• Discuss its applications.	C2	LGIS	MCQs
medicine	• Discuss components of EBM.	C2		
Bedside	• Explain how to take history of the patient and which	C2		
teaching	steps to follow		LGIS	MCQs
General	• Explain How to perform GPE	C2		
physical	• Discuss the importance of various signs	C2	LGIS	MCQs
examination	• Discuss its correlation with systemic examination	C2		

Surgery

Topic	Learning Objectives At the end of the lecture the student should be able to	Learning Domain	Teaching Strategy	Assessment Tool
History taking	• Enlist the components of a detail history	C1		
& its importance	Describe Importance of each component	C2	LGIS	MCQs
	Describe the extension of breast	C1		
Breast surgery	• Discuss different condition requiring breast surgery	C1	LGIS	MCQs
	• Enlist steps involved in breast surgery	C1		
	 Describe outcomes of breast surgery 	C1		

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
Introduction to Fertilization,	• Understand the process of conception and implantation.	C2	LGIS	MCQs
Implantation,	Know the importance of embryogenesis	C2		
embryogenesis,	Identify major structural abnormalities	C1		
congenital abnormalities	• Understand the factors involved in fetal structural abnormalities	C2	LGIS	MCQs

Obstetrics & Gynaecology

Peadiatrics

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
Medical Genetics	Describe the chromosomal abnormality and clinical			
& Dysmorphology	features of trisomy 21	C2	LGIS	MCQs

Sr. #	Date/Day	Department	Time	Topic of Lectures	Teachers Name & Contact #
				Week One	
1.	13-02-24 Tuesday	Behavioral Sciences	11:00 AM – 12:00 PM	Introduction to Behavioral Sciences	Prof. Dr. Asad Tamizudin 0333-5167705
2.	13-02-24	Pharmacology &	12:00 PM - 01: 00 PM	Introduction to Pharmacology	Dr. Zaheer 0333-5716320
	Tuesday	Pathology	(Even Roll No) 12:00 PM -01:00 PM (Odd Roll No) They will switch at 12:30pm	Introduction to Pathology	Dr. Mudassira 0307-239757
3.	14-02-24	Community	12:20 PM - 1:00 PM	Introduction to Health Research	Dr. Rizwana 0323-5375362
	Thursday	Medicine		Process and Researcher	Dr. Khula Noreen 03335386482
4.	14-02-24	Behavioral	10.00AM - 11:00 AM	Management of Stress	Dr. Sadia Tahir 0333-4746639
	Wednesday	Sciences			Dr. Zona Tahir 0315-5000055
5.	15-02-24	Community	1.00 PM - 2.00 PM	Characteristic of Research Process and	Dr. Rizwana 0323-5375362
	Thursday	Medicine		Health Research Process	Dr. Imran Younas 0345-5892287
6.	16-02-24 Friday	Pharmacology	11:00 AM - 12:00 PM	Route of Drug Administration	Dr. Zoefishan 0321-8826591
7.	17-02-24 Saturday	Medicine	11:00 AM - 12:00 PM	Introduction to Medicine	Dr. Sadaf Zaman 0334-5182252 Dr. Sana Ahmad 0322-4726427
8.	17-02-24	Community	1:00 PM - 2:00 PM	Research III: Basis of ethics in health	Dr. Rizwana 0323-5375362
	Saturday	Medicine		research	Dr. Muniba Iqbal 0335-5609069
				Week Two	
9.	21-02-24	Pathology	10:00 AM - 11:00 AM	Cellular Response to Injury	Dr. Abid 0300-5332565
	Wednesday				Dr. Ayesha 0311-5185989
10.	21-02-24	Pharmacology	11:00 AM - 12:00 PM	Absorption of Drugs	Dr. Arsheen 0335-5425558
	Wednesday				
11.	22-02-24	Pathology	8:00 AM - 9:00 AM	Intracellular accumulations	Dr. Abid 0300-5332565
	Thursday				Dr. Ayesha 0311-5185989

List of Foundation Module Basic and Clinical Sciences Vertical Integration Lectures

12.	23-02-24	Pharmacology	11:00 AM - 12:00 PM	Factors affecting drug absorption	Dr. Memuna 0333-0430482
	Friday				
23	24-02-24	Pharmacology	11:00 AM - 12:00 PM	Distribution of drugs	Dr. Uzma 0336-5178766
	Saturday				
			, i i i i i i i i i i i i i i i i i i i	Week Three	
24	26-02-24	Medicine	10:00 AM - 11:00 AM	Introduction and History of medicine	Dr. Sualeha Imran 0336-5270575
	Monday				Dr. Ayesha Hijab 0331-2291113
25	28-02-24	Pathology	9:00 AM - 10:00 AM	Pigments	Dr. Ayesha 0311-5185989
	Wednesday				Dr. Abid 0300-5332565
26	29-02-24	Pediatrics	8.00 AM – 9.00 AM	Medical genetics and Dysmorphology	Dr. Sadaf Ijaz 03335277579
	Thursday				Dr. Mamoona Qudrat 0333-
					5437579
27	01-03-24	Community	8.00 AM – 9.00 AM	Research IV. basics of ethics in	Dr. Rizwana 0323-53753632
	Thursday	Medicine		medical research	Dr. Muniba Iqbal 0335-5609069
			•	Week Four	
29	04-03-2024	Pathology	9:00 AM - 10:00 AM	Free radical and reactive oxygen	Dr. Ayesha 0311-5185989
	Monday			species	Dr. Abid 0300-5332565
31	06-03-24	Pathology	10:00 AM - 11:00 AM	Irreversible injury/necrosis	Dr. Ayesha 0311-5185989
	Wednesday				Dr. Abid 0300-5332565
32	08-03-24	Pathology	8:00 AM - 9:00 AM	Irreversible Cell Injury/Apoptosis	Dr. Ayesha 0311-5185989
	Friday				Dr. Abid 0300-5332565
				Week Five	
33	11-03-24	Medicine	11:00 AM – 11:50 AM	Chromosomal Abrasions	Dr. Madeha Nazar 0332-7777658
	Monday				Dr. Unaiza 0305-7910755
34	12-03-24	Gyne and Obs	11:00 AM - 11:50 AM	Introduction to fertilization,	Dr. Ammara Arooj 0331-5119677
	Tuesday			implantation, embryogenesis and	Dr. Maryum 0332-5390464
				congenital anomalies	
35	13-03-24	Pathology	9:00 AM - 9:50 AM	Genetic disorders	Dr. Ayesha 0311-5185989
	Wednesday				Dr. Abid 0300-5332565
36	15-03-24	Medicine	11:00 AM - 12:00 PM	History taking and general physical	Dr. Imran saeed 0333-5357955
	Friday			examination	Dr. Saima Mir 0343-5761430

SECTION - V

Spiral Courses

Content

- Longitudinal Themes
 - The Holy Quran Translation
 - Biomedical Ethics & Professionlism
 - Behavioural Sciences
 - Family Medicine
 - Artificial Intelligence (Innovation)
 - Integrated Undergraduate Research Curriculum (IUGRC)
 - Enterpeneurship
 - Digital Literacy Module
 - Early Clinical Exposure (ECE)

Introduction to Spiral Courses

The Holy Quran Translation

A course of Islamic Studies provides students with a comprehensive overview of the fundamental aspects of Islam, its history, beliefs, practices, and influence on society and familiarize students with a solid foundation in understanding the religion of Islam from an academic and cultural perspective. Ethics, in integrated form will shape the core of the course to foster among students the universal ethical values promoted by Islam

Bioethics

Biomedical ethics, also known as bioethics, is a field of study that addresses the ethical, social, and legal issues arising from medicine and the life sciences. It applies moral principles and decision-making frameworks to the practice of clinical medicine, biomedical research, and health policy. Biomedical ethics seeks to navigate the complex ethical dilemmas posed by advances in medical technology, research methodologies, and healthcare practices. Key areas of focus include patient rights and autonomy, confidentiality, informed consent, end-of-life care, resource allocation, and the ethics of genetic engineering, among others.

Biomedical ethics within medical universities plays a pivotal role in shaping the moral framework through which future healthcare professionals navigate the complex and often challenging decisions they will face in their careers. This critical discipline integrates ethical theories and principles with clinical practice, research, and healthcare policy, fostering a deep understanding of the ethical dimensions of medicine. By embedding biomedical ethics into the curriculum, Rawalpindi medical university equips students with the tools to critically analyze and address ethical dilemmas, ranging from patient confidentiality and informed consent to end-of-life care and the equitable distribution of healthcare resources.

This education goes beyond theoretical knowledge, encouraging students to apply ethical reasoning in practical scenarios, thus preparing them for the moral complexities of the medical field. Biomedical ethics also promotes a culture of empathy, respect, and integrity, ensuring that future medical practitioners not only excel in their technical skills but also uphold the highest ethical standards in patient care and research. Through seminars, case studies, and interdisciplinary collaborations, students are encouraged to engage in ethical discourse, reflecting on the societal impact of medical advancements and the responsibility of medical professionals to society. This foundational aspect of medical education cultivates a generation of healthcare professionals committed to ethical excellence, patient advocacy, and the pursuit of equitable healthcare for all.

Professionalism

Professionalism in medicine refers to the set of values, behaviors, and relationships that underpin the trust the public has in doctors and other healthcare professionals. It encompasses a commitment to competence, integrity, ethical conduct, accountability, and putting the interests of patients above one's own. Professionalism involves adhering to high standards of practice, including maintaining patient confidentiality, communicating effectively and respectfully with patients and colleagues, and continually engaging in self-improvement and professional development. It also includes a responsibility to improve access to high-quality healthcare and to contribute to the welfare of the community and the betterment of public health. In essence, professionalism in medicine is foundational to the quality of care provided to patients and is critical for maintaining the trust that is essential for the doctor-patient relationship.

Rawalpindi Medical University emphasizes the importance of professionalism in medicine, integrating it throughout its curriculum to ensure that students embody the core values of respect, accountability, and compassion in their interactions with patients, colleagues, and the community. This focus on professionalism is designed to prepare students for the complexities of the healthcare environment, instilling in them a deep sense of responsibility to their patients, adherence to ethical principles, and a commitment to continuous learning and improvement. Through a combination of theoretical learning, practical training, and mentorship, RMU encourages its students to exemplify professionalism in every aspect of their medical practice. Workshops, seminars, and clinical rotations further reinforce these values, providing students with real-world experiences that highlight the importance of maintaining professional conduct in challenging situations. RMU's approach to professionalism not only shapes competent and ethical medical professionals but also contributes to the broader mission of improving healthcare standards and patient outcomes. By prioritizing professionalism, Rawalpindi Medical University plays a crucial role in advancing the medical profession and ensuring that its graduates are well-equipped to meet the demands of a rapidly evolving healthcare landscape with honor and integrity.

Communication Skills

Communication skill for health professionals involves the ability to effectively convey and receive information, thoughts, and feelings with patients, their families, and other healthcare professionals. It encompasses a range of competencies including active listening, clear and compassionate verbal and non-verbal expression, empathy, the ability to explain medical conditions and treatments in an understandable way, and the skill to negotiate and resolve conflicts. Effective communication is essential for establishing trust, ensuring patient understanding and compliance with treatment plans, making informed decisions, and providing holistic care. It directly impacts patient satisfaction, health outcomes, and the overall efficiency of healthcare delivery

At Rawalpindi Medical University (RMU), the development of communication skills is regarded as a fundamental aspect of medical education, recognizing its critical importance in enhancing patient care, teamwork, and interdisciplinary collaboration. RMU is dedicated to equipping its students with exceptional communication abilities, enabling them to effectively interact with patients, their families, and healthcare colleagues. The curriculum is thoughtfully designed to incorporate various interactive and experiential learning opportunities, such as role-playing, patient interviews, and group discussions, which allow students to practice and refine their communication skills in a supportive environment.

By integrating communication skills training throughout its programs, RMU not only enhances the interpersonal competencies of its future healthcare professionals but also contributes to improving the overall quality of healthcare delivery. Graduates from RMU are distinguished not just by their clinical expertise but also by their ability to connect with patients and colleagues, making them highly effective and compassionate practitioners.

Behavioral Sceinces

Behavioral sciences in medicine focus on understanding and addressing the psychological and social aspects of health and illness. This interdisciplinary field combines insights from psychology, sociology, anthropology, and other disciplines to enhance medical care and patient outcomes. It explores how behavior, emotions, and social factors influence health, disease, and medical treatment. By incorporating behavioral science principles into medical practice, healthcare professionals can better understand patients' perspectives, improve communication, and promote positive health behaviors, ultimately contributing to more comprehensive and effective patient care.

Family Medicine

Family medicine is a medical specialty dedicated to providing comprehensive health care for people of all ages and genders. It is characterized by a long-term, patient-centered approach, building sustained relationships with patients and offering continuous care across all stages of life. It focuses on treating the whole person within the context of the family and the community, emphasizing preventive care, disease management, and health promotion.

The Family Medicine Curriculum at Rawalpindi Medical University (RMU) marks a significant stride towards holistic healthcare education, aiming to prepare medical graduates for the comprehensive and evolving needs of family practice. This curriculum is designed to offer a broad perspective on healthcare, focusing on preventive care, chronic disease management, community health, and the treatment of acute conditions across all ages, genders, and diseases. Emphasizing a patient-centered approach, the curriculum ensures that students develop a deep understanding of the importance of continuity of care, patient advocacy, and the ability to work within diverse community settings.

RMU's Family Medicine Curriculum integrates theoretical knowledge with practical experience. Students are exposed to a variety of learning environments, including community health centers, outpatient clinics, and inpatient settings, providing them with a well-rounded understanding of the different facets of family medicine. This hands-on approach is complemented by interactive sessions, workshops, and seminars that cover a wide range of topics from behavioral health to geriatric care, ensuring students are well-equipped to address the comprehensive health needs of individuals and families.

Artificial Intelligence

To realize the dreams and impact of AI requires autonomous systems that learn to make good decisions. Reinforcement learning is one powerful paradigm for doing so, and it is relevant to an enormous range of tasks, including robotics, game playing, consumer modeling and healthcare. This class will provide a solid introduction to the field of reinforcement learning and students will learn about the core challenges and approaches, including generalization and exploration. Through a combination of lectures, and written and coding assignments, students will become well versed in key ideas and techniques for RL. Assignments will include the basics of reinforcement learning as well as deep reinforcement learning — an extremely promising new area that combines deep learning techniques with reinforcement learning. In addition, students will advance their understanding and the field of RL through a final project.

Integrated Undergraduate Research Curriculum

The integrated undergraduate research curriculum (IUGRC) of RMU occupies a definite space in schedule of each of the five years in rational and incremental way. It has horizontal harmonization as well as multidisciplinary research work potentials. In the first-year teachings are more introductory & inspirational rather than instructional. The teachings explain what & why of research and what capacities are minimally required to comprehend research & undertake research. Some research dignitaries' lecture are specifically arranged for sharing their experiences and inspiring the students. Students are specifically assessed through their individual compulsory written feedback (reflection) after the scheduled teachings end.

Entrepreneurship

Entrepreneurship is the process of designing, launching, and running a new business, which typically starts as a small enterprise offering a product, process, or service for sale or hire. It involves identifying a market opportunity, gathering resources, developing a business plan, and managing the business's operations, growth, and development.

Entrepreneurship in medical universities represents a burgeoning field where the innovative spirit intersects with healthcare to forge advancements that can transform patient care, medical education, and healthcare delivery. This unique amalgamation of medical expertise and entrepreneurial acumen empowers students, faculty, and alumni to develop groundbreaking medical technologies, healthcare solutions, and startups that address critical challenges in the health sector. By integrating entrepreneurship into the curriculum, Rawalpindi Medical university is not only expanding the traditional scope of medical education but also fostering a culture of innovation and problem-solving. This enables future healthcare professionals to not only excel in clinical skills but also in business strategies, leadership, and innovation management.

Such initiatives often lead to the creation of medical devices, digital health platforms, and therapeutic solutions that can significantly improve patient outcomes and make healthcare more accessible and efficient. Through incubators, accelerators, and partnerships with the industry, medical universities are becoming hotbeds for healthcare innovation, driving economic growth, and contributing to the broader ecosystem of medical research and entrepreneurial success.

Digital Literacy Module

Digital literacy means having the skills one needs to live, learn, and work in a society where communication and access to information is increasingly through digital technologies like internet platforms, social media, and mobile devices.

Early Clinical Exposure (ECE)

Early clinical exposure helps students understand the relevance of their preclinical studies by providing real-world contexts. This can enhance motivation and engagement by showing students the practical application of their theoretical knowledge. Early exposure allows students to begin developing essential clinical skills from the start of their education. This includes not only technical skills but also crucial soft skills such as communication, empathy, and professionalism. Direct interaction with patients early in their education helps students appreciate the complexities of patient care, including the psychological and social aspects of illness. Early exposure to various specialties can aid students in making informed decisions about their future career paths within medicine.

Early clinical experiences contribute to the development of a professional identity, helping students see themselves as future physicians and understand the responsibilities and ethics associated with the profession. This can help reduce the anxiety associated with clinical work by familiarizing students with the clinical environment. It can build confidence in their abilities to interact with patients and healthcare professionals. Engaging with real-life clinical situations early on encourages the development of critical thinking and problem-solving skills, which are essential for medical practice. It helps bridge the gap between theoretical knowledge and practical application, leading to a more integrated and holistic approach to medical education. It allows students to observe and understand how healthcare systems operate, including the challenges and limitations faced in different settings.: Early patient interaction emphasizes the importance of patient-centered care from the outset, underscoring the importance of treating patients as individuals with unique needs and backgrounds. Practical experiences can enhance long-term retention of knowledge as students are able to connect theoretical learning with clinical experiences.: Early clinical experiences often involve working in multidisciplinary teams, which fosters a sense of collaboration and understanding of different roles within healthcare.

In summary, early clinical exposure in medical education is pivotal for the holistic development of medical students, providing them with a strong foundation of practical skills, professional attitudes, and a deep understanding of patient-centered care.

The Holy Quran Translation lecture

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
Introduction to Quran Translation	• Understand and apply ethical considerations in Quranic translation.	C2	LGIS	SAQ
Islam and medical sciences	• Co-relate Islamic concepts given in various verses of The Holy Quran with Medical Sciences	C2	LGIS	SAQ

Biomedical Ethics & Professionlism

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
Introduction to History	• To appraise the historical perspective of Hippocratic oath	C2 C2	LGIS	MCQs
of Medical Ethics	• Understanding the beginnings of contemprory bioethics to address ethical dilemmas			

Behavioral Sciences

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
Introduction to Behavioral Sciences	• To describe Holistic and Traditional Allopathic medicine.	C1	LGIS	MCQs
Management of stress	• Define the types of stress, its causes and management of stress	C1		

Family Medicine

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
Introduction to Family Medicine & its application in health care system	 Describe presenting complaints of patients with body aches Disscus complications of body aches Descirbe intial treatment of patients with body aches Know when to refer patient to consultant/ Hospital 	C3	LGIS-1	MCQs

Artificial Intelligence (Innovation)

Topic	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
Introduction to Artificial Intelligence	 Discuss fractures of upper limb with their clinical significance. Discuss role of artificial intelligence in interpretation of radiographs 	C2	LGIS	MCQS

Life Style and Prevention

Торіс	Learning Objectives	Learning	Teaching	Assessment
	At the end of the lecture the student should be able to	Domain	Strategy	Tool
Healthy Lifestyle: A Foundation for Medical Professionals	 Understand the components of a healthy lifestyle. Recognize the challenges of maintaining a healthy lifestyle as medical students. Develop strategies to incorporate healthy habits into their routines. 	C2	LGIS	MCQS
Integrated Undergraduate Research Curriculum (IUGRC)

Topic	Learning Objectives	Learning	Teaching	Assessment	
	At the end of the lecture the student should be able to	Domain	Strategy	Tool	
Theoretical Lecture Based Teachings					
T . 1 . 1	Define Community Medicine, public health, preventive medicine	C1			
Introduction to	Differentiate Community medicine and preventive medicine	C2			
Community	Elaborate evolution of preventive medicine/public health	C2			
Medicine	Discuss role of public health in prevention of diseases	C2			
	Discuss importance of public health	C2			
	Define Health Research & Concept of Health research methods.	C1			
Introduction to	• Understand background and value of research in health & human development	C2			
Health Research	• Elaborate Fundamental types and fields of health research covering;	C2			
process and	- Basic & Applied Research	C2			
researcher	- Quantitative & Qualitative Research				
(Research-1)	- Collaborative & Multidisciplinary research				
	- Health Research triangle		LCIS 1	MCOs	
	• Conceptualize the drivers of research Including;	C2	L015-1	MCQS	
	- Curiosity				
	- Health needs				
	- Opportunity Profit				
	• Describe meanings of HR & HRM				
	Appreciate role of HR in healthcare practices and human development	C2			
	• Differentiate among various types and fields of HR	C2			
	• Explain different drivers of HR	C2			
	• Explain meanings of various characteristics of health research process so as to	C2			
Characteristics of	• Differentiate research activity from non-research activity.	C2			
research methods	Elaborate ingredients of researcher		LGIS-2	MCOs	
(Research-II)	• Appreciate the importance of commands in certain pre-requisite subjects &	C2			
	skills before undertaking a research study.				
	Define Health Research	C1			
	• Discuss the criteria for selection of a research topic	C2			

	• Elaborate the types of variable	C2		
	• Differentiate between qualitative and quantitative data	C2		
	• Appreciate value of ethics in conduct of Health Research.	C2		
Basics of Ethics in	• Explain basic ethical principles of health research.	C2		
Health Research	Interpret the application of data collection ethics			
(Research-III)	• Explain ethics of research methods	C2		
	• Narrate responsibility for ethics in HR.	C2	LGIS-3	MCQs
Basics of Ethics in	• Explain Nuremburg code and importance of ethics in current research trends.	C2		
(Research-IV)	• Elaborate General ethical principles including explanation of 04 basic principles of Beneficence, non-maleficence, respect and justice	C2		
Five steps of EBM	Discuss Five steps of EBM	C2	LGIS-3	MCQs

Enterpreneurship

Topics	Brief Note	Learning Outcomes
Ideate Initial Idea	How it would create value	Understand the concept of ideation in the entrepreneurial context. Learn techniques for generating creative and innovative business ideas. Develop skills to evaluate and refine initial ideas for feasibility and viability.

Digital Literacy Module

Topic	Topic Learning Objectives		
	At the end of the lecture the student should be able to	Strategy	Tool
RMU Goes digital	 Introduction to LMS, CMS and MS Teams. Inrtorduction to RMU website How to use HEC digital library How to use up to date website 	LGIS	MCQs

Sr. No	Date/Day	Department	Time	Topic of Lectures	Teachers Name & Contact #
4	12-02-24 Monday	Family Medicine & Community Medicine	12:20 PM - 01:00 PM	Research Model Of RMU, Biomedical Ethics, Family Medicine, Artificial Intelligence	Dr. Sadia Khan 0343-8509230 Dr. Khula Noreen 0333-5386482
5	12-02-24 Monday	IT Department	01:00 PM – 2:00 PM	Introduction to Digital Services RMU	Hafiz Shahid Rasool (Director IT)
7	16-02-24 Friday	Islam And Medical Sciences/ Quran Translation	8.00 AM – 9.00 AM	Islam & medical science (Mulana AbdulWAhid) Introduction to Quran translation	Mufti Naeem Shairazi 0300-5580299 Mulana Abdul Wahid Abassi 0341-5444667
8	16-02-24 Friday	DME	10:00 AM – 11:00 AM	Leadership Professionalism: Dr. Arsalan Introduction to Medical Ethics: Dr. Sidra	Dr. Sidra Hamid 0331-5025147 Dr. Arsalan Mughal 0334-3911629
9	17-02-2024 Saturday	DME	10:00 AM – 11:00 AM	Leadership Professionalism: Dr. Arsalan Intriduction to medical ethicsDr. Sidra Hamid	Dr. Sidra Hamid 0331-5025147 Dr. Arsalan Mughal 0334-3911629
10	19-02-2024 Monday	DME	10:00 AM – 11:50 AM	Entrepreneurship	Dr. Asif
11	23-02-24 Friday	Islam and medical sciences	09:00 AM – 10:00 AM	Introduction to Quran Translation Islam and medical sciences	Mufti Naeem Shairazi 0300-5580299 Mulana Abdul Wahid Abassi 0341-5444667

List of Foundation Module Spiral Courses Lectures

SECTION - VI

Assessment Policies

Contents

- Assessment plan
- Types of Assessment:
- Modular Examinations
- Block Examination
- Table 4: Assessment Frequency & Time in Foundation Module



Gauge for Continuous Internal Assessment (CIA)

Red Zone	High Alert	Yellow Zone	Green Zone	Excellent	Extra Ordinary
0 - 25%	26 - *50%	51 - 60%	61 - 70%	71 - 80%	81 - 100%

60% and above is passing marks

Gauge for attendance percentage

Red Zone	High Alert	Yellow Zone-1	Yellow Zone-2	Green Zone	Excellent
0 - 25%	26 - 50%	51 - 60%	61 - 74%	*75 - 80%	81 - 100%

90% is eligibitly criteria for appearing in professional examination.

Assessment plan

University has followed the guidelines of Pakistan Medical and Dental Council for assessment. Assessment is conducted at the mid modular, modular and block levels.

Types of Assessment:

The assessment is formative and summative.

Formative Assessment	Summative Assessment
Formative assessment is taken at modular $(2/3^{rd})$ of the module is complete)	Summative assessment is taken at the mid modular (LMS Based), modular
level through MS Teams. Tool for this assessment is best choice questions	and block levels.
and all subjects are given theshare according to their hour percentage.	

Modular Assessement

Theory Paper	Viva Voce
There is a module examination at the end of first module of each block. The	Structured table viva voce is conducted including the practical content of
content of the whole teaching of the module are tested in this examination.	the module.
It consists of paper with objective type questions and structured essay questions.	
The distribution of the questions is based on the Table of Specifications of the	
module. (Annexure I attached)	

Block Assessement

On completion of a block which consists of two modules, there is a block examination which consists of one theory paper and a structured viva with OSPE.

Theory Paper	Block OSPE
There is one written paper for each subject. The paper consists of objective type	This covers the practical content of the whole block.
questions and structured essay questions. The distribution of the questions is	
based on the Table of Specifications of the module.	

Block		Module – 1Type ofTotal Assessments Time		nents Time	No. of Assessments			
	Sr #	Foundation Module Components	Assessments	Assessment	Summative	Formative		
				Time	Assessment	Assessment		
					Time	Time		
	1	Mid Module Examinations LMS based (Anatomy,						
		Physiology & Biochemistry)	Summative	30 Minutes				
	2	Topics of SDL Examination on MS Team	Formative	30 Minutes				
	3	End Module Examinations (SEQ & MCQs Based)	Summative	3 Hours 45				
				Minutes				
I	4	Anatomy Structured and Clinically Oriented Viva	Summative	15 Minutes –	3 Hour 15	45 Minutes	2 Formative	6 Summative
ck-				20 minutes	Minutes			
Blo	5	Physiology Structured & Clinically oriented Viva						
		voce	Summative	10 Minutes				
	6	Biochemistry Structured & Clinically oriented Viva		10 Minutes –				
		voce	Summative	15 minutes				
	7	Assessment of Clinical Lectures	Formative	15 Minutes]			
	8	Assessment of Bioethics Lectures	Summative	2 Minutes				
	9	Assessment of IUGRC Lectures	Summative	10 Minutes				

Table 4-Assessment Frequency & Time in Foundation Module I

Learning Resources

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

	Textbooks
Pathology/Microbiology	1. Robbins & Cotran, Pathologic Basis of Disease, 10 th edition.
	2. Rapid Review Pathology, 5 th edition by Edward F. Goljan MD.
	3. http://library.med.utah.edu/WebPath/webpath.html
Pharmacology	Textbooks
	1. Lippincot Illustrated Pharmacology 9 th edition.

SECTION - VII

Time Table

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				Ν	Module Task Force Team
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar	1.	Coordinator	Dr. Zenera Saqib (Demonstrator of Anatomy)
2.	Director DME	Prof. Dr. Rai Muhammad Asghar	2.	DME Focal Person	Dr. Sidra Hamid
3.	Convener Curriculum	Prof. Dr. Naeem Akhter	3.	Co-coordinator	Dr. Qurat Ul Ain (Senior Demonstrator of Anatomy)
4.	Chairperson Anatomy & Dean	Prof. Dr. Ayesha Yousaf	4.	Co-Coordinator	Dr. Uzma Kiyani (Senior Demonstrator of Physiology)
	Basic Sciences				
5.	Additional Director DME	Prof. Dr. Ifra Saeed	5.	Co-coordinator	Dr. Nayab Ramzan (Senior Demonstrator of Biochemistry)
6.	Chairperson Physiology	Prof. Dr. Samia Sarwar			
7.	Chairperson Biochemistry	Dr. Aneela Jamil		D	ME Implementation Team
			1.	Director DME	Prof. Dr. Rai Muhammad Asghar
8.	Focal Person Anatomy First Year	Asso. Prof. Dr. Mohtashim Hina	2.	Implementation Incharge 1st &	Prof. Dr. Ifra Saeed
	MBBS			2 nd Year MBBS & Add.	
				Director DME	
9.	Focal Person Physiology	Dr. Sidra Hamid	3.	Assitant Director DME	Dr. Sidra Hamid
10.	Focal Person Biochemistry	Dr. Aneela Jamil	4.	Editor	Muhammad Arslan Aslam
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	Dr. Afifa Kulsoom			
	Medicine				
15.	Focal Person Quran Translation	Dr. Uzma Zafar			
	Lectures				
16.	Focal Person Family Medicine	Dr. Sadia Khan			

Image: Introduction to General Anatomy General Embryology General Histology Anatomicomedical Terminologies I (position & planes) Image: Introduction to General Anatomy Introduction to Human Development of Apical Cell Surface Anatomicomedical Terminologies II (Anatomical Terms and Axis of Movements) Image: Introduction to Human Development of Anatomy Intercellular Junction and Adhesions Anatomicomedical Terminologies II (Cell and Tissues) Image: Intercellular Junction and Cell Reproductive Cycles or Cleavage and Blastocyst Formation - Development of Mammary Gland Intercellular Junction - Development of Mammary Gland Anatomicomedical Terminologies II (Cell and Tissues) Image: Intercellular Junction - Development of Mammary Gland Development of Mammary Gland Intercellular Junction - Development of Mammary Gland Anatomicomedical Terminologies IV (Skin & Body Systems) Image: Intercellular Junction - Development of Mammary Gland Development of Mammary Gland Mammary Gland Anatomicomedical Terminologies IV (Skin & Body Systems) Image: Intercellular Junction - Development of Mammary Gland Development of Mammary Gland Mammary Gland Anatomicomedical Terminologies IV (Skin & Body Systems) Image: Intercellular Junction - Development of Mammary Gland Image: Intercellular Junction - Development of Mammary Gland Brachial Plexus Anatomicomedical Terminologies IV Image: Intercellular Junction - Development of Mammary Gland	Block	Module	General Anatomy	Embryology	Histology	Gross Anatomy				
• 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 • Physiology • Genetic Control of Protein Synthesis, Cell Function, And Cell Reproduction	Ι	• 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 				
 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 		• Biochemistry	 Mistry Cell and Cell Organelles, Cell Membrane and Transport Across Cell Membrane, Physicochemical Properties, Enzymes, Cancer, Nucleic Ac Chemistry, Genetics 							
Transport of Substances Through the Cell Membrane Orientation Sessions		Physiology	 Functional Orga The Cell and Its Genetic Control Transport of Sul 	nization of The Human Body and Contro Functions of Protein Synthesis, Cell Function, And bstances Through the Cell Membrane Orientation	l of the "Internal Environmer Cell Reproduction Sessions	1t				
Opening Ceremony (DME)		Opening Ceremony	(DME)							
 Introduction to Digital Services Of RMU Introduction to Integrated Modular Curriculum, Study Guide sand RMU Policies 		Introduction to DigIntroduction to Inte	ital Services Of RMU grated Modular Curricu	ulum, Study Guide sand RMU Policies						

Discipline Wise Details of Modular Content

• Research Model of RM	U (IUGRC), Biomedical Ethics Family Medicine, Artificial Intelligence	
• Introduction to Differen	It Teaching Strategies, Role of Team Leader Facilitator and Students SGD/LGIS/TBL/PAL/INTERNET & Literature Group activity (D)	ME)
• Orientation to Integrate	d Modular System for Pre-clinical Years (DME)	
• Lecture on Feedback (I	DME)	
• Mission and Vision (DI	ME)	
Introduction to Pharma	cology	
• Introduction to Patholo	σv	
Introduction to Commu	nity Medicine (Community Medicine)	
 Introduction to Medicir 	e (Medicine)	
	Spiral Courses	
• The Holy Ouran	The Holy Ouran Translation Component	
Translation	Islam And Medical Science	
	Introduction to Quran Translation	
• Bioethics &	Introduction to history of medical ethics	
Professionalism	Leadership Professionalism (DME)	
Artificial Intelligence	Introduction to Artificial Intelligence	
Family Medicine	Introduction to Family Medicine & its application in health care system	
	Research I Introduction of health research process	
Integrated Under	Research II characteristic of reserch process	
Graduate Research	• Research III Basis of ethics in health research	
$(\mathbf{H} \mathbf{G} \mathbf{R} \mathbf{C})$	• 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.	
• Life Style and	Healthy Lifestyle: A Foundation for Medical Professionals	
Prevention		
	Vertical Integration	
Clinically content relev	ant to Foundation module	
Kouts of drug administr	ation (Pharmacology)	
 Absorption of drugs (Pl 	iarmacology)	
	87 P a g	ge

• Assessment Model of RMU & Continuous Internal Assessment

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

Category A*	Category	B**	Category C ***				
General Embryology	General Histology	General	Demonstrations / SGD CBL Practical's Self-Directed Lear				
		Anatomy				(SDL)	
Introduction to human development	Types of epithelium	Introduction to	Anatomicomedical	Clavicle	Introduction to	Clavicle	
Oogenesis	Specialization of	General	terminologies I (planes &	Brachial plexus	microscope, Slide	Scapula	
Spermatogenesis	apical cell surface	Anatomy	positon)	injuries	preparation,	Anterioraxioappendicular	
Female reproductive cycles	Intercellular junction		Anatomicomedical		artifact	muscles	
Ovulation and fertilization	and adhesions		terminologies II (Anatomical		Simple	Posterior	
Cleavage and blastocyst formation	Glandular epithelium		terms and axis of movements)		epithelium,	Axioappendicular	
Development of mammary gland	Mammary gland		Anatomicomedical		Stratified	muscles	
			terminologies III (Cell and		epithelium	Axilla	
			tissues)		Mammary gland	Brachial plexus	
			Anatomicomedical			Injuries of brachial plexus	
			terminologies IV (Skin &			Breast	
			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 axtoappendicular				
Catagony A*: Dy Drofoggorg			region				
Category A*: Dy Professors	tant Duofacaona						
Category D**: Dy Associate & Assis	tall Professors						
Category C***: By Senior Demonstr	ators & Demonstrators						

Categorization of Modular Content 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

Teaching Staff / Human Resource of Department of Anatomy

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	Total Hours
	Teaching Strategies	
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

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)							
function – I (by Dr. Faizania)							

Categorization of Modular Content of Physiology:

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

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

Teaching Staff / Human Resource of Department of Physiology

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	Introduction to glassware	Cell & Cell Membrane			
			PCR (Polymerase	(pipetting)				
Transport across cell	Physicochemical aspects		Chain Reaction)	Introduction to Lab Equipment	Physicochemical Aspects of cell			
membrane	Water & PH			Surface Tension				
				Emulsion				
Nucleic acid Chemistry	Cancer			Adsorption				
Replication	Enzymes			Tonicity				
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 Dem	onstrators & 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)

	Hours Calculation for Various Type of Teaching	Total Hours	Total Hours
Sr. #	Strategies	(Faculty)	(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 – 1	1:00 AM	11:00 AM - 11:40 AM - 12:20 PM 12:20-1:00 PM							1:00-PM -	02:00 PM
12.02.2024	Welcome add Introduction to RMU, Allied	ress by VC hospitals, Introduction to			Orientation to RM	AU Curricular Reforms				Introduction To Di RM	gital Services Of U
Monday	Medical Education Departm System, Introduction to basi Servi	ent & Integrated Modular c & clinical sciences & IT ces	Introduction to Integr Study Guide	rated Modular Curriculum, sand RMU Policies	Assessment Model Internal	of RMU & Continuous Assessment	Research Model of RM Ethics Family Medicin	IU (IUGRC), Biomedical ne, Artificial Intelligence		Introduction To L Teams (Online Curricu	MS, CMS, MS Component of Ilum)
HR	Vice Chancellor RMU: Pro Principle RMC: Prof I Prof. Dr. Rai Muhammad A Education * D	f. Dr. Muhammad Umar Dr. Jahangir Sarwar Asghar: Director Medical birector IT *	Dr. S	idra Hamid	Dr. Ars	alan Mughal	Dr. Sadia Khan & Dr Khaula Noreen			Directo Hafi Shahi	or IT d Rasool
Venue			I	LATIF AUDITORIUM						LATIF AUD	ITORIUM
	8:00 AM -	9:00 AM	9:00 AN	1–10:00 AM	10:00 AM - 11:00 AI	M 11:00-12:00	12:20 PM	I – 1:00 PM		1:00-2:0	0 PM
13-02-2024 Tuesday	Introduction to Ana	tomy Department	Introduction to P	hysiology Department	Introduction to Biochemistry	BEHAVIORAL SCIENCES(LGIS)	PHARMACOLOG	Y & PATHOLOGY	Z	Anatomy Bio data f	orms, Physiology
		5 1 1 1 1 1			Department	Introduction to Behavioral Sciences	Introduction to Pharmaco	ology and Patholgy	::20P]	& Biochemistry	bio data forms
HR	Prof. Dr. Ayesha Yo	usaf (HOD& DEAN) **	Prof. Dr. S	Samia Sarwar **	Dr. Aneela**	Prof. Asad Tameeaz ud Din	Dr. Mudasira (Odd)	Dr. Zaheer (Even)	0 -12	Dr. Fareed, Dr. Ali	Dr. Kashif Raza
Venue				Lecture Theatre Complex Hall No 2						Lecture Theatre Co	mplex Hall No 2
		8:00 AM- 10:00AM	10:00-11:00		11:00 AM - 12:00 AM		12:20 AM - 1:00 PM		К1	1:00-2:0	0 PM
14-02-2024	DISSECTION / SGD		BEHAVIORAL	L SCIENCES(LGIS)	PHYSIO	LOGY (LGIS)	COMMUNITY MEDICINE		EA	BIOCHEMIS	FRY (LGIS)
Wednesday	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)		BR	Cell Organelles (1)	Cell membrane
HR	4 Demonstrators 4 B	atches 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)
	8:00 AM – 1	10:00 AM	10:00 - 11:00 AM		11:00	- 12:00PM	12:00 – 01:00PM			1:00-2:0	0 PM
	DISSECTI	ON/SGD	DME		PHYSIOLOGY (LGIS)		ANATOMY (LGIS)			COMMUNITY	MEDICINE
15-02-2024			Introduction to Diffe	erent Teaching Strategies,	Concept of body		Embryology	General Anatomy		Characteristics	f research and
Thursday	Anatomicomedical terminolo and axis of m	ogies II (Anatomical terms ovements)	Role of Team Leader Facilitator and Students SGD/LGIS/TBL/PAL/INTERNET & Literature Group activity		fluids Cell Physiology & & Internal homeostasis environment		Introduction to Human Development	Introduction to General Anatomy		health resear (Resear	ch-II)
HR	4 Demon 4 Batches of	strators f 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)
	8:00 AM -	9:00 AM	9:00 AN	1-10:00 AM	10:00 AN	I – 11:00 AM	11:00 AM	- 12:00 PM			
	LIFE STYLE & 1	PREVENTION	ANAT	OMY LGIS	BIO	ETHICS	PHARMA	ACOLOGY	_		
16-02-2024	Healthy Lifestyle: A Fo	undation for Medical	General Anatomy	Embryology	Introduct	ion to History					
Friday	Professi	onals	Introduction to	Introduction to Human	of Med	lical Ethics	Routes of drug	g administration			
			General Anatomy development		Dr. Arcalan		Dr Omaima	Dr Zoefishan	_		
HR	Dr. Khaula (Even) Dr. Rizwana (Odd)		Arsalan (Even)	(Odd)	(Even)	Dr Sidra Hamid (Odd)	(Even)	(Odd)			
	8:00 AM – 9:00 AM 9:00 AM – 10:00 AM		10:00 AM	M – 11:00 AM	11:00 AN	I – 12:00 AM	12:00 AM – 1:00 PM			1:00 - 2:	00 PM
17-02-2024	DISSECTI	ON/SGD	DME &	BIOETHICS	DME &	BIOETHICS	BIOCHEMI	STRY (LGIS)		COMMUNITY	MEDICINE
Saturday	Anatomicomedical terminol	ogies III (Cell and tissues)	Professionalism	Leadership	Leadership	Professionalism	Cell membrane	Cell Organelles-I		Basics of Ethics in (Research	Health Research ch-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 Ven	ue & Batcl	hes					
Schedule for	or Practical / Smal Dr. Avesha Y	ll Group Discussio ousaf & Associate	n (Histology Prof. Dr. Mo	Practical Super htashim Hina)	rvised by Prof.	Ver (Sur	ue for First pervised by H	Year Ba Prof. Dr	atches for Anatomy] . Avesha Yousaf & A	Dissection Associate	a / Small Group Discussion Prof. Dr. Mohtashim Hina)	
Day	Histology Practical	Biochemistry Practical	Physiology Practical	Physiology SGD	Biochemistry	Batches	Roll N	No	Anatomy		Venue	
Monday	C	B	E	A	D	Α	01-90)	Dr. Zeneara Sagib	New Le	cture Hall Complex 02	
Tuesday	D	С	А	В	Е	В	91-18	0	Dr QuraulAin	New Le	cture Hall Complex 03	
Wednesday	Е	D	В	С	А	С	181-2	70	Dr Sajjad	Anatom	y Lecture Hall 03	
Thursday	В	Α	D	Е	С	D	271 and on	wards	Dr Ali Raza	Anatom	y Lecture Hall 04	
Saturday	А	Е	С	D	В							
	Venue for Fi	rst Year Batches fo	or PBL & SG	D Team-I		Sr. No	Batch	Ro	oll no	Nai	mes of Teachers	
Batches	Roll No		Venu	e					Bioche	emistry	Physiology	
Batch-A1	(01-35)	Lecture Hall no.((Physiology))5 1	Dr. Farhat Jabe Physiology)	en (PGT	1.	Batch – A	01-70	Dr. Alma	s Ijaz	Dr. Sheena Tariq	
Batch-A2	(36-70)	Lecture Hall no.(Floor Anatomy)	$04 (1^{st} $	Dr. Ali Zain PGT Physiolog	gv)	2.	Batch –B	71-14	0 Dr. Rahat	Afzal	Dr. Uzma Kiani / Dr. Farhat	
Batch-B1	(71-105)	Lecture Hall no.0 (Basement)	2 1	Dr. Afsheen Ba Physiology)	tool (PGT	3.	Batch –C	141-2	10 Dr. Naya	b	Dr. Fahd Anwar	
Batch-B2	(106-140)	Conference room (Basement)]	Dr. Najam-us-S Physiology)	Sehar (PGT	4.	Batch –D	211-2	80 Dr. Uzma	ı Zafar	Dr. Maryam Abbas / Dr. Afsheen	
Batch-C1	(141-175)	Lecture Hall N0. (Basement)	04 1	Dr. Maryam At Physiology)	obas (PGT	5.	Batch -E	281-0	wards Dr. Romessa		Dr. Fareed / Ali Zain	
Batch-C2	(176-210)	Lecture Hall NO. (Basement)	05 1	Dr. Nayab Zoni Physiology)	ish (PGT		I				•	
Batch-D1	(210-245)	Lecture Hall NO. Floor)	03 (First I	Dr. Iqra Ayub (Physiology)	PGT		Venue	s for La	rge Group Interactiv	e Session	(LGIS) and SDL	
Batch-D2	(246-280)	Anatomy Museur Floor Anatomy)	n (First	Dr. Muhammac PGT Physiolog	d Usman gy)	Odd Rol	l Numbers		New Lect	ure Hall C	Complex Lecture Theater # 03	
Batch-E1	(281-315)	Lecture Hall no.0	1 I	Dr. Fareed Ull Demonstrator	ah Khan Physiology)	Even Ro	ll Number		New Lecture Hall Complex Lecture Theater # 02			
Batch-E2	(315 onwards)	Lecture Hall no.0	2 1	Dr. Kashif Rau Demonstrator	f Biochemistry)							

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 – 2	11:00 AM	11:00 AM -	- 11:50 AM	11:50 AM - 12:20 PM	12:20 PM TO 02:00PM	Home Assignment
		SGD/O	CBL			PHYSIOLOG	GY (LGIS)	PHYSIOLO	GY (LGIS)			
19-02-2024 Monday	Anatomicome	atomicomedical Terminologies IV (Skin and body systems)			Cell membrane & classification of cell organelles	Intracellular communication and cell junction	Intracellular communication and cell junction	Cell membrane & classification of cell organelles		Practical & SGD Topics& Venue mentioned at the end	SDLPhysiology Homeostasis	
						Dr. Faizania Shabir (Even)	Dr. Sidra Hamid (Odd)	Dr. Sidra Hamid (Even)	Dr. Faizania Shabir (Odd)	M	(Refer to table no. 1)	
	SGD)	CH	BL		PHYSIOLO	GY SGD	PHYSIOLO	GY (LGIS)			SDI physiology
20-02-2024 Tuesday	Clavic	le	Fracture o	f Clavicle		Concept of Body Fluid and	l Internal Environment	Cell organelles& cell function - I	Receptor and signal transduction	a	Practical & SGD Topics& Venue mentioned at the end	Homeostatic control
			(Refer to ta	able 110. <i>3</i>)		Refer to Tal	ple No.3	Dr. Faizania Shabir (Even)	Dr. Sidra Hamid (Odd)	e	(Refer to table no. 1)	incentaitistit
	Dissect	ion	SUPERVI	SED SDL		PATHOLOG	Y (LGIS)	PHARMACO	LOGY LGIS	_	Practical & SGD	(D)
21-02-2024			Scanula Ana	estomosis &		Cellular respon	Absorption of drugs		<u>ب</u>	Topics& Venue mentioned at the	SDL Biochemistry	
Wednesday	Scapu	la	its Clinical S	Significance	a	Dr. Rabia (Even)	Dr Fatima (Odd)	Dr. Arsheen (Even)	Dr. Omaima (Odd)		end (Refer to table no. 1)	Cell organelles
	PATHOLOG	Y (LGIS)	BIOCHEMI	STRY LGIS		PHYSIOLOG	GY (LGIS)	PHARMACO	LOGY (LGIS)	B		SDL
22-02-2024 Thursday	Intra Cellular ac	cumulation	Cell Organelle- II	Transport across cell membrane	e	Receptor and signal transduction	Cell organelles & related cell function - I	Factors affecting Absorption of drugs			Practical & SGD Topics& Venue mentioned at the end	Biochemistry Cell Membrane Transport Across
	Dr. Rabia (Even)	Dr Fatima (Odd)	Dr. Rahat (Even)	Dr. Kahsif Rauf (Odd)	Ľ	Dr. Sidra Hamid (Even)	Dr. Faizania Shabir (Odd)	Dr. Mehmoona (Even)	Dr Omaima (Odd)		(Refer to table no. 1)	Cell Membrane
	BIOCHEMIST	TRY LGIS	ISLAN MEDICAL	I AND SCIENCE	B		ENTREPRENEURSHII	(LGIS)				
23-02-2024 Friday	Transport across cell membrane	Cell organelle- II	Introductio n to Quran translation	Islam And Medical Science			Ideate Initial Idea				SDL Anatomy clavicle	
	Dr. Kashif Rauf (Even)	Dr. Rahat (Odd)	Mufti Naeem Sherazi (Even)	Moulana Abdul Wahid (Odd)		Dr. Asif						
		DISSECTI	ON/ SGD			BIOCHEMIST	RY (LGIS)	PHARMACOLOGY (LGIS)			Practical & SGD	
24-02-2024 Saturday)2-2024 turday Humerus					Water & PH	Physico chemical aspects- I	Distributio	n of drugs	r ea k	Topics & Venue mentioned at the end	SDL Anatomy Scapula
J						Dr. Uzma Zafar (Even)	Dr. Nayab (Odd)	Dr. Omaima (Even)	Dr Uzma (Odd)	B	(Refered to table no. 1)	

					Table No	. 1 (Ti	ime: 12:	20 pm - 02:	00pm)							
Batch Di	stributio	n for Practic	Topics for Skill Lab wi	th Venue					Sched	ule for Practical /	Small Gr	oup Discussi	ion			
Skills (al	l subject	s)	Introduction to Microscop	e and	Day	H	Histology Practical		Biochemistry		Physiology		Physiology		Bioc	hemistry
CBL / St	nall Gro	up Disscusio	Preparation of Slide. Artif	Preparation of Slide. Artifacts						Practical		Practical		SGD		SGD
(Biocher	nistry and	d Physiology	(Anatomy/Histology-pract	(Anatomy/Histology-practical) venue-			Batch	Teacher	Batch	Teacher Name	Batch	Teacher	Batch	Teacher	Batch	Teacher
			Histology Laboratory (Dr.	Kashif)				Name				Name		Name		Name
Sr. No	Batch	Roll No	• Introduction to glass ware	s (Pipetting)	Monday		С	f. te	В	Dr. Rahat	E	Dr. Ali	Α	Dr.	D	Dr. Uzma
			(Biochemistry practical) v	enue-	-			Pro ocia						Sheena		
1.	А	01-70	Biochemistry lab)		Tuesday		D	by Assc Hin	С	Dr. Nayab	Α	Dr.	В	Dr.	Е	Dr.
			Introduction to Microscop	e. (Physiology-	-			sed & ∕				Sheena		Uzma		Almas
2.	В	71-140	Practical (Physiology Lab	oratory)	Wednesda	у	E	ervi saf ıtasl	D	Dr. Uzma	В	Dr.	С	Dr. Fahd	Α	Dr.
				•		-		Voh Voh				Uzma				Romessa
3.	С	141-210			Thursday		В	if (9 ha y	А	Dr. Almas	D	Dr.	Е	Dr. Ali	С	Dr.
					5			ash yesl f. D				Maryam				Nayab
4.	D	211-280			Saturday		А	r. K Pro	Е	Dr. Romessa	С	Dr. Fahd	D	Dr.	В	Dr. Rahat
					2			ΔΩ						Maryam		
5.	Е	281-onwar	Topics for Small Group Dis		Tabl	e No. 2	Batch Distr	ibution ar	d Venues for Ana	tomy Sm	all Group D	isscussio	n SGDs / Dis	ssections		
			Venue			(Sup	ervised by	Prof. Dr	Avesha Yousaf	& Ásso	ciate Prof. I	Dr. Moht	ashim Hina	1)		
			Physiology small group di	scussion-	Batches		Rol	l No	Anat	tomy Teacher			V	⁷ enue		
			Functional organization of	human body	А	0	1-90		Dr. Zen	eara Saqib	New L	ecture Hall C	Complex (02		
			and cell physiology venue	-Lecture Hall 5	B 91-180			Dr Oura	ul Ain	New L	ecture Hall C	Complex (03			
			Biochemistry small group	discussion –	C 181-27			70 Dr Sajjad		d	Anator	ny Lecture H	Iall 03			
			Cell & Cell membrane- Le	ecture Hall 3	D	D 271 and onwards Dr Ali			Dr Ali F	i Raza Anatomy Lecture Hall 04						
			Table No. 3 Batch	Distribution wit	h Venues an	d Tea	chers N	ame for Sm	all Group	Disseussion (SGI)) Physic					
Topic	Concept	of Body Flu	and Internal Environment	Distribution wit		u i ca			an Oloup	Dissedssion (SOI	<i>)</i> i ilysic	nogy				
Date:	20.02.20	124 Time: 1	1.10 m 11.00 m													
Sr No	Batch	Pos Roll N	Venue	Teacher		No	Batche	Roll	No	Vanua				Teachars		
1		(01.35)	Lecture Hall no 05	Dr. Farbat Jabe	5 51	6		(176.21	$\frac{100}{0}$	Lecture Hell NO	05	Dr. Navah 7	Zonich (P	GT Physiol	(ww	
1.		(01-35)	(Physiology)	(PGT Physiolo	av)	0.	C2	(170-21	0)	(Basement)	05	DI. Naya0 Z	Lomsn (1	OT THYSIOIC	(gy)	
2	<u>م</u> ۲	(26.70)	Lecture Hall no 04 (1 st Floor	Dr Ali Zoin	531	7	D1	(210.24	5)	Lactura Hall NO	03	Dr Jaro Av	uh (PCT	Physiology)		
۷.	A2	(30-70)	$\Delta natomy$	Lecture Hall no.04 (1 st Floor Dr. Ali Zain		1.		(210-24		(First Floor)	05	Di. iqia Ay	u0 (r01	i nysiology)		
2	D 1	(71.10)	L actura Hall no 02	Anatomy) (PGT Physiolo		8	D2	(246.20	20)	Anotomy Mussum	. (First	Dr Muham	mad Har	202		
5.	DI	(/1-10.	(Basement)	DI. AISHEEH DA		0.		(240-28		Floor Anotomy	i (i iist	(DCT Drug	iniau USII	1411		
Λ	- DJ	(106	Conforma room	Dr. Noiom vo	<u>gy)</u> Sohor	0	E1	(201.21	5)	I = I = I = I = I = I = I = I = I = I =	1	Dr. Eoroad	Ulloh Vh	on (Domono	trator Dh	uciology)
4.	B 2	(100-	(Pasament)	Dr. Inajaiii-us-		у.	EI	(201-31	5)	Lecture Hall no.0.	L	Dr. rareed		ian (Demons	mator Ph	ysiology)
F		(140)	(Dasement)	Dr. Marriage Al	gy)	10	E2	(215	(ah nove		`	Dr. Kaskifi	Dauf			
5.		(141-	Decture Hall NU. 04	Dr. Maryam A	DDas	10.	E2	(315 on	wards)	Lecture Hall no.02	2	Dr. Kashif I	Kaur			
		1/5)	(Basement)	(PGT Physiolo	gy)							(Demonstra	tor Bioch	iemistry)		

Table No.	. 4 Batch Distribution	n and Venues for Anaton	ny Case Base Learning (CBL)		Table No. 5 Batch Distribution and Venues for Anatomy Supervised SDL						
Topic: Fract	ture of Clavicle			Topic: So	Topic: Scapula Anastomosis & its Clinical Significance						
Date: 20-02-	2024 Time: 09:00an	n – 09:50am		Date: 21-0	02-2024 Time: 09:00a	m – 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	А	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02				
В	91-180	Dr Quraul Ain	New Lecture Hall Complex 03	В	91-180	Dr Quraul Ain	New Lecture Hall Complex 03				
С	181-270	Dr Sajjad	Anatomy Lecture Hall 03	С	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. 6 Bate	ch Distribution with Venu	ues and Te	eachers Na	me for Problem I	Based Learning (PBL) Sessi	ons
Sr No.	Sr No. Batches Roll No Venue		Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	A1	(01-35)	Lecture Hall no.05	Dr. Mohtashim Hina	6.	C2	(176-210)	Lecture Hall NO. 05	Dr. Nayab Zonish (PGT Physiology)
			(Physiology)	(Assoc. Prof.				(Basement)	
				Anatomy)					
2.	A2	(36-70)	Lecture Hall no.04 (1st Floor	Dr. Aneela Jamil	7.	D1	(210-245)	Lecture Hall NO. 03	Dr. Iqra Ayub (PGT Physiology)
			Anatomy)	(Assistant Professor				(First Floor)	
				of Biochemisty)					
3.	B1	(71-105)	Lecture Hall no.02	Dr. Afsheen Batool	8.	D2	(246-280)	Anatomy Museum (First	Dr. Muhammad Usman
			(Basement)	(PGT Physiology)				Floor Anatomy)	(PGT Physiology)
4.	B2	(106-	Conference room	Dr. Najam-us-Sehar	9.	E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)
		140)	(Basement)	(PGT Physiology)					
5.	C1	(141-	Lecture Hall N0. 04	Dr. Sidra Hamid	10	E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf
		175)	(Basement)	(Assisttant Professor					(Demonstrator Biochemistry)
				of Physiolgy)					

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						

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
	DISSECTI	ON / SGD	SUPERVI	SED SDL		MED	ICINE	BIOCHEMI	STRY LGIS			0
26-02-2024	Anterior Axio	appendicular	Anterior Axio	appendicular		Introduction to Me Mee	edicine nd History of dicine	Physico chemical aspects-I	Water & PH		Practical &CBL Topics & Venue	SDL Physiology Intracellular
Wonday	Mus	cles	Mus	cles		Dr. SalehaImran (Odd)	Dr. Ayesha Habib (Even)	Dr. Nayab (Even)	Dr. Uzma Zafar (Odd)		(Refered to table no. 1)	communication
	DISSECTI	ON / SGD	SUPERVISED SDL			ANATO	MY (LGIS)	PHYSIOLO	OGY (LGIS)			
27-02-2024 Tuesday	Posterior Axio mus	appendicular cles	Posterior Axioappendicular muscles			Histology Types of epithelium	Embryology Gametogenesis Spermatogenesis	Cell organelles & cell function - II	Homeostasis Control System- I (Negative Feedback System, Concept of Error and Gain)		Practical &CBL Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Receptors &signal transduction
						Asisstant. Prof	Prof. Dr. Saima	Dr. Faizania Shabir	Prof. Dr. Samia Sarwar		· · · · · · · · · · · · · · · · · · ·	
	BIOCHEMIS	TRV (LCIS)	PATHOLO	OCVICIS		Dr Arsian		(Even)	OCV (I CIS)			
	DIOCHEMIS		TAIHOLO			Embryology	Histology	Homeostasis Control				
28-02-2024 Wednesday	Physico chemical aspects-II	Water & PH II	Pigm	nents		Gametogenesis Spermatogenesis	Types of Epithelium	System- I (Negative Feedback System, Concept of Error and Gain)	Cell organelles& cell function - II		Practical &CBL Topics & Venue mentioned at the end	SDL Biochemistry Physicochemical aspects
-	Dr. Nayab (Even) Zafar(Odd)		Dr. Rabia (Even) Dr Fatima (Odd)		A A	Prof. Dr. Saima (Even)	Asisstant. Prof Dr Arslan Mughal (Odd)	Prof. Dr. Samia Sarwar /Dr. Uzma (Even)	Dr. Faizania Shabir (Odd)	l k	(Refered to table no. 1)	Osmotic Pressure
	PEA	DS	PHYSIOLO	OGY (SGD)	5	BIOCH	EMISTRY	PHYSIOLO	OGY (LGIS)	5		
29-02-2024 Thursday	Medical genetic & dysmorphology		Receptor and signal transduction		e	Water & PH II	Physico chemical aspects-II	Genetics, transcription & translation	Homeostasis Control System-II (positive feedback, and concept of feed forward, adaptive control and vicious cycle)	е.	Practical &CBL Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Physicochemical aspects (Surface Tension, Viscosity)
	Dr. Sadaf (Even)	Dr Saira Liaqat (Odd)	Physiology Team I			Dr. Uzma Zafar (Even)	Dr. Nayab (Odd)	Dr. Faizania Shabir (Even)	Prof. Dr. Samia Sarwar /Dr. Uzma (Odd)	Ι		(iscosity)
	COMMUNITY	MEDICINE	BIOCHE	MISTRY	8	ANATO	MY LGIS	PHYSIOLO	OGY (LGIS)	8	12:00pm - 12:30pm	
01-03-2024 Friday	Basics of Ethics Research (Resea	in Health rch -IV)	Physico chemical Cancer aspects-III			Embryology Gametogenesis -Oogenesis)	Histology Apical Cell Surface	Homeostasis Control System-II (positive feedback, and concept of feed forward, adaptive control and vicious cycle)	Genetics, transcription & translation		SDL Anatomy Anterior	
	Dr Mneeba Iqbal(Even)	Dr Rizwana (Odd)	Dr. Nayab (Even)	Dr. Almas (Odd)		Prof. Dr. Ayesha (Odd)	Associate. Prof Dr. Mohtashim (Even)	Prof. Dr. Samia Sarwar /Dr. Uzma (Even)	Dr. Faizania Shabir (Odd)		axioappendicular muscles	
	Disse	ction	BIOCHEMIS	STRY (LGIS)		ANATO	MY (LGIS)	PHYSIOLO	OGY (LGIS)			
02-03-2024 Saturday	Dissection	/ Spotting	Cancer	Physico chemical aspects-III		Histology Specialization of Apical cell surface	Embryology Gametogenesis Oogenesis	Cell membrane ion channels, transport across cell membrane	Structure of nucleus, ribosomes and cell division		Practical &CBL Topics & Venue	SDL Anatomy Postior
Saturday	Dissection / Spotting	Dr. Almas (Even)	Dr. Nayab (Odd)		Ass. Prof. Dr Mohtashim (Even)	Prof. Dr. Ayesha (Odd)	Dr. Faizania Shabir (Even)	Dr. Uzma (Odd)		mentioned at the end (Refered to table no. 1)	axioappendicular muscles	

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

				Table No. 1	(Time: 12	:20pm – 02:	:00pm)										
Batch D	istributio	n for Practical	Topics for Skill Lab with Venue				Schee	dule for Practical	Small C	broup Discus	sion						
Skills (a	ll subject	s)	Simple Epithelium (Anatomy/Histology-	Day Histology Practical		Bi	ochemistry	Phy	siology	Phy	siology	Bioc	hemistry				
CBL / S	mall Gro	up Disscusion	practical) venue-Histology Laboratory (Dr.			-	Practical		Practical			CBL		SGD			
(Bioche	mistry an	d Physiology)	Kashif)		Batch	Teacher	Batch	Teacher Name	Batch	Teacher	Batch	Teacher	Batch	Teacher			
			Introduction to Lab Equipment			Name				Name		Name		Name			
Sr. No	Batch	Roll No.	(Biochemistry practical) venue-	Monday	C	of.	В	Dr. Rahat	E	Dr. Ali	A	Dr.	D	Dr. Uzma			
			Biochemistry Lab)		_	/ Pr socii ina)				_		Sheena					
1.	A	01-70	• Introduction to Wintrobe & Westergen tube	Tuesday	D	d by Ass H n	C	Dr. Nayab	А	Dr.	В	Dr.	E	Dr.			
	D	71.140	(Physiology-Practical (Physiology	XX 7 1 1	.	vise f & shir		D U	D	Sheena		Uzma		Almas			
2.	В	/1-140	Laboratory)	Wednesd	E	per ousa	D	Dr. Uzma	В	Dr.	C	Dr. Fahd	A	Dr.			
2	C	141 210	-	ay	D	Mc (Su	•	Dr. Almoo	D	Uzma Dr	E	D: 41	C	Romessa			
5.	C	141-210		Thursday	В	shif esha Dr	A	Dr. Almas	D	Dr. Momuom	E	Dr. All	C	Dr. Neveh			
4	D	211 280	-	Saturday	٨	Ka Ay rof.	F	Dr. Pomosso	C	Dr. Fahd	D	Dr	P	Nayau Dr. Dobot			
4.	D	211-200		Saturday	A	Dr. Dr.	Ľ	DI. Komessa	C	DI. Fallu		DI. Maryam	Б	DI. Kallat			
5	F	281-onwards	Topics for Small Group Discussion & CBI		Table No	2 Batch Dis	tribution a	und Venues for Ar	atomy S	mall Group]	Dissensei	on SGDs / D	issection	S			
5.	L	201-011wards	with Venue		(S)	2 Daten Dis	$v \operatorname{Prof} D$	r Avesha Yousa	$f & \Delta ss$	ociate Prof	Dr Mo	htashim Hir	1350011011 19)	5			
			Physiology CBL _Body fluid	Batches	Ro	II No	Anat	omy Teacher	1 @ 1155			Zenue	ia)				
			• Fliyslology CBL –Body Ilulu	compartment cell membrane &	compartment cell membrane &	compartment, cell membrane &	A	01-90	H 110	Dr. Zene	ara Sagib	New La	ecture Hall (Complex	02		
			cvtoskeletal-venue-Lecture Hall 5 (First	B	91-180		Dr Oura	ul Ain	New Le	ecture Hall (Complex	03					
	Floor)				181-270		Dr Saija	d	Anaton	ny Lecture H	Iall 03						
			Biochemistry Small Group Discussion -	D	271 and	onwards	Dr Ali R	aza	Anaton	ny Lecture H	Iall 04						
			Physico chemical aspects of cell membrane							5							
			- Lecture Hall 3 (First Floor) Cell & Cell														
			membrane- Lecture Hall 3														

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

			Table No. 4 Batch Distribution	and Venues	for Anatomy Supervise	a SDL	
Topic: Anter	rior Axioappendicular	Muscles		Topic: Po	osterior Axioappendicula	r Muscles	
Date: 26-02-2	024 Time: 09:00am -	09:50am		Date: 27-0	2-2024 Time: 09:00am -	– 09:50am	
Batches	Roll No	Anatomy Teacher	Venue	Batches	Roll No	Anatomy Teacher	Venue
А	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02	А	01-90	Dr. Zeneara Saqib	New Lecture Hall Complex 02
В	91-180	Dr Quraul Ain	New Lecture Hall Complex 03	В	91-180	Dr Quraul Ain	New Lecture Hall Complex 03

В	91-180	Dr Quraul Ain	New Lecture Hall Complex 03	В	91-180	Dr Quraul Ain	New Lecture Hall Complex 03						
С	181-270	Dr Sajjad	Anatomy Lecture Hall 03	С	181-270	Dr Sajjad	Anatomy Lecture Hall 03						
D271 and onwardsDr Ali RazaAnatomy Lecture Hall 04D271 and onwardsDr Ali RazaAnatomy Lecture Hall 04													
	Table No. 5 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions												

			Table No. 5 Bat	tch Distribution with Ven	ues and To	eachers Na	me for Problem I	Based Learning (PBL) Sessi	ions				
Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers				
1.	A1	(01-35)	Lecture Hall no.05	Dr. Farhat Jabeen	6.	C2	(176-210)	Lecture Hall NO. 05	Dr. Nayab Zonish (PGT Physiology)				
			(Physiology)	(PGT Physiology)				(Basement)					
2.	A2	(36-70)	Lecture Hall no.04 (1st	Dr. Ali Zain	7.	D1	(210-245)	Lecture Hall NO. 03	Dr. Iqra Ayub (PGT Physiology)				
			Floor Anatomy)	(PGT Physiology)				(First Floor)					
3.	B1	(71-105)	Lecture Hall no.02	Dr. Afsheen Batool	8.	D2	(246-280)	Anatomy Museum (First	Dr. Muhammad Usman				
			(Basement)	(PGT Physiology)				Floor Anatomy)	(PGT Physiology)				
4.	B2	(106-140)	Conference room	Dr. Najam-us-Sehar	9.	E1	(281-315)	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)				
			(Basement)	(PGT Physiology)									
5.	C1	(141-175)	Lecture Hall N0. 04	Dr. Maryam Abbas	10	E2	(315 onwards)	Lecture Hall no.02	Dr. Kashif Rauf				
			(Basement)	(PGT Physiology)					(Demonstrator Biochemistry)				
				Ν	lo PBL Se	ession duri	ng this week						
	Table No. 6 Venues for Large Group Interactive Session (LGIS)												
				Odd Roll NumbersN	New Lectu	ire Hall Co	mplex Lecture T	heater # 03					
			I	Even Roll Number N	New Lectu	ire Hall Co	mplex Lecture T	heater # 02					

				Time T	able for	Foundation	Module (For	urth 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
	BIOCHEM	ISTRY (LGIS)	PATHOL	OGY LGIS		ANATO	MY(LGIS)	PHYSIOLO	OGY (LGIS)			
04-03-2024 Monday	Introduction & Classification of Enzymes	Nucleic Acid Chemistry-I	Free Radicals/ Reactive Oxygen Species (ROS).	Free Radicals/ Reactive Oxygen Species (ROS).		Embryology Female Reproductive Cycles	Histology Intra cellular junctions & adhesions	Structure of nucleus, ribosomes and cell division	Cell membrane ion channels, transport across cell membrane		Practical &CBL Topics & Venue mentioned at the end	SDL Physiology Genetics, transcription &
	Dr. Uzma Zafar (Even)	Dr. Kashif Rauf (Odd)	Dr. Rabia (Even)	Dr Fatima (Odd)		Prof. Dr. Ayesha (Even)	Asst. Prof. Dr. Arsalan Manzoor (Odd)	Dr. Uzma (Even)	Dr. Faizania Shabir (Odd)		(Refered to table no. 1)	translation
	BIOCHEM	ISTRY (LGIS)	ANATO	MY LGIS		PBL SE	ESSION -I	BIOCHEMI	STRY (LGIS)	M		
05-03-2024 Tuesday	Nucleic Acid Chemistry-I	Introduction & Classification of Enzymes	Histology Intercellular junctions and adhesions	Embryology Female Reproductive Cycles		PBL	. Team	Nucleic Acid Chemistry-II	Properties / Factors of Enzymes	al	Practical & CBL Topics & Venue mentioned at the end	SDL Physiology Structure of nucleus ribosome's & cell
	Dr. Kashif Rauf (Even) Dr. Uzma Zafar (Odd) Arsalan Manzoor (Even) Prof. Dr. Ayesha (Odd) (Ceven) (Odd)						Dr. Kashif Rauf (Even)	Dr. Uzma Zafar (Odd)	e	(Refered to table no. 1)	division	
	DISSECTION / SGD					PATHOL	OGY (LGIS)	PHYSIOLO	OGY (LGIS)	_		
06-03-2024 Wednesday	Axilla		a	Irreversible injury / Necrosis		Transport across cell membrane, Osmosis	Cellular control mechanism, cell cycle programmed cell death/ apoptosis	B	Practical & CBL Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Nucleic Acid Chemistry		
					e	Dr. Rabia (Even)	Dr Fatima (Odd)	Dr. Faizania Shabir (Even)	Dr. Uzma (Odd)			
	DISSECT	FION / SGD	BIOCHEMI	STRY (LGIS)		PBL SE	SSION -II	PHYSIOLO	OGY (LGIS)			
07-03-2024 Thursday	DISSI	ECTION	Properties / Factors of Enzymes	Nucleic Acid Chemistry-II	B	PBL	, Team	Cellular control mechanism, cell cycle programmed cell death/ apoptosis	Transport across cell membrane, Osmosis		Practical &CBL Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Cancer
			Dr. Uzma Zafar	Dr. Kashif Rauf				Dr. Uzma (Even)	Dr. Faizania Shabir			
	PATHOL	OGY LGIS.	BIOCHEMI	STRY (LGIS)		ANATO	MY (LGIS)	PHYSIOLO	OGY (LGIS)			
08-03-2024	Irreversible I	njury Apoptosis	MM Equation, Coenzymes, Co Factors	Replication		Embryology	Histology	Active Transport I	Active Transport II	S	DL. Anatomy	
Friday	Dr. Rabia (Even) Dr Fatima (Odd) Dr. Uzma Zafar (Even) Dr. Aneela (Odd)			Fertilization Prof. Dr Ayesha	Glands Ass. Prof. Dr	Dr. Faizania Shabir	Dr. Sheena		Axilla			
<u> </u>		DICC	ECTION / SCD			(Even)	Muhtashim (Odd)	(Even)	(Odd)			
09-03-2024 Saturday		Br	achial plexus			Replication	MM Equation, Coenzymes, Co Factors Dr. Uzma Zafar	Active Transport II Dr. Sheena	Active Transport I	Break	Practical &CBL Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Anatomy Brachial plexus
						(Even)	(Odd)	(Even)	(Odd)			

					Table No. 1	(Time: 12	2:20pm – 02	2:00pm)							
Batch D	istribution	n for Practical	Topics for Skill La	b with Venue				Schedu	Schedule for Practical / Small Group Discus						
Skills (a CBL / Si	ll subjects mall Grou	s) p Disscusion	• Stratified epithelium epithelium (Anatomy	& transitional /Histology-	Day	Histolog	Histology Practical		chemistry ractical	P	hysiology Practical	Ph	iysiology SGD	Bioc	chemistry SGD
Biocher	nistry and	l Physiology)	practical) venue-Hist (Dr. kashif)	ology Laboratory		Batch	Teacher Name	Batch	Teacher Name	Batch	Teacher Name	Bat ch	Teacher Name	Batch	Teache Name
Sr. No	Batch	Roll No.	Physiochemical Aspendicular Surface Tension and	ects of Cell - Emulsion	Monday	C	Prof. ciate a)	В	Dr. Rahat	Е	Dr. Ali	A	Dr. Sheena	D	Dr. Uzn
1.	А	01-70	(Biochemistry praction Biochemistry Lab)	cal) venue-	Tuesday	D	sed by & Asso tim Hir	С	Dr. Nayab	А	Dr. Sheena	В	Dr. Uzma	E	Dr. Almas
2.	В	71-140	• Apparatus identificat Neubauer's chamber	ion (Introduction to Red Blood Cell	Wednesday	E	supervi Zousaf Aohtash	D	Dr. Uzma	В	Dr. Uzma	C	Dr. Fahd	А	Dr. Romessa
3.	С	141-210	(RBC) pipettes& Wh (WBC) pipette (Phys	ite Blood Cell iology-Practical	Thursday	В	B (ashif (5 (yesha 7)	А	Dr. Almas	D	Dr. Maryam	E	Dr. Ali	C	Dr. Nayab
4.	D	211-280	(Physiology Laborate	ory)	Saturday	A	Dr. K Dr. A Pro	E	Dr. Romessa	ı C	Dr. Fahd	D	Dr. Maryam	В	Dr. Raha
5.	E	281-onwards	Т	able No. 2 (Su	2 Batch Dist pervised by	tribution and y Prof. Dr.	d Venues for . Ayesha You	Anatomy S saf & Ass	mall Group Diss ociate Prof. Dr	scussion Moht	n SGDs / Di tashim Hina	ssections ı)			
			Physiology CBL Dov	vn's syndrome –	Batches	Re	oll No	Anato	my Teacher			V	enue		
			(venue-Lecture Hall	5)	А	A 01-90			ara Saqib	New Le	ecture Hall Com	plex 02	,		
			Biochemistry CBL –	Enzymes-Lecture	В	B 91-180 C 181-270		Dr Qurau	ıl Ain	New Le	ecture Hall Com	plex 03			
			Hall 3		С			Dr Sajjad		Anatomy Lecture Hall (<u>J3</u>		
					D	271 and	onwards	Dr Ali R	aza	Anatom	y Lecture Hall ()4			
			Table No.	3 Batch Distribution	with Venues a	nd Teache	rs Name for	r Problem B	ased Learning	g (PBL) Se	essions	T			
Sr No.	Batches	Roll No	Venue	Teache	ers	Sr No.	Batches	Roll No	о — — — — — — — — — — — — — — — — — — —	Ven	ue		Те	achers	
1.	A1	(01-35)	Lecture Hall no.05 (Physiology)	Prof. Dr. Ayesha (Professor of Ana	Yousaf tomy)	6.	C2	(176-210	0) Lecture	e Hall NO.	05 (Basement)	Dr. N	layab Zonisł	n (PGT Pl	hysiology)
2.	A2	(36-70)	Lecture Hall no.04 (1 st Floor Anatomy)	Dr. Aneela Jamil (Assistant Profess Biochemisty)	or of	7.	D1	(210-24	5) Lecture Floor)	e Hall NO.	03 (First	Dr. Io	qra Ayub (Po	GT Physi	ology)
3.	B1	(71-105)	Lecture Hall no.02 (Basement)	Dr. Afsheen Bator Physiology)	ol (PGT	8.	D2	(246-280	0) Anator Anator	ny Museur ny)	n (First Floor	Dr. M (PGT	/Iuhammad U TPhysiology	Jsman)	
4.	B2	(106-140)	Conference room (Basement)	Dr. Najam-us-Seh Physiology)	ar (PGT	9.	E1	(281-31	5) Lecture	e Hall no.0	1	Dr. I (Den	Fareed Ullah nonstrator Ph	Khan ysiology)
5.	C1	(141-175)	Lecture Hall N0. 04 (Basement)	Dr. Sidra Hamid (Assistant Profess Physiolgy)	sor of	10	E2	(315 onwa	rds) Lecture	e Hall no.0	2	Dr. K (Dem	Kashif Rauf nonstrator Bi	ochemist	ry)
				Table No. 6Odd Roll Number	Venues for Larg	ge Group l cture Hall	Interactive S Complex Le	Session (LG ecture Thea	ter # 03						

Even Roll Number	New Lecture Hall Complex Lecture Theater # 02
Even Roll Number	New Lecture Hall Complex Lecture Theater # 02

					(11-03-2024	to 16-03-20	24)				
DATE/ DAY	8:00 AM - 9:00 AM	9:00 AM - 09	9:50 AM	9:50 AM -	10:10 AM - 11:0	00 AM	11:00 AM	- 11:50 AM	11:50 AM - 12:20 PM	12:20 PM - 02:00PM	Home Assignment
	DISSEC	CTION / CBL		10.10 AM	ANATOMY (L	GIS)	MEDICI	NE(LGIS)	12.20 1 141	Practical (Supervised by Prof	
11.02.2024	Brachial plexus injuri	es and winging Of	Scapula		Embryology	Histology	Character	-1 Abusediana	ık	Ayesha) & SGD	
11-03-2024 Monday		Assit Prof D	r Arcalan		Ovulation and fertilization	Glands	Chromosom	al Abrassions	irea	Topics & Venue mentioned at the	SDL Physiology
1.10mday	Pro. Dr. Saima (Even)	Mughal ((Odd)		Prof. Dr. Ayesha	Ass. Prof. Dr.	Dr. Madiha	Dr. Unazua	B	end (Defendete teles no. 1)	Cell membrane
DATE/DAV	8.00 AM 0.00 AM	0.00 AM 0	0.50 AM		(Even)	Mohtashim (Odd)	Nazr (Odd)	(Even)		(Refered to table no. 1)	Home Assignment
DATE/ DAT	0.00 AM = 9.00 AM	FCTION	9.50 AM		BIOCHEMISTRY	(LGIS)	GVNAI	- 11:50 AM 7 & OBS		11.50 AM - 01.00 I M	Home Assignment
12-03-2024 Tuesday		Breast		k	Transcription	Regulation & Inhibition of Enzyme Activity	Introduction . impla Embryog congenital	to fertilization ntation. enesis and anomalies	Practical (S Topics	Supervised by Prof Ayesha) & SGD 3 & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Cell organelles
				a	Dr. Aneela (Even)	Dr. Ammara Arooj (Even)	Lecture Theater No. 2				
	DISSECTION / SGD	PATHOLOG	Y (LGIS)	e	BIOCHEMISTRY	(LGIS)	BIOCHEMI	STRY (LGIS)			
					Regulation & Inhibition of Enzyme Activity	Transcription	Translation	Mutation	Practical (S	Supervised by Prof Avesha) & SCD	SDI Biochemistry
13-03-2024 Wednesday	Dissection/spotting	Genetic di Dr. Rabia (Even)	sorder Dr Fatima (Odd)	B r	Dr. Uzma Zafar (Even)	Dr. Aneela (Odd)	Dr. Aneela (Even)	Dr. Kashif Rauf (Odd)	Topics	(Refered to table no. 1)	Diagnostic Role of Enzymes
	DISSEC	CTION / SGD			ANATOMY (L	GIS)	BIOCHEMI	STRY (LGIS)			CDL Dis shawistory
14-03-2024 Thursday	Sternoclavicular and	l acromioclavicula	r joints		Histology Histology & Development of Mammary Gland	Embryology Cleavage and formation of blastocyst	Mutation	Mutation Translation		Supervised by Prof Ayesha) & SGD & Wenue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Transcription Online Clinical Evaluation will be
					Prof. Dr. Ifra Saeed / Asso. Dr. Mohatashim Hina (Even)	Prof. Dr. Ayesha Yousaf (Odd)	Dr. Kashif Rauf (Even)	Dr. Aneela (Odd)			to 12:15 noon
	DISSEC	TION / SGD			BIOCHEMISTRY	(LGIS)	MEDICI	NE(LGIS)			
15-03-2024 Friday	Radiograph/Surface anato	omy of axioapendi	cular region		Recombinant DNA/ PCR (Polymerase Chain Reaction)	Clinical Enzymology	History Takir Physical E	ng and General Examination		SDL Anatomy Brachial plexus injuries (Refered to table no. 1)	
					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	9:50 AM		10:10 AM - 11:0	0 AM	11:00 AM	– 12:00 PM			
					ANATOMY (L	GIS)	BIOCHEMI	STRY (LGIS)			
16-03-2024 Saturday	2024 Dissection/Spotting			reak	Histology & Development of Mammary Gland	Cleavage and formation of blastocyst	Clinical Enzymology	Recombinant DNA/ PCR (Polymerase Chain Reaction)	Practical (S Topics	Supervised by Prof Ayesha) & SGD & & Venue mentioned at the end (Refered to table no. 1)	SDL Anatomy Breast
				B	Prof. Dr. Ifra Saeed / Asso. Dr. Mohatashim Hina (Odd)	Prof. Dr. Ayesha (Odd)	Dr. Uzma Zafar / Dr. Aneela (Even)	Dr. Kashif Rauf (Odd)		(
				Onli	ne Clinical Evaluation will be condu	acted from 12 to 12:15	noon on 14th Ma	arch,2024			

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

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

Butch Distribution for Practical Skills (all subjects) (BL/Small Group Discussion CBL/Small Group Discussion Skills (all subjects) (BL/Small Group Discussion) (Biochemistry and Physiology) Topics for Skill Lab with Venue (Dr. Kashif) Date Discussion Schedule for Practical / Small Group Discussion Statis (all subjects) (BL/Small Group Discussion) (Biochemistry and Physiology) Mammary Gland (Anatomy/Histology- practical) Venue-Histology 1 aboratory (Dr. Kashif) Duy Histology Practical Batch Biochemistry Practical Practical / Small Group Discussion 1 A 01-70 • Astorption & Tonicity (Biochemistry practical) venue-Physiology Laboratory) Duy Histology Practical Name B Dr. Cashif A Dr. D 3. C 141-210 • Apparatus identification (Introduction to centrificge machine) (Physiology Laboratory) Wednesday E E D Dr. Uzma B Dr. C Dr. Fahd A 5. E 281-onwards Topics for Small Group Discussion with wenne Table No. 2 Batch Statuday A Dr. Zenear Saagh Naryam Maryam 5. E 281-onwards Topics for Small Group Discussion with wenne Table No. 2 Batch Statuday A Dr. Lab Maryam Maryam 6. E 281-onwards F <th></th> <th></th> <th></th> <th></th> <th></th> <th>7D 11</th> <th>NT 1 (5</th> <th>D' 10 (</th> <th></th> <th>00</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						7D 11	NT 1 (5	D' 10 (00							
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Nature Main anary Gana (Anatomy/Histology- (Bic/hemistry and Physiology) Anatomy/Histology- Practical Day Histology Practical Batch Bicohemistry Practical Physiology Practical	Batch Di	Istributio	n for Practical	Topics for Skill Lab w	ith Venue	D		TT' / 1	D (1	Sched	ule for Practical / S	Small Gro	Discussi	on	• 1		1 .
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Sh. No Batch Roll No. Adsorption & Tonicity (Biochemistry laboratory) Monday C Tuesday B Dr. All A Dr. B Dr. E Dr. B 2. B 71-140 - </td <td>C N</td> <td>D (1</td> <td></td> <td>Physiochemical aspects of the second se</td> <td>of cell-</td> <td>M 1</td> <td></td> <td>C</td> <td>Name</td> <td>D</td> <td></td> <td>Б</td> <td>Name</td> <td></td> <td>Name</td> <td>D</td> <td>Name</td>	C N	D (1		Physiochemical aspects of the second se	of cell-	M 1		C	Name	D		Б	Name		Name	D	Name
I. A 01-70 Instant Sheena D Sheena D 2. B 71-140 Paparatus identification (Introduction to centrifuge machine) (Physiology- Practical) Venue-Physiology Laboratory Tuesday E D Dr. Nayab A Dr. B Dr. C Dr. Almas D Dr. E Dr. Almas D Dr. B Dr. A	Sr. No	Batch	Koll No.	Adsorption & Tonicity (I	Biochemistry	Mond	lay	C	rof. iate)	В	Dr. Kanat	E	Dr. All	A Dr. Sheena		D	Dr. Uzma
Indextancy Indextancy <td>1</td> <td>Δ</td> <td>01.70</td> <td>practical) venue- Biocher</td> <td>mistry</td> <td>Tuesd</td> <td></td> <td>D</td> <td>y Pr soci lina</td> <td>C</td> <td>Dr. Novoh</td> <td>•</td> <td>Dr</td> <td>D</td> <td>Sneena Dr</td> <td>Б</td> <td>Dr</td>	1	Δ	01.70	practical) venue- Biocher	mistry	Tuesd		D	y Pr soci lina	C	Dr. Novoh	•	Dr	D	Sneena Dr	Б	Dr
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Bit death, Apoptosis Lecture Hail 3 B 91-180 Dr Qurath Ann New Lecture Hail Complex 05 • Biochemistry CBL – Genetics (PCR) - Loture Hall 2 • Biochemistry CBL – Genetics (PCR) - Table No. 3 Batch Distribution with Venues and Teachers Name for Small Group Disscussion (SGD) Physiology Anatomy Lecture Hall 03 Topic: Concept of Body Fluid and Internal Environment Date: 22-02-2024 Time: 10:10am – 11:00am Teachers Sr No. Batches Roll No Venue Teachers Sr No. Batches Roll No Venue Teachers Sr No. Batches Roll No Venue Teachers 1. A1 (01-35) Lecture Hall no.05 Dr. Farhat Jabeen 6. C2 (176-210) Lecture Hall NO. 05 Dr. Nayab Zonish (PGT Physiology) 2. A2 (36-70) Lecture Hall no.04 (1 st Floor Dr. Ali Zain 7. D1 (210-245) Lecture Hall NO. 03 Dr. Iqra Ayub (PGT Physiology) 3. B1 (71-105) Lecture Hall no.02 Dr. Afisheen Batool 8. D2 (246-280) Anatomy Museum (First Floor Anatomy) Dr. Muhammad Usman (PGT Physiology) 4. B2 (106- Conference room (Basement) Dr. Najam-us-Sehar (PGT Physiology)				death Apontosis Losture	I Juli 5	A	B 91-180			Dr. Zen		New Le	ecture Hall C	lomplex	02		
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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 (1 st 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 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 PI (Basement) 4. B2 (106- (144) Letterre Hull NO.04 Dr. Marere Alaber 10. <t< td=""><td></td><td></td><td></td><td>• Blochemistry CBL – Ger</td><td>letics (PCR) -</td><td></td><td></td><td>$\frac{101 - 2/0}{271}$ and a</td><td>da</td><td>Dr Sajja</td><td></td><td>Anaton</td><td>ly Lecture H</td><td>all 05</td><td></td><td></td><td></td></t<>				• Blochemistry CBL – Ger	letics (PCR) -			$\frac{101 - 2/0}{271}$ and a	da	Dr Sajja		Anaton	ly Lecture H	all 05			
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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 Dr. Farhat Jabeen (Physiology) 6. C2 (176-210) Lecture Hall NO.05 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 Dr. Afsheen Batool (PGT Physiology) 8. D2 (246-280) Anatomy Museum (First Floor Anatomy) Dr. Muhammad Usman (PGT Physiology) 4. B2 (106- (106- (Basement)) Conference room (PGT Physiology) Dr. Najam-us-Sehar (PGT Physiology) 9. E1 (281-315) Lecture Hall no.01 Dr. Fareed Ullah Khan (Demonstrator PI (PGT Physiology) 4. B2 (106- (Basement) Conference room (PGT Physiology) Dr. Najam-us-Sehar (PGT Physiology) 9. E1 (281-315) Lecture Hall no.01 Dr. Fareed Ullah Khan (Demonstrator PI (PGT Physiology) Dr. Markin Demonstrator PI	Topic:	Concept	of Body Fluid	and Internal Environment													
Sr No.BatchesRoll NoVenueTeachersSr No.BatchesRoll NoVenueTeachers1.A1(01-35)Lecture Hall no.05Dr. Farhat Jabeen6.C2(176-210)Lecture Hall NO.05Dr. 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.01Dr. Fareed Ullah Khan (Demonstrator PI (PGT Physiology)4.B2(106- (140)Conference room (Basement)Dr. Najam-us-Sehar (PGT Physiology)9.E1(281-315)Lecture Hall no.01Dr. Fareed Ullah Khan (Demonstrator PI (PGT Physiology)	Date:	22-02-2	024 Time: 10	10am – 11:00am													
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Image: Constraint of the second system of	1.	A	l (01-35)	Lecture Hall no.05	Dr. Farhat Jabe	een	6.	C2	(176-21	0)	Lecture Hall NO.	05	Dr. Nayab Z	Zonish (I	PGT Physiolo	gy)	
2. A2 (36-70) Lecture Hall no.04 (1 st 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 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 Pl (PGT Physiology)				(Physiology)	(PGT Physiolo	gy)					(Basement)		•		•		
Image: Market	2.	A2	2 (36-70)	Lecture Hall no.04 (1 st Floor	Dr. Ali Zain		7.	D1	(210-24	5)	Lecture Hall NO.	03	Dr. Iqra Ay	ub (PGT	' Physiology)		
3. B1 (71-105) Lecture Hall no.02 Dr. Afsheen Batool 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 Plantscher		Anatomy) (PGT Physic		(PGT Physiolo	gy)					(First Floor)							
Image: Market	3.	3.B1(71-105)Lecture Hall no.02Dr. Afsheen				atool	8.	D2	(246-28	0)	Anatomy Museum	n (First	Dr. Muham	mad Usr	nan		
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140) (Basement) (PGT Physiology) 5 C1 (141) Lecture Hell N0.04	4.	4.B2(106-Conference roomDr. Najam-u			Dr. Najam-us-S	Sehar	9.	E1	(281-31	5)	Lecture Hall no.01	l	Dr. Fareed	Ullah K	han (Demons	trator Ph	ysiology)
5 C1 (141 Lesture Hell NO 04 Dr. Marriere Abbes 10 E2 (215 annuards) Lesture Hell r_0 02 Dr. Kashif Bauf		(PGT Physiol			gy)												
5. C1 (141- Lecture Hall NO. 04 Dr. Maryam Abbas 10. E_2 (315 onwards) Lecture Hall no. 02 Dr. Kashi Kaul	5.	C1	(141-	Lecture Hall NO. 04	Dr. Maryam A	bbas	10.	E2	(315 on	wards)	Lecture Hall no.02	2	Dr. Kashif I	Rauf			
175)(Basement)(PGT Physiology)(Demonstrator Biochemistry)			175)	(Basement)	(PGT Physiolo	gy)							(Demonstra	tor Bioc	hemistry)		
Topic: Brachial plexus injuries and winging Of Scapula																	
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	Date: 11-03-2024 Time: 08:00am – 09:50am																
				Batche	s Roll No	An	atomy Te	acher		Venue							
				А	01-90	Dr. Z	eneara Saq	qib I	New L	Lecture Hall Complex 02							
				В	91-180	Dr Qı	ıraul Ain	1	New L	Lecture Hall Complex 03							
				С	181-270	Dr Sa	jjad	1	Anator	my Lecture Hall 03							
				D	271 and onwards	Dr Al	i Raza	I	Anator	my 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 N	0	Venue	Teachers						
1.	A1	(01-35)	Lecture Hall no.05		Dr. Mohtashim Hina	6.	C2	(176-210))	Lecture Hall NO. 05	Dr. Nayab Zonish (PGT Physiology)						
			(Physiology)		(Assoc. Prof.					(Basement)							
					Anatomy)												
2.	A2	(36-70)	Lecture Hall no.04	(1 st Floor	Dr. Aneela Jamil	7.	D1	(210-245))	Lecture Hall NO. 03	Dr. Iqra Ayub (PGT Physiology)						
			Anatomy)		(Assistant Professor					(First Floor)							
					of Biochemisty)												
3.	B1	(71-105)	Lecture Hall no.02		Dr. Afsheen Batool	8.	D2	(246-280))	Anatomy Museum (First	Dr. Muhammad Usman						
			(Basement)		(PGT Physiology)					Floor Anatomy)	(PGT Physiology)						
4.	B2	(106-	Conference room		Dr. Najam-us-Sehar	9.	E1	(281-315))	Lecture Hall no.01	Dr. Fareed Ullah Khan (Demonstrator Physiology)						
		140)	(Basement)		(PGT Physiology)												
5.	C1	(141-	Lecture Hall N0. 04	-	Dr. Sidra Hamid	10	E2	(315 onwa	ards)	Lecture Hall no.02	Dr. Kashif Rauf						
		175)	(Basement)		(Assistant Professor						(Demonstrator Biochemistry)						
					of Physiolgy)												
1					N	DDIC	action duri	ng this was	1.								

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		10:00am – 01:00 pm
18-03-2024	Orientation S	ession on ECE	_	Early Clinical Exposure
	Prof. Dr.	Ifra Saeed	ica	Basic Life Support
Monday	Lecture Th	and Basic Life Support (BLS) 9:30 – 09:45 AM 09:30am sion on ECE ra Saeed ater No. 2 ting Session Dr. Afifa kalsoom Research Team F, G, H, I & J Lecture Theater No. 3 evelopment Dr. Afifa kalsoom Research Team F, G, H, I & J Lecture Theater No. 3 on Data Analysis Dr. Afifa kalsoom Research Team F, G, H, I & J Lecture Theater No. 3 on Data Analysis Dr. Afifa kalsoom Research Team F, G, H, I & J Lecture Theater No. 3 SDL SDL Pakistan Day	Workshop (BLS)	
	Synopsis W1	riting Session		Early Clinical Exposure
19-03-2024	Dr. Khola Noreen	Dr. Afifa kalsoom	E) III	Basic Life Support
Tuesday	Research Team A, B, C, D & E	Research Team F, G, H, I & J	ECE	Workshop (BLS)
	Lecture Theater No. 2	Lecture Theater No. 3	for fe (
	Questionare	Development	sui	Early Clinical Exposure
20-03-2024	Dr. Khola Noreen	Dr. Afifa kalsoom	Li L	Basic Life Support
Wednesday	Research Team A, B, C, D & E	Research Team F, G, H, I & J	E	Workshop (BLS)
	Lecture Theater No. 2	Lecture Theater No. 3	pli	
	Hands on Session	on Data Analysis		Early Clinical Exposure
21-03-2024	Dr. Khola Noreen	Dr. Afifa kalsoom	Ass	Basic Life Support
Thursday	Research Team A, B, C, D & E	Research Team F, G, H, I & J		Workshop (BLS)
	Lecture Theater No. 2	Lecture Theater No. 3		
22-03-2024				
Friday		SDL		
	L.			
23-03-2024		Pakistan Day		
Saturday				

	Time Table 1 st year MBBS														
	Early Clinical Teaching and Training Posting														
_		Medicine				Surger	y + Trauma	Emergency				Basic Life Support (Bls)			
ł ł	Batch			Γ									Supervised	by Dr Jawad	
Distribu	tion & Units	HFH	HFH	BBH	BBH	BBH Unit-I	BBH Unit- II	Skill Lab	RIUT	BBH	BBH	LTC-1	LTC-2	LTC-3	LTC-4
		Unit-I	Unit- II	Unit-I	Unit- II	Dr. Sidra	Dr. Hina	HFH	(Emergency	Medicine	Surgery	Dr Asma	Dr Abeera	Dr Ayesha	Dr Anum
		(RIUT)	(RIUT)	Dr. Sana	Dr. Ali				Medicine)	Dr. Sana	Dr.		Zareen	Nazir	Malik
		Dr.	Dr Nida	Ahmed	Murtaza				Dr. Iqra	Ahmed /	Sidra /				
		Seemab	Anjum						Ashraf / Dr.	Dr. Ali	Dr.				
			/ Dr.						Aeiman	Murtaza	Hina				
			Unaiza												
		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
Modules	Dates / Days	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
lule	Monday 18-03-2024	Medicine (A BATCH)				Surgery (I	O BATCH)	Emergency (C BATCH)			BLS (B BATCH)				
ndation Mod	Tuesday 19-03-2024	Medicine (B BATCH)			H)	Surgery (A BATCH)		Emergency (D BATCH)				BLS (C BATCH)			
	Wednesday 20-03-2024	I	Medicine	(C BATCI	H) Surgery (B BATCH)		B BATCH)	Emergency (A BATCH)				BLS (D BATCH)			
Fou	Thursday 21-03-2024	Ν	Medicine	(D BATCI	H)	Surgery (C BATCH)		Emergency (B	BATCH)		BLS (A BATCH)			

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)

	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					

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

Details of Batch Distribution

List of Facilitators with Venues

Sr. No	Venue	Batch Inc	harge
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	
26-03-2024	(2 days)	
Tuesday	(5 days)	
27-03-2024	25 march -27 warch, 2024	
Wednesday		
28-03-2024		
Thursday		
29-03-2024	Common common of MSK I Module	
Friday	Commencement of MSK-1 Module	
30-03-2024		
Saturday		

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

Block					
	Sr #	Found	lation Module Comp	onents	
		Assessment	Dates	Course	TOS
	1	Mid Module Examinations LMS based (Anatomy, Physiology & Biochemistry)	02-03-2024 Saturday (Evening time)	Topics covered till 01-03-2024	10 MCQS each from Anatomy, Physiology & Biochemistry
	2	Topics of SDL Examination on MS Team	06-03-2024 Wednesday	SDL Topics covered till 05-03- 2024	10 MCQS each from Anatomy, Physiology & Biochemistry
	3	End Module Examinations (SEQ & MCQs Based)	25-03-2024 to 30-03-2024 Monday to Saturday	All dicipilne wise content covered in module	TOS given in page no. 111
ock-I	4	Anatomy Structured and Clinically Oriented Viva	28-03-2024 Thursday	Anatomy Content	TOS given in page no. 111
Blc	5	Physiology Structured & Clinically oriented Viva voce	29-03-2024 Friday	Physiology Content	TOS given in page no. 111
	6	Biochemistry Structured & Clinically oriented Viva voce	30-03-2024 Saturday	Biochemistry Content	TOS given in page no. 111
	7	Assessment of Clinical Lectures on MS Team	14-03-2024 Thursday	Vertically Integrated Component	24 MCQs
	8	Assessment of Spiraly Integrated Lectures on MS Team	14-03-2024 Thursday	Spirally Integrated Component	10 MCQs
	9	Assessment of IUGRC Lectures on MS Team	14-03-2024 Thursday	11 MCQs	

Assessment Schedule of Foundation Module I

*Note: Dates Subject to Change

SECTION VIII

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

Details of Written Assessment and Viva Voce

Sr No	Subject	No of SAQs	Marks	Overall %	Distribution with domain	No of MCQs	Marks	Overall %	Distribution with domain	Total no. of Viva						
										Questions (K)						
1	Anatomy	4	20 (5	50% Core Knowledge (2 Questions)	Q1: Core Knowledge (25%) Q2: Core Knowledge (25%)	35	35	50% Core Knowledge	Core Knowledge 48% (Approx. 50%) (17 MCQs)	6 (25 Marks)						
1.	Anatomy	•	Mark s each)	50%Integration s (2 Questions)	Q3: Spiral Integration (25%) Q4: Vertical integration (12.5%) + Horizontal integration (12.5%)		(I Mark each)	50%Integrations	Spiral Integration 20% (7 MCQs)Horizontal Integration 8.5% (3MCQs)Vertical Integration 22.8% (8 MCQs)							
2.			20	50% Core Knowledge (2 Questions)	Q1: Core Knowledge (25%) Q2: Core Knowledge (25%)			50% Core Knowledge	Core Knowledge 48% (Approx. 50%) (17MCQs)	6 (25 Marks)						
	Physiology	4	(5 Mark s each)	(5 Mark s each)	(5 Mark s each)	(5 Mark s each)	(5 Mark s each)	(5 Mark s each)	(5 Mark s each)	50%Integration s (2 Questions)	Q3: Spiral integration (25%) Q4: Vertical integration (12.5%) + Horizontal integration (12.5%)	35	35 (1 Mark each)	50%Integrations	Spiral Integration 20%(7MCQs) Horizontal Integration 8.5% (3 MCQs) Vertical Integration 22.8% (8 MCOs)	
3.			20	50% Core Knowledge (2 Questions)	Q1: Core Knowledge (25%) Q2: Core Knowledge (25%)		25	50% Core Knowledge	Core Knowledge 48% (Approx. 50%) (17MCQs)	6 (25 Marks)						
	Biochemistry	4	4	(5 Mark s each)	50%Integration s (2 Questions)	Q3: Spiral integration (25%)ionQ4: Vertical integration(12.5%) + Horizontal integration (12.5%)35	35	35 (1 Mark each)	50%Integrations	Spiral Integration 20% (7 MCQs) Horizontal Integration 8.5% (3 MCQs)						
	Total	12	60 Mar	·ks		105	105 Ma	rks	vertical integration 22.6 /0 (6 Mie (S)	75 Marks						
	SAQs MCQs															
	Total Marks : 60+105+75= 240 Marks															

Table of Specification (TOS) For Annual Assessment for First Year MBBS

	Madula	Total number of	Total number	Total no. of Viva	Total no. of OSPE	Total	
Anatomy	Module	SAQs (K)	of MCQs (K)	questions (K)	Stations (P)		
	Foundation Module	2 (5 Marks each)	17 (1 Mark each)	6 (25 Marks)	2 (5 marks each)		
	Musculoskeletal – I Module	2 (5 Marks each)	18 (1 Mark each)	6 (25 Marks)	2 (5 marks each)		
Total number of	questions of the specific subjects	4 SAQs	35MCQs	12 Viva	4 stations	4+35+12+4 = 55	
Total number of	marks of the specific subjects	(20 Marks)	(35 Marks)	(50 Marks)	(15 Marks)	20+35+50+20 = 125	
Physiology	Foundation Module	2 (5 Marks each)	17 (1 Mark each)	6 (25 Marks)	1(5 marks each)		
Thyblology	Musculoskeletal – I Module	2 (5 Marks each)	18 (1 Mark each)	6 (25 Marks)	2(5 marks each)		
Total number of subjects	questions of the specific	4 SAQs	35MCQs	12 viva	3 stations	4+35+12+3 = 54	
Total number of	marks of the specific subjects	(20 Marks)	(35 Marks)	(50 Marks)	(20 Marks)	20+35+50+15 = 120	
	Foundation Module	2 (5 Marks each)	17 (1 Mark each)	6 (25 Marks)	1 (5 marks each)		
Biochemistry	Musculoskeletal – I Module	2 (5 Marks each)	18 (1 Mark each)	6 (25 Marks)	2 (5 marks each)		
Total number of questions of the specific subjects		4 SAQs	35MCQs	12 Viva	3 stations	4+35+12+3 = 54	
Total number of	f marks of the specific subjects	(20 Marks)	(35 Marks)	(50 Marks)	(15 Marks)	20+35+50+15 = 120	
Total number of questions In a Block							
Total Marks In a Block 1 I 1							

Annexure I

- Model Templates for MCQ & SEQ Paper,
 - MCQ & SEQ Sample

Rawalpindi Medical University Rawalpindi Model Template for MCQ Paper (Module & Block)

Total Marks:35 (1 mark for each question)

Date:

Roll No.____

Total Time:35 MinutesEncircle the

Encircle the single best response

Q.#		Integrated & Clinically Oriented Assessment of the Subject of Anatomy (MCQ Paper) Section - A: Anatomy Core Knowledge 48%	Level of Cognition
	(i)	Gross: 24%	
1.	a.	b.	
	с.	d.	C2
	e.		
2.	a.	b.	
	с.	d.	C2
	e.		
3.	a.	b.	
	с.	d.	C1
	e.		
4.	a.	b.	
	с.	d.	C1
	e.		
5.	a.	b.	
	с.	d.	C3
	e.		
6.	a.	b.	
	с.	d.	C3
	e.		
7.	a.	b.	
	c.	d.	C3
	e.		
	υ.		1

8.	a.	b.	
	с.	d.	C2
	e.		
9.	а.	b.	
	с.	d.	C3
	e.		
(ii)	Histology: 12%		
10.	a.	b.	
	с.	d.	C1
	е.		
11.	a.	b.	
	с.	d.	C1
	e.		
12.	a.	b.	
	с.	d.	C1
	е.		
13.	а.	b.	
	с.	d.	C1
	е.		
(iii)	Embryology: 12%		
14.	a.	b.	
	с.	d.	C1
	e.		
15.	a.	b.	
	с.	d.	C3
	e.		
16.			
	a.	b.	C2
	с.	d.	~~
	е.		
17.	a.	b.	
	с.	d.	C1
	e.		

		Section - B: Anatomy Horizontal Integrations 9%	
Horiz	ontal Integration	n with Physiology (6%)	
18.	a.	b.	
	с.	d.	C3
	e.		
19.	a.	b.	
	с.	d.	C3
	e.		
Horiz	ontal Integration	n with Biochemistry (3%)	
20.	a.	b.	
	с.	d.	C3
	e.		
		Section - C: Anatomy Vertical Integration 23%	
21.	a.	b.	
	с.	d.	~~
	e.		C2
22.	a.	b.	
	с.	d.	C3
	e.		
23.	a.	b.	C3
	с.	d.	0.5
	e.		
24.	a.	b.	
	с.	d.	
	e.		C3
25.	a.	b.	
	с.	d.	C2
	e.		
26.	a.	b.	
	с.	d.	C2
	e.		0.2

27.	a.	b.	
	с.	d.	C1
	e.		
28.	a.	b.	
	с.	d.	C3
	e.		
		Section - D: Anatomy Spiral Integration 20%	
Resea	arch (5.7%)		
29.	a.	b.	
	с.	d.	
	e.		CI
30.	a.	b.	
	с.	d.	C1
	e.		CI
Bioet	hics (5.7%)		
31.	a.	b.	
	с.	d.	C1
	e.		
32.	a.	b.	
	с.	d.	
	e.		
Fami	ly Medicine (5.7%)	
33.	a.	b.	
	с.	d.	C2
	e.		C.S
34.			
	a.	b.	
	с.	d.	
	e.		

Artif	icial Intelligence	(2.85%)		
35.	a. c. e.		b. d.	C2

RAWALPINDI MEDICAL UNIVERSITY ANATOMY DEPARTMENT 1ST YEAR MBBS MCQs FOUNDATION MODULE EXAM

- 1. In a CT scan, a frame is taken longitudinally through the sagittal suture. This plane is also called as
 - a. Median Plane
 - b. Para Saggital plane
 - c. Coronal Plane
 - d. Frontal plane
 - e. Transverse plane
- 3. After a road traffic accident, a patient presented in ER with pain Upper limb. Radiologist reported the fracture of medial epicondyle of humerus. The nerve prone to injury at this level of humerus is:
 - a. Axillary nerve
 - b. Ulnar nerve
 - c. Median nerve
 - d. Radial nerve
 - e. Scapular nerve
- 5. Most of lymph of breast drains to:
 - a. Pectoral lymph nodes.
 - b. Internal thoracic lymph nodes.
 - c. Apical lymph nodes.
 - d. Central lymph nodes.
 - e. Subscapular lymph node.

- 2. During assessment of motor system of the upper limb, the doctor supinates the upper limb. During this movement there is a
 - a. Decrease in the angle at the elbow joint
 - b. Increase in the angle at the elbow joint
 - c. Rotation of the forearm and hand laterally from the midprone position
 - d. Rotation of the forearm and hand medially from the midprone position
 - e. Movement such as palm of the hand faces posteriorly
- 4. During clinical examination of a 52 years old female, a swelling was found under the skin of chest coinciding with the lateral border of teres major. The group of lymph nodes most likely involved is
 - a. Anterior axillary
 - b. Posterior axillary
 - c. Apical
 - d. Central
 - e. Infraclavicular

RAWALPINDI MEDICAL UNIVERSITY ANATOMY DEPARTMENT 1ST YEAR MBBS SEQs FOUNDATION MODULE EXAM

Note: Attempt all questions. All questions carry equal marks. Draw diagram where necessary

- 1. During a difficult labour baby's upper limb was excessively pulled. Later on he developed right sided muscular weakness in forearm and a claw hand.
 - a. Name the condition he is suffering from? (1)
 - b. Give relations of brachial plexus with special reference to axillary artery. (2)
 - c. Enumerate nerves arising from roots and trunks of brachial plexus. (2)

(1)

- 2. A female patient of 42 years of age presented to hospital with painless swelling of left breast along that was firm and adherent to chest wall. On examination, oedematous skin was also present around the swelling.
 - a. Name the condition she may be suffering from
 - b. Give anatomical reason why breast tissue is fixed to underlying chest wall(2)
 - c. Discuss lymphatic drainage of breast

RAWALPINDI MEDICAL UNIVERSITY PHYSIOLOGY DEPARTMENT 1ST YEAR MBBS MCQs FOUNDATION MODULE EXAM

1. Peroxisomes contain:	2. Gain of the feedback system is calculated by:
a. Lipase	a. Gain= correction error
b. Oxidase	b. Gain error/ correction
c. Hydrolase	c. Gain correction/error
d. ATPase	d. Gain-correction-error
e. Transferase	e. Gain-correction/error 100
3. Enzymes necessary for oxidative phosphorylation are present mainly in which part of	4. Following part of cilia has ATPase activity:
mitochondria?	a. Axoneme
a. Cristae	b. Tubulin
b. Mitochondrial matrix	c. Flagellum
c. Outer membrane	d. Basal body
d. Inner membrane	e. Dynein arm
e. Outer chamber	
5. The sequence of three DNA bases in a gene is called:	

a. DNA polymer

b. Codon

c. Anticodon

d. Genetic code

e. Okazaki fragment

RAWALPINDI MEDICAL UNIVERSITY PHYSIOLOGY DEPARTMENT 1ST YEAR MBBS SEQs FOUNDATION MODULE EXAM

Q.1	a. Define active transport and name its types ((1,1)				
	b. Enumerate the functions of Golgi apparatus	(3)				
Q.2	A 40 years old male presented in medical emergency with complaints of severe					
heada	che, confusions and fatigue. On examination his blood pressure	e was 180/110?				
a. Define homeostasis? Name the type of feedback mechanism that controls blood						
pressu	ure? (2)					
b. Write down the functions of glycocalyx? (3)						

RAWALPINDI MEDICAL UNIVERSITY BIOCHEMISTRY DEPARTMENT 1ST YEAR MBBS MCQs FOUNDATION MODULE EXAM

1. Serum enzyme begins to raise in 4-8 hours of acute Myocardial Infarction is:

- a. CKMB
- b. LDH
- c. AST
- d. ALT
- e. Gama GT
- 3. The nitrogen base in inosine monophosphateis:
 - a. Ionone
 - b. Inulin
 - c. Hypoxanthine
 - d. Xanthine
 - e. Inosine

<u>SEQ</u>

Q1. a. Describe different mechanisms of enzyme catalysis. 2.5b. Explain Base Excision Repair of DNA. 2.5

2. Fluidity of cell membrane is maintained by

- a. Water
- b. Triglycerides
- c. Cholesterol
- d. Integral protein
- e. Peripheral protein
- 4. Transfer RNA transfers:
 - a. Information from DNA to ribosomes
 - b. Information from mRNA to cytosol
 - c. Amino acid from cytosol to ribosomes
 - d. Proteins from cytosol to ribosomes
 - e. Protein form ribosome to Golgi apparatus

RAWALPINDI MEDICAL UNIVERSITY BIOETHICS DEPARTMENT 1ST YEAR MBBS MCQs FOUNDATION MODULE EXAM

1Includes rules of conduct that may be used to regulate our activities concerning	2. The right of patients having self-decision is called.
the biological world.	a. Justice
a. Bio-piracy	b. Autonomy
b. Biosafety	c. Beneficence
c. Bioethics	d. Veracity
d. Bio-patents	e. Fidelity
e. Bio-logistic	
3. Following is not code of ethics.	4in the context of medical ethics, if it's fair and balanced
a. Integrity	a. Justice
b. Objectivity	b. Autonomy
c. Confidentiality	c. Beneficence
d. Behaviour	d. Veracity
e. Autonomy	e. Fidelity
5Principle requiring that physicians provide, positive benefits	
a. Justice	
b. Autonomy	
c. Beneficence	
d. Veracity	
e. Fidelity	

Annexure II

• Structured Viva

Department of Anatomy

Foundation Module (Structured Viva)

Date: 21-03-2023 Time: 8:00-2:00pm

Roll no: 181 onwards

P: Punctuality, D: Dressing, C: Communication

Roll no.	Anatomicomedical terminologies (C1-C3) (05)	Osteology and arthrology (C1-C3) 20	Axioappendicular muscles and Axilla (C1-C3) (10)	Breast (C1-C3) (05)	Brachial plexus and injuries (05)	Surface marking (skill) (05)	Soft tissue spotting (skill) (05)	Gross sketch copy (skill) (02)	Professionalis m (PCD) (03)	Total marks (60)

Examiner

Sign ____

Stamp

*Objective Structured Practical Examination (OSPE) will be held in end of block assessment.

Department of Physiology Foundation Module (Structured Viva)

MOD	ULE:	DATE:		TEACHER NAME: _			SIGNATURE	
Sr. No.	Roll No.	Students Name	Definition/ Enlist/Enumerate	Physiological/ Pathophysiological Mechanism	Related Diseases/ Diagnostic Parameters/ Management / Treatment Guidelines	Additional Domains of knowledge to be Assessed - Family Medicine /Preventive Medicine e. Artificial Intelligence) - Counseling - Prevention - Social Impact - Psychosocial impact - Community Implestion	Professionalism & Behavior Components; • Appropriate dressing & white coat • College ID cardwith picture • Behavior • Level of Confidence/ Non verbal Body language Communication 5kills • Language of Communication • Volume of voice • Clanty & fluency of speech	Total marks obtained out of 25
			Q=1 C1 (5Marks)	Q=2 C2 (8 Marks)	Q=3 C3 (6 Marks)	Prevalence / algorithms C1/C2/C3 (2 Marks)	Understanding of questions Prioritizing the answers A3 (4 Marks)	
-	-							
								-
-								

Updated on: 7th October 2023

Prof. Dr Samia Sarwar

Department of Physiology

Rawalpindi Medical University

*Objective Structured Practical Examination (OSPE) will be held in end of block assessment.

Department of Biochemistry Foundation Module (Structured Viva)

	Date:		Time: Teacher's Name			
Roll No.	Classification/ Definition/ Enumerate (C1) (05 Marks)	Metabolic role/ Mechanism of action/ Physiological mechanism (C2) (08 Marks)	Related clinical disorders/ Pathogenesis (C3) (06 Marks)	Additional domains of Knowledge to be assessed Family Medicine, Artificial Intelligence, Ethics and Research (C1, C2, C3) (02 Marks)	Professionalism & Behavior (A3) (04 Marks)	Total marks (25)

Dr. Aneela Jamil Head of Biochemistry Department Rawalpindi Medical University Rawalpindi

*Objective Structured Practical Examination (OSPE) will be held in end of block assessment.