Integrated Spiral Clinically Oriented Modular Curriculum for First Year MBBS

Foundation Module - I Time Table

First Year MBBS

Session 2025

Batch- 52

Foundation Module - I Team

Module Name	:	Foundation Module - I
Duration of module	:	06 Weeks
Coordinator	:	Dr. Tayyaba Qureshi
Co-coordinator	:	Dr. Zenera Saqib
Reviewed by	:	Module Committee

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

Module Task Force Team		
1.	Coordinator	Dr. Tayyaba Qureshi (Assistant Professor of Anatomy)
2.	DME Focal Person	Dr. Farzana Fatima
3.	Co-coordinator	Dr. Zenera Saqib (Demonstrator of Anatomy)
4.	Co-Coordinator	Dr. Uzma Kiyani (Senior Demonstrator of Physiology)
5.	Co-coordinator	Dr. Raja Khalid Yaqoob (Demonstrator of Biochemistry)

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

Discipline Wise Details of Modular Content

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

	Orientation Sessions	
	• Welcome Address by VC, Introduntion to RMU • Introduction to Department of Medical Education & Integrated Modular System. • Assessment Model of RMU And Continuous Internal Assessment • Research Model of RMU (IUGRC), Biomedical Ethics, & Family Medicine • Introduction to Digital Services RMU • Introduction to Anatomy Department • Introduction to Physiology Department • Introduction to Biochemistry • Introduction to Behavioral Sciences • Intorduction to Pharmacology • Introduction to Pathology • Introduction to Community Medicine & Research Model of RMU	
	Spiral Courses	
	• Bioethics & Professionalism	• Introduction to history of medical ethics • Leadership Professionalism (DME)
	• Family Medicine	• Introduction to Family Medicine & its application in health care system
	• Integrated Under Graduate Research Innovation (IUGRC)	• Research I Introduction of health research process • Research II characteristic of research process • Research III Basis of ethics in health research • Research IV Basics of ethics in medical research
	• Behavioral Sciences	• Introduction to Behavioral Sciences • Stress in Medical Students & its Managment
	• Information Technology (IT)	• How to use Higher Education Commission (HEC) digital library.
	• Community Medicine (Life Style and Prevention)	• Healthy Lifestyle: A Foundation for Medical Professionals
	Vertical Integration	
	• Pathology	Clinically content relevant to Foundation Module - I • Introduction to Pathology • Cellular Responses to Injury • Intracellular Accumulations • Pigments • Free Radicals/ Reactive Oxygen Species (Ros). • Oxidative StressIrreversible Injury.

		• NecrosisApoptosis (Irreversible Injury) • Genetic Disorders
	• Pharmacology	• Introduction to Pharmacology • Pharmacokinetic processes • Receptors and signal transduction processes
	• Community Medicine	• Introduction to Community Medicine & Research Model of RMU • Immunization & Vaccination • Health Determinants & Indicators • Life Style Medicine • Health Education & Communication
	• Medicine	• Introduction to Medicine and History of Medicine • Chromosomal Abrassions
	• Surgery	• History taking & its importance • CA Breast
	• Obstetrics & Gynaecology	• Infertility • Invitro Fertilization
	• Peadiatrics	• Medical Genetics & Dysmorphology
Early Clinical Exposure (ECE)		
	Departments • Medicine & Allied • Surgery and Trauma • Emergency Department	Skill - 1: Hand Washing Skiill – 2: Wearing Gloves Skill – 3: Providing Basic Life Support in Adults Skill – 4: Scrubbing for Operation Theatre
Clinical Relevance		
	• Medical Ethics • Genetic Disorders • Understanding cellular and molecular mechanisms in disease (e.g., cancer and diabetes) • Importance of homeostasis in maintaining normal physiological function (e.g., dehydration and acid-base imbalances) • Application of medical ethics in real-life scenarios, such as patient confidentiality • Effective doctor-patient communication in history-taking and empathy	

Categorization of Modular Content of Anatomy:

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

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Anatomy

Sr. #	Designation of Teaching Staff / Human Resource	Total Number of Teaching Staff
1.	Professor of Anatomy department	01
2.	Associate professor of Anatomy department	02
3.	Assistant professor of Anatomy department (AP)	05
4.	Demonstrators of Anatomy department	08

Contact Hours (Faculty)

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

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	12 hours
2.	Small Group Discussions (SGD)	32 hours
3.	Case Based Learning (CBL)	2 hours
4.	Practical / Skill Lab	6.4 hours
5.	Supervised Self-Directed Learning (SSDL)	2 hours
6.	Self-Directed Learning (SDL)	7 hours

Categorization of Modular Content of Physiology:

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

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Physiology

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

Contact Hours (Faculty) & Contact Hours (Students)

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

Categorization of Modular Content of Department of Biochemistry:

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

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

Category B:** By Senior Demonstrators

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Biochemistry

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

Contact Hours (Faculty) & Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (student)
1.	Large Group Interactive Session (LECTURES)	2 * 11 = 21 +1 =22 hours	11
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 - I (First Week)
(17-02-2025 to 22-02-2025)

Date/Day	8:30 AM – 11:00 AM	11:00 AM – 11:40AM	11:40 AM – 12:20 PM	12:20-1:00PM		1:00-PM – 02:00 PM
17-02-2025 Monday	Welcome address by VC Introduction to RMU, Allied hospitals	Orientation to RMU Curricular Reforms				Introduction To Digital Services Of RMU
		, Introduction to Medical Education Department & Integrated Modular System	Assessment Model of RMU & Continuous Internal Assessment	Research Model of RMU (IUGRC), Biomedical Ethics Family Medicine,	BREAK 12:00 –12:20PM	Introduction To LMS, CMS, MS Teams (Online Component of Curriculum)
HR		Prof. Dr. Ifra Saeed / Dr. Farzana Fatima	Dr. Arsalan Mughal	Dr. Sadia Khan & Dr Khaula Noreen		Director IT Hafi Shahid Rasool
Venue	LATIF AUDITORIUM					LATIF AUDITORIUM
18-02-2025 Tuesday	**8:00 AM – 9:00 AM**	**9:00 AM – 10:00 AM**	**10:00 AM – 11:00 AM**	**11:00-12:00** / **12:20 PM – 1:00 PM**		**1:00-2:00 PM**
	Introduction to Anatomy Department	Introduction to Physiology Department	Introduction to Biochemistry Department	**BEHAVIORAL SCIENCES(LGIS)** / Introduction to Behavioral Sciences	**PHARMACOLOGY** / Introduction to Pharmacology	Anatomy Bio data forms, Physiology & Biochemistry bio data forms
HR	Prof. Dr. Ayesha Yousaf (HOD & DEAN) **	Prof. Dr. Samia Sarwar **	Dr. Aneela**	Prof. Dr. Asad Nizami	Dr Arsheen	Dr. Fareed, Dr. Kashif Dr. Ali Raza
Venue	Lecture Theatre Complex Hall No 2					Lecture Theatre Complex Hall No 2
19-02-2025 Wednesday	**8:00 AM- 10:00AM**	**10:00-11:00**	**11:00 AM – 12:00 AM**		**12:20 AM – 1:00 PM**	**1:00-2:00 PM**
	DISSECTION / SGD	**PATHOLOGY**	**PHYSIOLOGY (LGIS)**		**COMMUNITY MEDICINE**	**BIOCHEMISTRY (LGIS)**
	Anatomicomedical terminologies I (positions and planes)	Introduction to Pathology	Cell Physiology & homeostasis / Concept of body fluids & Internal environment		Introduction to Community Medicine & Research Model of RMU	Cell Organelles (1) / Cell membrane
HR	2 Assistant Professors, 4 Demonstrators 6 Batches of Students	Dr Rabbiya Khaalid (Even) / Dr Sara Rafi (Odd)	Dr. Faizania Shabir (Even) / Dr. Sidra Hamid (Odd)		Dr. Khaula Noreen	Dr. Nayab (Even) / Dr. Kashif Rauf (Odd)
20-02-2025 Thursday	**8:00 AM – 10:00 AM**	**10:00 – 11:00AM**	**11:00- 12:00PM**		**12:00 – 01:00PM**	**1:00-2:00 PM**
	DISSECTION/SGD	**BEHAVIORAL SCIENCES (LGIS)**	**PHYSIOLOGY (LGIS)**		**ANATOMY (LGIS)**	**COMMUNITY MEDICINE**
	Anatomicomedical terminologies II (Anatomical terms and axis of movements)	Stress in Medical Students & its Managment	Concept of body fluids & Internal environment / Cell Physiology & homeostasis		Embryology / Introduction to Human Development; General Anatomy / Introduction to General Anatomy	Immunization & Vaccination
HR	2 Assistant Professors, 4 Demonstrators 6 Batches of Students	Dr. Azeem Rao (Odd) / Dr. Sadia Yasir (Even)	Dr. Sidra Hamid (Even) / Dr. Faizania Shabir (Odd)		Prof. Ayesha Yousaf (Even) / Asso. Prof. Dr Arslan (Odd)	Dr. Farah Pervaiz (Even) / Dr. Asif Maqsood (Odd)
21-02-2025 Friday	**8:00 AM – 9:00 AM**	**9:00 AM – 10:00 AM**	**10:00 AM – 11:00 AM**		**11:00 AM – 12:00 PM**	
	COMMUNITY MEDICINE	**ANATOMY LGIS**	**COMMUNITY MEDICINE (RESEARCH-I)**		**PHARMACOLOGY LGIS**	Friday Prayers
	Health Determinants & Indicators	General Anatomy / Embryology; Introduction to General Anatomy / Introduction to Human development	Introduction to Health Research Process and Researcher		Pharmacokinetic processes	
HR	Dr. Farah Pervaiz (Odd) / Dr. Asif Maqsood (Even)	Asso. Prof. Dr Arsalan (Even) / Prof. Dr. Ayesha Yousaf (Odd)	Dr. Rizwana Shahid (Odd) / Dr. Abdul Qudoos (Even)		Dr. Saba	
22-02-2025 Saturday	**8:00 AM – 9:00 AM** **9:00 AM – 10:00 AM**	**10:00 AM – 11:00 AM**	**11:00 AM – 12:00 AM**		**12:00 AM – 1:00 PM**	**1:00 - 2:00 PM**
	DISSECTION/SGD	**PATHOLOGY (LGIS)**	**PHARMACOLOGY LGIS**		**BIOCHEMISTRY (LGIS)**	**COMMUNITY MEDICINE**
	Anatomicomedical terminologies III (Cell and tissues)	Cellular response to Injury	Receptors and signal transduction processes		Cell membrane / Cell Organelles-I	Life Style Medicine
HR	2 Assistant Professors, 4 Demonstrators 6 Batches of Students	Dr Sara Rafi (Even) / Dr Rabbiya Khaalid (Odd)	Dr. Memuna		Dr. Kashif Rauf (Even) / Dr. Nayab (Odd)	Dr. Farah Pervaiz (Even) / Dr. Asif Maqosod (Odd)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Discussion (Biochemistry and Physiology)			Table No. 1 (Time: 12:20pm – 02:00pm) Schedule for Practical												
			Day	**Histology Practical**		**Biochemistry Practical**			**Physiology Practical**			**Physiology SGD**		**Biochemistry SGD**	
				Batch	**Teacher Name**	**Batch**	**Teacher Name**		**Batch**	**Teacher Name**		**Batch**	**Teacher Name**	**Batch**	**Teacher Name**
Sr. No	Batch	Roll No.	Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
1.	**A**	01-70	Tuesday	**D**		**C**	Dr. Sana Latif		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Rahat
2.	**B**	71-140	Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Almas
3.	**C**	141-210	Thursday	**B**		**A**	Dr. Almas		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Sana Latif
4.	**D**	211-280	Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Romessa
5.	**E**	281-onwards													

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nazia (Demonstrator Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah ali Shah (Demonstrator of Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator of Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Qurat Ul Ain (Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	New Lecture Hall Complex Lecture Theater # 03	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 60	A1: Roll No (1 – 15) A2: Roll No (16 – 30) A3: Roll No (31 – 45) A4: Roll No (46 – 60)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
B	61-120	B1: Roll No (61 – 75) B2: Roll No (76 – 90) B3: Roll No (91 – 105) B4: Roll No (06 – 120)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
C	121-180	C1: Roll No (121 – 135) C2: Roll No (136 – 150) C3: Roll No (151 – 165) C4: Roll No (166 – 180)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 04
D	181- 240	D1: Roll No (181 – 195) D2: Roll No (196 - 210) D3: Roll No (211 – 225) D4: Roll No (226 – 240)	Dr. Qurat ul Ain (Senior. Demonstrator)	New Lecture Hall Complex 01
E	241- 300	E1: Roll No (241 – 255) E2: Roll No (256 – 270) E3: Roll No (271 – 285) E4: Roll No (286 – 300)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
F	301- onwards	F1: Roll No (301 – 315) F2: Roll No 316 – 330) F3: Roll No 331 – 345) F4: Roll No (346 – onwards)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Time Table for Foundation Module - I (Second Week)
(24-02-2025 to 01-03-2025)

Date/ Day	8:00 AM – 9:00 AM	9:00 AM – 09:50 AM	9:50AM – 10:10AM	10:10 AM – 11:00 AM	11:00 AM – 11:50 AM	11:50 AM - 12:20 PM	12:20 PM - 02:00PM	Home Assignment
24-02-2025 Monday	**DISSECTION/ SGD** Anatomicomedical Terminologies IV (Skin and body systems)		Break	**PHYSIOLOGY (LGIS)** Cell membrane & classification of cell organelles / Dr. Faizania Shabir (Even) Intracellular communication and cell junction / Dr. Sidra Hamid (Odd)	**PHYSIOLOGY (LGIS)** Intracellular communication and cell junction / Dr. Sidra Hamid (Even) Cell membrane & classification of cell organelles / Dr. Faizania Shabir (Odd)	Break	**Practical & SGD** Topics& Venue mentioned at the end (Refer to table no. 1)	SDLPhysiology Homeostasis
25-02-2025 Tuesday	**DISSECTION/ SGD** Clavicle	**ANATOMY CBL** Fracture of Clavicle (Refer to table no. 1)		**PHYSIOLOGY SGD** Concept of Body Fluid and Internal Environment Refer to Table No.3	**PHYSIOLOGY (LGIS)** Cell organelles& cell function - I / Dr. Faizania Shabir (Even) Receptor and signal transduction / Dr. Sidra Hamid (Odd)		**Practical & SGD** Topics& Venue mentioned at the end (Refer to table no. 1)	SDLPhysiology Homeostatic control mechanism
26-02-2025 Wednesday	**DISSECTION/ SGD** Scapula	**SUPERVISED SDL** Scapula Anastomosis & its Clinical Significance		**COMMUNTIY MEIDICNE (RESEARCH-II)** Characteristics of Research Process and Health Research Process / Dr. Rizwana Shahid (Odd) / Dr. Abdul Qudoos (Even)	**SURGERY** History taking & its importance / Dr. Asad Amir (Even) / Dr. Hira (Odd)		**Practical & SGD** Topics& Venue mentioned at the end (Refer to table no. 1)	SDL Boichemistry Biomarkars and their clinical importance of Cell organelles
27-02-2025 Thursday	**COMMUNITY MEDICINE LGIS** Health Education & Communication / Dr. Farah Pervaiz (Even) / Dr. Asif Maqsood (Odd)	**BIOCHEMISTRY LGIS** Cell Organelle-II / Dr. Nayab (Even) Transport across cell membrane / Dr. Kahsif Rauf (Odd)		**PHYSIOLOGY (LGIS)** Receptor and signal transduction / Dr. Sidra Hamid (Even) Cell organelles & related cell function - I / Dr. Faizania Shabir (Odd)	**GUEST LECTURE** Anti - Narcotic ANF Team		**Practical & SGD** Topics& Venue mentioned at the end (Refer to table no. 1)	SDL Biochemistry Cell Membrane Transport Across Cell Membrane

Date/ Day	8:00 AM – 9:00 AM	9:00 AM – 10:00 AM	10:00 AM – 11:00 AM	11:00 AM – 12:00 PM	11:50 AM - 12:20 PM	12:20 PM - 02:00PM	Home Assignment
28-02-2025 Friday	**BIOCHEMISTRY LGIS** Transport across cell membrane / Dr. Kashif Rauf (Even) Cell organelle-II / Dr Nayab (Odd)	**PATHOLOGY (LGIS)** Intra Cellular accumulation / Dr Rabbiya Khaalid (Even) / Dr Sara Rafi (Odd)	**COMMUNTIY MEIDICNE (RESEARCH-III)** Basic of Ethics in Health Research / Dr. Rizwana Shahid (Even) / Dr. Abdul Qudoos (Odd)	**PBL 1 (SESSION-I)** PBL Team	SDL Anatomy Green Stick Fracture of Clavicle		

Date/ Day	8:00 AM – 9:50 AM	9:50AM – 10:10AM	10:10 AM – 11:00 AM	11:00 AM – 11:50 AM	11:50 AM - 12:20 PM	12:20 PM - 02:00PM	Home Assignment
01-03-2025 Saturday	**DISSECTION/ SGD** Humerus	Break	**BIOCHEMISTRY (LGIS)** Water & PH / Dr. Uzma Zafar (Even) Physico chemical aspects-I / Dr. Nayab (Odd)	**COMMUNTIY MEIDICNE (RESEARCH-IV)** Basis of Ehics in Medical Research / Dr. Rizwana Shahid (Odd) / Dr. Abdul Qudoos (Even)	Break	**Practical & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Applied Anatony of Scapula

Table No. 1 (Time: 12:20pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Sana Latif		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Rahat
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Almas
Thursday	**B**		**A**	Dr. Almas		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Sana Latif
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Romessa

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nazia (Demonstrator Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah ali Shah (Demonstrator of Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator of Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Qurat Ul Ain (Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First FloorAnatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 60	A1: Roll No (1 – 15) A2: Roll No (16 – 30) A3: Roll No (31 – 45) A4: Roll No (46 – 60)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
B	61-120	B1: Roll No (61 – 75) B2: Roll No (76 – 90) B3: Roll No (91 – 105) B4: Roll No (06 – 120)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
C	121-180	C1: Roll No (121 – 135) C2: Roll No (136 – 150) C3: Roll No (151 – 165) C4: Roll No (166 – 180)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 04
D	181- 240	D1: Roll No (181 – 195) D2: Roll No (196 - 210) D3: Roll No (211 – 225) D4: Roll No (226 – 240)	Dr. Qurat ul Ain (Senior. Demonstrator)	New Lecture Hall Complex 01
E	241- 300	E1: Roll No (241 – 255) E2: Roll No (256 – 270) E3: Roll No (271 – 285) E4: Roll No (286 – 300)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
F	301- onwards	F1: Roll No (301 – 315) F2: Roll No 316 – 330) F3: Roll No 331 – 345) F4: Roll No (346 – onwards)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Time Table for Foundation Module - I (Third Week)
(03-03-2025 to 08-03-2025)

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

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:10am	11:10am-11:50am	11:50am – 01:00pm	Home Assignments
03-03-2025 Monday	**DISSECTION / SGD** Anterior Axioappendicular Muscles	**SUPERVISED SDL** Anterior Axioappendicular Neurovascular Organization	**Break**	**MEDICINE** Introduction to Medicine nd History of Medicine Dr. Saleha Imran (Odd) / Dr. Ayesha Habib (Even)	**BIOCHEMISTRY LGIS** Physico chemical aspects-I / Water & PH Dr. Nayab (Even) / Dr. Uzma Zafar (Odd)	**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Intracellular communication
04-03-2025 Tuesday	**DISSECTION / SGD** Posterior Axioappendicular muscles	**SUPERVISED SDL** Posterior Axioappendicular Neurovascular Organization		**ANATOMY (LGIS)** Histology / Embryology Types of epithelium / Gametogenesis Spermatogenesis Asso. Prof Dr. Mohtashim(Even) / Prof. Dr. Ayesha /Prof. Dr. Saima (Odd)	**PHYSIOLOGY (LGIS)** Cell organelles & cell function - II / Homeostasis Control System- I (Negative Feedback System, Dr. Faizania Shabir (Even) / Prof. Dr. Samia Sarwar /Dr. Uzma (Odd)	**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Receptors &signal transduction
05-03-2025 Wednesday	**BIOCHEMISTRY (LGIS)** Physico chemical aspects-II & Physico chemical aspects-III / Water & PH II / Cancer Dr. Nayab (Even) / Dr. Uzma Zafar(Odd)	**PATHOLOGY LGIS** Pigments Dr Sara Rafi (Even) / Dr Rabbiya Khaalid (Odd)		**ANATOMY LGIS** Embryology / Histology Gametogenesis Spermatogenesis / Types of Epithelium Prof. Dr. Ayesha /Prof. Dr. Saima (Even) / Asso. Prof Dr. Mohtashim (Even)	**PHYSIOLOGY (LGIS)** Homeostasis Control System- I (Negative Feedback System, Concept of Error and Gain) / Cell organelles& cell function - II Prof. Dr. Samia Sarwar /Dr. Uzma (Even) / Dr. Faizania Shabir (Odd)	**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Clinical Disease related to Physicochemical aspects (Osmosis, Osmotic Pressure)
06-03-2025 Thursday	**PEADS** Medical genetic & dysmorphology Dr. Muhammad Asim	**BIOCHEMISTRY** Water & PH II / Cancer / Physico chemical aspects-II & Physico chemical aspects-III Dr. Uzma Zafar (Even) / Dr. Nayab (Odd)		**ANATOMY LGIS** Embryology / Histology Gametogenesis -Oogenesis) / Apical Cell Surface Prof. Dr. Ayesha (Odd) / Asso. Prof Dr. Mohtashim(Even)	**PHYSIOLOGY (LGIS)** Genetics, transcription & translation / Homeostasis Control System-II (positive feedback, and concept of feed forward, adaptive control and vicious cycle) Dr. Faizania Shabir (Even) / Prof. Dr. Samia Sarwar /Dr. Uzma (Odd)	**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Biochemical and Pathogienises of Cancer
07-03-2025 Friday	**Early Clinical Exposure (ECE)**						SDL Applied Anatony of Anterior axioappendicular muscles

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:10am	11:10am-11:50am	11:50am – 01:00pm	Home Assignments
08-03-2025 Saturday	**COMMUNTIY MEIDICNE (RESEARCH-V)** Basics of Ethics in Health Research (Research -V) Dr Mneeba Iqbal (Even) / Dr Rizwana (Odd)	**PBL 1 (SESSION-II)** PBL Team	**Break**	**ANATOMY (LGIS)** Histology / Embryology Specialization of Apical cell surface / Gametogenesis Oogenesis Asso. Prof. Dr Mohtashim (Even) / Prof. Dr. Ayesha (Odd)	**PHYSIOLOGY (LGIS)** Homeostasis Control System-II (positive feedback, and concept of feed forward, adaptive control and vicious cycle) / Genetics, transcription & translation Prof. Dr. Samia Sarwar /Dr. Uzma (Even) / Dr. Faizania Shabir (Odd)	**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Applied Anatony of Postior axioappendicular muscles **Mid Module Clinical Evaluation**

Table No. 1 (Time: 11:50am – 01:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	**Teacher Name**	**Batch**	**Teacher Name**		**Batch**	**Teacher Name**		**Batch**	**Teacher Name**	**Batch**	**Teacher Name**
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Sana Latif		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Rahat
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Almas
Thursday	**B**		**A**	Dr. Almas		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Sana Latif
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Romessa

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nazia (Demonstrator Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah ali Shah (Demonstrator of Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator of Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Qurat Ul Ain (Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 60	A1: Roll No (1 – 15) A2: Roll No (16 – 30) A3: Roll No (31 – 45) A4: Roll No (46 – 60)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
B	61-120	B1: Roll No (61 – 75) B2: Roll No (76 – 90) B3: Roll No (91 – 105) B4: Roll No (06 – 120)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
C	121-180	C1: Roll No (121 – 135) C2: Roll No (136 – 150) C3: Roll No (151 – 165) C4: Roll No (166 – 180)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 04
D	181- 240	D1: Roll No (181 – 195) D2: Roll No (196 - 210) D3: Roll No (211 – 225) D4: Roll No (226 – 240)	Dr. Qurat ul Ain (Senior. Demonstrator)	New Lecture Hall Complex 01
E	241- 300	E1: Roll No (241 – 255) E2: Roll No (256 – 270) E3: Roll No (271 – 285) E4: Roll No (286 – 300)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
F	301- onwards	F1: Roll No (301 – 315) F2: Roll No 316 – 330) F3: Roll No 331 – 345) F4: Roll No (346 – onwards)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Time Table for Foundation Module - I (Fourth Week)
(10-03-2025 to 15-03-2025)

Date/Day	8:00am-9:20am		9:20am – 10:10am		10:10am – 10:30am	10:30am-11:10am		11:10am-11:50am		11:50am – 01:00pm	Home Assignments
10-03-2025 Monday	**BIOCHEMISTRY (LGIS)**		**PATHOLOGY LGIS**		Break	**ANATOMY(LGIS)**		**PHYSIOLOGY (LGIS)**		**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Genetics, transcription & translation
	Introduction & Classification of Enzymes	Nucleic Acid Chemistry-I	Free Radicals/ Reactive Oxygen Species (ROS).	Free Radicals/ Reactive Oxygen Species (ROS).		Embryology	Histology	Cell membrane ion channels, transport across cell membrane	Structure of nucleus, ribosomes and cell division		
						Female Reproductive Cycles	Intra cellular junctions & adhesions				
	Dr. Raja Khalid (Even)	Dr. Uzma Zafar (Odd)	Dr Sara Rafi (Even)	Dr Rabbiya Khaalid (Odd)		Prof. Dr. Ayesha (Even)	Asso. Prof. Dr. Arsalan (Odd)	Dr. Faizania Shabir (Even)	Dr. Uzma (Odd)		
11-03-2025 Tuesday	**PATHOLOGY (LGIS)**		**BIOCHEMISTRY (LGIS)**			**ANATOMY LGIS**		**PHYSIOLOGY (LGIS)**		**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Structure of nucleus ribosome's & cell division
	Irreversible injury / Necrosis & Apoptosis		Nucleic Acid Chemistry-II	Properties / Factors of Enzymes		Histology	Embryology	Structure of nucleus, ribosomes and cell division	Cell membrane ion channels, transport across cell membrane		
						Intercellular junctions and adhesions	Female Reproductive Cycles				
	Dr Sara Rafi (Odd)	Dr Rabbiya Khaalid (Even)	Dr. Uzma Zafar (Even)	Dr. Raja Khalid (Odd)		Asso. Prof. Dr. Arsalan (Even)	Prof. Dr. Ayesha (Odd)	Dr. Uzma (Even)	Dr. Faizania Shabir (Odd)		
12-03-2025 Wednesday	**DISSECTION / SGD**		**PBL 2 (SESSION-I)**			**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Nucliotide Derivatives and their importance
	Axilla		PBL Team			Nucleic Acid Chemistry-I	Introduction & Classification of Enzymes	Transport across cell membrane, Osmosis	Cellular control mechanism, cell cycle programmed cell death/ apoptosis		
						Dr. Uzma Zafar (Even)	Dr. Khalid (Odd)	Dr. Faizania Shabir (Even)	Dr. Uzma (Odd)		
13-03-2025 Thursday	**DISSECTION / SGD**		**BIOCHEMISTRY (LGIS)**			**PBL 2 (SESSION -II)**		**PHYSIOLOGY (LGIS)**		**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Causes and Repair of DNA Damage
	Axilla		Properties / Factors of Enzymes	Nucleic Acid Chemistry-II		PBL Team		Cellular control mechanism, cell cycle programmed cell death/ apoptosis	Transport across cell membrane, Osmosis		
			Dr. Raja Khalid (Even)	Dr. Uzma (Odd)				Dr. Uzma (Even)	Dr. Faizania Shabir (Odd)		
Date/ Day	**8:00 AM – 9:00 AM**		**9:00 AM – 10:00 AM**			**10:00 AM – 11:00 AM**		**11:00 AM – 12:00 PM**			
14-03-2025 Friday	**GYNAE & OBS**		**BIOCHEMISTRY (LGIS)**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		SDL Applied Anatony of Axilla	
	Infertility		MM Equation, Coenzymes, Co Factors	Replication		Embryology	Histology	Active Transport I	Active Transport II		
						Ovulation & Fertilization	Glands				
	Dr. Saima Shoaib (Even)	Dr Sadia Bano (Odd)	Dr. Uzma Zafar (Even)	Dr. Aneela (Odd)		Prof. Dr Ayesha (Even)	Asso. Prof. Dr Muhtashim (Odd)	Dr. Faizania Shabir (Even)	Dr. Sheena (Odd)		

Date/Day	8:00am-10:10am		10:10am – 10:30am	10:30am-11:10am		11:10am-11:50am		11:50am – 01:00pm	Home Assignments
15-03-2025 Saturday	**DISSECTION / SGD**		Break	**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Practical &CBL** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Applied Anatony of Brachial plexus
	Brachial plexus			Replication	MM Equation, Coenzymes, Co Factors	Active Transport II	Active Transport I		
				Dr. Aneela (Even)	Dr. Raja Khalid (Odd)	Dr. Sheena (Even)	Dr. Faizania Shabir (Odd)		

Table No. 1 (Time: 11:50am – 01:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Sana Latif		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Rahat
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Almas
Thursday	**B**		**A**	Dr. Almas		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Sana Latif
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Romessa

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nazia (Demonstrator Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah ali Shah (Demonstrator of Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator of Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Qurat Ul Ain (Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 60	A1: Roll No (1 – 15) A2: Roll No (16 – 30) A3: Roll No (31 – 45) A4: Roll No (46 – 60)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
B	61-120	B1: Roll No (61 – 75) B2: Roll No (76 – 90) B3: Roll No (91 – 105) B4: Roll No (06 – 120)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
C	121-180	C1: Roll No (121 – 135) C2: Roll No (136 – 150) C3: Roll No (151 – 165) C4: Roll No (166 – 180)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 04
D	181- 240	D1: Roll No (181 – 195) D2: Roll No (196 - 210) D3: Roll No (211 – 225) D4: Roll No (226 – 240)	Dr. Qurat ul Ain (Senior. Demonstrator)	New Lecture Hall Complex 01
E	241- 300	E1: Roll No (241 – 255) E2: Roll No (256 – 270) E3: Roll No (271 – 285) E4: Roll No (286 – 300)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
F	301- onwards	F1: Roll No (301 – 315) F2: Roll No 316 – 330) F3: Roll No 331 – 345) F4: Roll No (346 – onwards)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Time Table for Foundation Module - I (Fifth Week)
(17-03-2025 to 22-03-2025)

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:10am		11:10am-11:50am		11:50am – 01:00pm	Home Assignments
17-03-2025 Monday	**DISSECTION / CBL**		Break	**ANATOMY (LGIS)**		**BIOCHEMISTRY (LGIS)**		**Practical & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Cell membrane
	Brachial plexus injuries and winging Of Scapula			Embryology	Histology	Transcription	Regulation & Inhibition of Enzyme Activity		
				Ovulation and fertilization	Glands				
				Prof. Dr. Ayesha (Even)	Asso. Prof. Dr. Mohtashim (Odd)	Dr. Aneela (Even)	Dr. Raja Khalid (Odd)		
18-03-2025 Tuesday	**DISSECTION**			**BIOCHEMISTRY (LGIS)**		**SDL**		**Practical) & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Physiology Cell organelles
	Breast			Regulation & Inhibition of Enzyme Activity	Transcription				
				Dr. Raja Khalid (Even)	Dr. Aneela (Odd)				
19-03-2025 Wednesday	**BIOCHEMISTRY (LGIS)**		**PATHOLOGY (LGIS)**	**MEDICINE(LGIS)**		**DISSECTION / SGD**		**Practical & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Clinical Applications of PCR & Recombinant DNA Technology
	Translation	Mutation	Genetic disorder	Chromosomal Abrassions		Dissection/spotting			
	Dr. Aneela (Even)	Dr. Kashif Rauf (Odd)	Dr Rabbiya Khaalid (Even) / Dr Sara Rafi (Odd)	Dr. Madiha Nazr (Odd)	Dr. Unazua (Even)				
20-03-2025 Thursday	**DISSECTION / SGD**			**ANATOMY (LGIS)**		**BIOCHEMISTRY (LGIS)**		**Practical & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Biochemistry Diagonistic role of Enzymes
	Sternoclavicular and acromioclavicular joints			Histology	Embryology	Mutation	Translation		
				Histology & Development of Mammary Gland	Cleavage and formation of blastocyst				
				Asso. Dr. Mohatashim Hina (Even)	Prof. Dr. Ayesha Yousaf (Odd)	Dr. Kashif Rauf (Even)	Dr. Aneela (Odd)		

Date/ Day	8:00 AM – 10:00 AM	10:00 AM – 11:00 AM		11:00 AM – 12:00 PM		11:50am – 01:00pm
21-03-2025 Friday	**DISSECTION / SGD**	**BIOCHEMISTRY (LGIS)**		**SURGERY (LGIS)**		SDL Applied Anatony of Brachial plexus injuries (Refered to table no. 1)
	Radiograph/Cross Section of axioapendicular region	Recombinant DNA/ PCR (Polymerase Chain Reaction)	Clinical Enzymology	CA Breast		
		Dr. Kashif Rauf (Even)	Dr. Raja Khalid / Dr. Aneela (Odd)	Dr. Hira (Odd)	Dr. Asad Amir (Even)	

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:10am		11:10am-11:50am		11:50am – 01:00pm	Home Assignments
22-03-2025 Saturday	**DISSECTION / SGD**		Break	**ANATOMY (LGIS)**		**BIOCHEMISTRY (LGIS)**		**Practical & SGD** Topics & Venue mentioned at the end (Refered to table no. 1)	SDL Applied Anatony of Breast **End Module Clinical Evaluation**
	Surface Anatomy of Axioapendicular Region			Histology	Embryology	Clinical Enzymology	Recombinant DNA/ PCR (Polymerase Chain Reaction)		
				Histology & Development of Mammary Gland	Cleavage and formation of blastocyst				
				Asso. Dr. Mohatashim Hina (Odd)	Prof. Dr. Ayesha (Odd)	Dr. Raja Khalid / Dr. Aneela (Even)	Dr. Kashif Rauf (Odd)		

Table No. 1 (Time: 11:50am – 01:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	**Teacher Name**	**Batch**	**Teacher Name**		**Batch**	**Teacher Name**		**Batch**	**Teacher Name**	**Batch**	**Teacher Name**
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Sana Latif		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Rahat
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Almas
Thursday	**B**		**A**	Dr. Almas		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Sana Latif
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Romessa

Topics for SGDs / CBL with Venue

- Physiology SGD – Cellular control mechanism, cell cycle, programmed cell death, Apoptosis Lecture Hall 5
- Biochemistry CBL – Genetics (PCR) - Lecture Hall 3
- Anatomy CBL - Brachial Plexus injuries and winging Of Scapula

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nazia (Demonstrator Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Farah ali Shah (Demonstrator of Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator of Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Qurat Ul Ain (Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 60	A1: Roll No (1 – 15) A2: Roll No (16 – 30) A3: Roll No (31 – 45) A4: Roll No (46 – 60)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
B	61-120	B1: Roll No (61 – 75) B2: Roll No (76 – 90) B3: Roll No (91 – 105) B4: Roll No (06 – 120)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
C	121-180	C1: Roll No (121 – 135) C2: Roll No (136 – 150) C3: Roll No (151 – 165) C4: Roll No (166 – 180)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 04
D	181- 240	D1: Roll No (181 – 195) D2: Roll No (196 - 210) D3: Roll No (211 – 225) D4: Roll No (226 – 240)	Dr. Qurat ul Ain (Senior. Demonstrator)	New Lecture Hall Complex 01
E	241- 300	E1: Roll No (241 – 255) E2: Roll No (256 – 270) E3: Roll No (271 – 285) E4: Roll No (286 – 300)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
F	301- onwards	F1: Roll No (301 – 315) F2: Roll No 316 – 330) F3: Roll No 331 – 345) F4: Roll No (346 – onwards)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Tentative Schedule for LMS Based Weekly Online Assessments for First Year MBBS (Foundation Module - I) Batch 52

The Online Assessment for Foundation Module - I for First Year MBBS will be as per following schedule:

Class	Module	Day & Date	Time of Assessment	Focal person	Department Responsible
First Year MBBS	Foundation Module - I	Monday 03rd March, 2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 04th March, 2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 05th March, 2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry
		Monday 10th March, 2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 11th March, 2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 12th March, 2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry

Note: All dates are subject to change.

End of Foundation Module - I Assessment
(24-03-2025 to 29-03-2025)

Date / Days	Tentative Datesheet	Time
24-03-2025 Monday	Asssessment Week	
25-03-2025 Tuesday		
26-03-2025 Wednesday		
27-03-2025 Thursday		
28-03-2025 Friday		
29-03-2025 Saturday		

*All dates are subject to change.

*Details will be shared separately.

SECTION VII

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

Domains: C-Core Subject (70%) Levels C1-C2, HV- Horizontal & Vertical Integration (20%) Levels C2-C3, S- Spiral Integration (10%) Levels C2-C3																																		
End of Module Assessment	Subject	Theory (Cognitive) Assessment																					Practical (Skill & Attitude) Assessment											Grand Total	Total Time of Module Assessment
		MCQs					EMQs			SAQs					SEQs				Marks	Total Marks Theory	Total Time	AV OSPE					Time	AED Reflective Writing	OSVE			Total Practical Marks		
		C	HV	S	Total	Marks	C	Total	Marks	C	HV	S	Total	Marks	C	HV	S	Total				C	HV	S	Total	Marks			Viva	Copy	Total			
First Module	Anatomy	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
	Physiology	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
	Biochemistry	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
Formative- Weekly LMS Based Assessment of 30 MCQs (10 MCQs per Subject)																																		
End of Module Assessment	Subject	Theory (Cognitive) Assessment																					Practical (Skill & Attitude) Assessment											Grand Total	Total Time of Module Assessment
		MCQs					EMQs			SAQs					SEQs				Marks	Total Marks Theory	Total Time	AV OSPE					Time	AED Reflective Writing	OSVE			Total Practical Marks		
		C	HV	S	Total	Marks	C	Total	Marks	C	HV	S	Total	Marks	C	HV	S	Total				C	HV	S	Total	Marks			Viva	Copy	Total			
Second Module	Anatomy	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
	Physiology	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
	Biochemistry	19	4	2	25	25	1	1	5	3	1	1	5	25	3	1	1	5	45	100	2 HRS	7	2	1	10	50	50 min	15 min	45	5	50	100	200	6 HRS
Formative- Weekly LMS Based Assessmen tof 30 MCQs (10 MCQs per Subject)																																		

Block	Subjects	LMS Based Assessment					OSPE						Grand Total	Total Block Time
		MCQs					LabOSPE	IOSPE	COSPE	Total	Marks	Time		
		C	HV	S	Total	Time	C	HV	S					
BLOCK	Anatomy	21	6	3	30	30 min	14	4	2	20	60	6 HRS	90	10 HRS
	Physiology	21	6	3	30	30 min	14	4	2	20	60	6 HRS	90	10 HRS
	Biochemistry	21	6	3	30	30 min	14	4	2	20	60	6 HRS	90	10 HRS
50% Questions/OSPE Stations/Viva Stations will be from Foundation Module and 50% Questions will be from MSK-1 Module														
For Each assessment student will have to individually pass Theory and Practical components														

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

Marks per Item

MCQ=1	EMQ= 5	SAQ= 5	SEQ= 9	AVOSPE= 5		OSPE= 3
OSPE Time=1 Round of 40 Students =80 min						
3 Round of 40 Students =240 min						
OSVE=Time per student=5mins						

Annexure I

Templates for Theory Paper

- **MCQ, SEQ Paper, & EMQ**

Templates for AV OSPE

Templates for Structured Viva

Department of Anatomy, Physiology & Biochemistry
MCQs & EMQ Paper for _____ Module, First Year MBBS Batch 52
Date: 00-00-0000

Total Marks: 30 (MCQs: 25, EMQ: 5) Roll No. _____
Total Time: 30 Minutes Name. _____
Each MCQ carries 1 mark and EMQ carries 5 marks

Encircle the single best response

Q.#	Integrated & Clinically Oriented Assessment of the Subject Anatomy, Physiology & Biochemistry Section A: Core Knowledge of Anatomy / Physiology / Biochemistry (70%)	Level of Cognition
1.	Question …… a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C1
	Section – B: Integrations (30%)	
	Horizontal Integration Anatomy / Physiology / Biochemistry (5%)	
2.	**Horizontal Integration with Anatomy (2.5%)** Questions ……. a. …….. b. …….. c. …….. d. …….. e. …….. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C1
	Vertical Integration with Medicine / Surgery / Gynae Obs etc (15%)	
3.	Question ……. a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C3
	Spiral Integration (10%)	

Medical Bioethics		
4.	Question …… a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C2
Family Medicine		
5.	Question …… a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	

Rawalpindi Medical University Rawalpindi
Department of Anatomy, Physiology & Biochemistry
SEQ & SAQ Paper for _____ Module, _____ Year MBBS Batch _____
Date: 00-00-0000

Total Marks: 70
Each SAQ carries 5 marks
Each SEQ carries 9 marks

Time allowed: 1 hour & 30 minutes
Each SAQ: 5 minutes, SEQ: 10 minutes

Attempt all Questions

Integrated & Clinically Oriented Assessment of the Subject of Anatomy, Physiology & Biochemistry					
Domain		**Percentage**			
• **Core Knowledge (CK) of Anatomy/Physiology Biochemistry**		**(70%)**			
• **Integration**		**(30%)**			
○ **Horizontal Integration (HI)**		**(05%)**			
○ **Vertical Integration (VI)**		**(15%)**			
○ **Spiral Integration (SI)**		**(10%)**			
Q.#	**Construct your Answers according to the given Scenarios and Questions**	**Domain**	**Marks**	**% Weightage**	**Level of Cognition**
Short Answer Questions (SAQs) Total Marks: 25 (Each SAQ carries marks)					
SAQ 1	A 55 years Male, known case of Coronary Artery Disease, presented to…… …….. …….. ……..	CK & VI	……..	…….	……
	a. ……. …….	CK	2	8%	C2
	b. ……. …….	CK	2	12%	C2
	c. ……. …….	CK	2	8%	C2

	d. …… ……	CK	2	12%	C2
	e. …… …… USMLE Question. References: Part a: Guyton & Hall 14th Edition page # 114 Part b: Guyton & Hall 14th Edition Page # 116	CK	1	8%	C2

Q.#	**Construct your Answers according to the given Scenarios and Questions**	**Domain**	**Marks**	**% Weightage**	**Level of Cognition**
Short Essay Question (SEQs) Total Marks: 45					
SEQ 1	A 55 years Male, known case of Coronary Artery Disease, presented to…… …….. …….. ……..	CK & VI	……..	…….	……
	a. …… ……	HI with Anatomy	2	6.66%	C2
	b. …… ……	CK	3	6.66%	C2
	c. …… ……	CK	2	6.66%	C2
	d. …… ……	CK	1	6.66%	C2
	e. …… …… USMLE Style Question. References: • Part a: Guyton & Hall 14th Edition page # 101 • Part b: Guyton & Hall 14th Edition Page # 103 • Part c: Guyton & Hall 14th Edition Page # 103	CK	1	6.66%	C2

Rawalpindi Medical University Rawalpindi
Department of Anatomy / Physiology / Biochemistry
Clinically Oriented Audio Visal Objective Structured Practical Examination (OSPE)
_____ Module 2025

_____ Year MBBS (Batch _____)

Day: _____

Date: _____

10 AV OSPE Slides

Time Allowed: 50 minutes

05 minutes for each slide

Chairperson
Department of _____
Rawalpindi Medical University, Rawalpindi

Additional Director Assessment
Rawalpindi Medical University
Rawalpindi

Director DME
Rawalpindi Medical University
Rawalpindi

Vice Chancellor
Rawalpindi Medical University
Rawalpindi

Slide 1

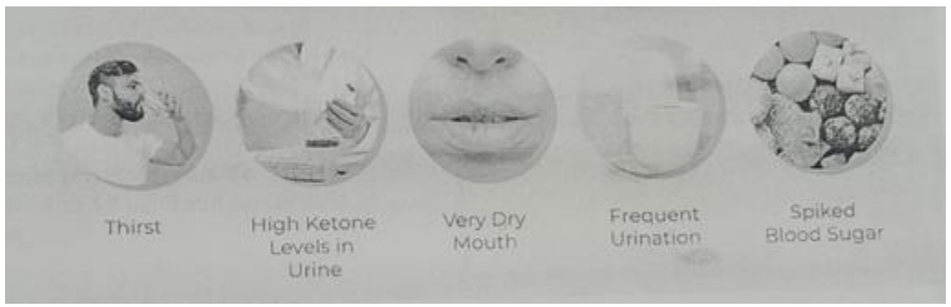
Core Knowledge with Horizontal / Vertical / Spiral Integration

Topic:

Teaching Strategy:

Requirements: Answer sheet, Pen

Objective: _____



1. ……. (01)
2. ……. (01)
3. ……. (01)
4. ……. (01)
5. ……. (01)

Slide 1

Key for Examiner

1. ……
2. ……
3. ……
4. ……..
5. ……..

Department of Anatomy

Foundation Module - I (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)	Professionalism (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 - I (Structured Viva)

MODULE: _____ **DATE:** _____ **TEACHER NAME:** _____ **SIGNATURE**_____

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

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

Department of Biochemistry

Foundation Module - I (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)**

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

Rawalpindi Medical University
1st Year MBBS Model MCQS (USMLE Format)

1.	A 45-year-old woman presents to the clinic with a palpable lump in her left breast. On physical examination, there is no skin erythema or dimpling, but there is noticeable enlargement of the axillary lymph nodes on the left side. A biopsy of the breast lump reveals invasive ductal carcinoma. The surgeon is concerned about the possible spread of cancer to the lymph nodes. Which of the following is the most likely primary route of lymphatic drainage for this patient's breast cancer? A) Left subclavian lymph nodes B) Internal thoracic (mammary) lymph nodes C) Left axillary lymph nodes D) Right axillary lymph nodes E) Left supraclavicular lymph nodes	Anatomy
2.	A 52-year-old male presents with muscle weakness, fatigue, and poor exercise tolerance. His laboratory results reveal elevated lactate levels, suggesting a mitochondrial dysfunction. The patient is diagnosed with a disorder affecting the mitochondrial respiratory chain. Which part of the mitochondria is primarily responsible for housing the enzymes involved in oxidative phosphorylation? A) Cristae B) Mitochondrial matrix C) Outer membrane D) Inner membrane E) Outer chamber	Physiology
3.	A 25-year-old female with a history of genetic disorders presents with symptoms of muscle weakness and fatigue. Her genetic counselor explains that a defect in protein synthesis could be contributing to her condition. The counselor explains that one of the RNA molecules plays a crucial role in delivering amino acids to the ribosome for protein assembly. Which of the following is the primary function of transfer RNA (tRNA) in this process? A) Transfers information from DNA to ribosomes B) Transfers information from mRNA to cytosol C) Transfers amino acids from cytosol to ribosomes D) Transfers proteins from cytosol to ribosomes E) Transfers proteins from ribosomes to the Golgi apparatus	Biochemistry
4.	A 60-year-old patient is diagnosed with a chronic condition and given several treatment options, each with varying degrees of risk and benefit. The patient carefully considers the options and decides to pursue a less invasive treatment, despite the doctor's recommendation for a more aggressive approach. The doctor provides all the necessary information, ensuring the patient understands the potential outcomes and respects their decision. A) Beneficence B) Justice C) Autonomy D) Non-maleficence E) Paternalism	Spiral Courses Bioehtics

Rawalpindi Medical University
1st Year MBBS Model EMQ

1. A 35-year-old male presents to the emergency department following a fall onto an outstretched arm during a football match. He reports pain in the upper arm, and upon examination, he is unable to extend his wrist or fingers. There is localized tenderness and swelling over the mid-shaft of the humerus, and he has difficulty moving his arm. Upon further examination, he also has sensory loss on the dorsum of his hand. X-rays confirm a mid-shaft humeral fracture.

   Match the options (A to H) with the statements (1 to 8) given below:

   List of Options (A to H):

   A) Radial nerve
   B) Median nerve
   C) Ulnar nerve
   D) Axillary nerve
   E) Pain localized to the shoulder
   F) Wrist drops
   G) Loss of sensation over the dorsum of the hand
   H) Weakness in elbow flexion

   Statements:

   1. This nerve is most commonly injured in a mid-shaft humerus fracture and is responsible for causing wrist drop.
   2. A common sign seen with this injury is localized pain and tenderness directly over the fracture site.
   3. Injury to this nerve can result in difficulty extending the fingers and wrist, leading to the inability to fully extend the hand.
   4. This nerve, when injured, can cause sensory loss over the dorsum of the hand and difficulty extending the wrist and fingers.
   5. Injury to this nerve might result in a loss of sensation over the lateral aspect of the shoulder and difficulty abducting the arm.
   6. This nerve injury may lead to weakness in elbow flexion and loss of sensation in the anterior forearm.
   7. Loss of sensation in the medial side of the hand and inability to flex the fingers are indicative of injury to this nerve.
   8. This nerve is not typically injured in a mid-shaft humerus fracture but can cause weakness in shoulder abduction when injured in other upper arm fractures.

   Answer Key:

   A) Radial nerve
   E) Pain over the fracture site
   F) Wrist drops
   G) Loss of sensation over the dorsum of the hand
   D) Axillary nerve
   B) Median nerve
   C) Ulnar nerve
   D) Axillary nerve

Rawalpindi Medical University
1st Year MBBS Model SEQs & SAQs (USMLE Format)

1. 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. What is the most likely diagnosis for a painless, firm, and adherent swelling in the breast with oedematous skin? (1) b. What is the clinical sign that describes the oedematous skin around the breast swelling, commonly seen in inflammatory breast cancer? (1) c. At what age is a woman most likely to present with breast cancer, as seen in this 42-year-old patient? (1) d. What is the significance of the swelling being adherent to the chest wall in the context of breast cancer? (1) e. Which condition should be ruled out when a patient presents with painless breast swelling and skin oedema? (1)	Anatomy
2. A 40 years old male presented in medical emergency with complaints of severe headache, confusions and fatigue. On examination his blood pressure was 180/110? a. What is the most likely diagnosis for a 40-year-old male presenting with severe headache, confusion, fatigue, and high blood pressure (180/110)? b. What is the significance of the blood pressure reading of 180/110 in this patient? c. Which condition should be considered in a patient with severe headache and confusion, especially with elevated blood pressure? d. What is the potential risk associated with untreated blood pressure of 180/110? e. What is the first-line management for a patient presenting with hypertensive emergency, as suggested by this scenario?	Physiology
3. A biochemist studies an enzyme breaking down a carbohydrate. The enzyme stabilizes the transition state, forms a covalent bond with the substrate, requires metal ions, and facilitates proton transfer during the reaction. a. Which mechanism involves stabilizing the transition state more than the substrate? b. What does covalent catalysis entail in enzyme reactions? c. How do metal ions aid in the enzyme's catalytic activity? d. Why is proton transfer important in enzyme catalysis? e. What mechanism helps the enzyme facilitate the breakdown of the carbohydrate through proton transfer?	Biochemistry

Rawalpindi Medical University
1st Year MBBS Model AV OSPE

Slide 1 / Video

Core Knowledge with Horizontal / Vertical / Spiral Integration

Topic: Erbs Palsy

Teaching Strategy: Small Group Discussion

Requirements: Answer sheet, Pen

Objective: To Asses the Knowledge of Students Regaring Nerves Injuries in Upper Limb

1. Name the clinical condition shown in video / slide? (01)
2. What is the primary cause of this clinical condition? (01)
3. Which muscles are most commonly affected? (01)
4. Which clinical sign is often associated with this condition in newborns? (01)
5. What is the characteristic posture? (01)

Integrated Clinically Oriented Modular Curriculum for First Year MBBS

MSK-I Module Time Table

First Year MBBS

Session 2024 – 2025

Batch- 52

MSK - I Module Team

Module Name : MSK - I Module
Duration of module : 05 Weeks
Coordinator : Dr. Summiya Bashir
Co-coordinator : Dr. Ali Raza
Reviewed by : Module Committee

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

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

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

Discipline Wise Details of Modular Content

<table>
<tr><th colspan="6">Integration</th></tr>
<tr><th colspan="6">Themes</th></tr>
<tr><th>Block</th><th>Module</th><th>General Anatomy</th><th>Embryology</th><th>Histology</th><th>Gross Anatomy</th></tr>
<tr><td rowspan="13">I</td><td>• Anatomy</td><td>Skeletal System
• Bones
• Joints</td><td>General Embryology
Second Week of
Human Development till
Placenta & Fetal Membranes</td><td>General Histology
• Connective Tissue
• Cartilage
• Bone</td><td>Shoulder joint till Hand</td></tr>
<tr><td>• Biochemistry</td><td colspan="4">• Minerals, Vitamins (A, D, E, ascorbic acid, thiamin and niacin), Introduction & Classification of Amino Acids</td></tr>
<tr><td>• Physiology</td><td colspan="4">• NMJ, Introduction Concept of Motor Unit. Neuromuscular Transmission, Synthesis & Fate of Acetylcholine
• Drugs Acting On NMJ, Myasthenia Gravis, Lambart Eaton Syndrome
• Structure of Neurons. Classification of Neurons & Nerve Fibers
• Nernst Potential, RMP
• Recording & Propagation of Action Potential & Factors Effecting Nerve Conduction & Hyperpolarized State
• Stimulus & Response & Types of Stimuli, Stages of Action Potential</td></tr>
<tr><td colspan="5">Spiral Courses</td></tr>
<tr><td>• Research Club Activity (1 – 4)</td><td colspan="4">• Synopsis Writing
• Questionnaire Development
• Hands on session on Data Analysis
• Manuscript Writing Workshop</td></tr>
<tr><td>• Family Medicine</td><td colspan="4">• Approach to a patient with Body aches</td></tr>
<tr><td>• Behavioral Sciences</td><td colspan="4">• Healthcare models and their clinical application
• Relevance of ethics in life of a doctor</td></tr>
<tr><td colspan="5">Vertical Integration</td></tr>
<tr><td>• Surgery/ Ortho</td><td colspan="4">• Shoulder Dislocation
• Tennis elbow, Fracture of olecranon, Radius and Ulna (Surgery)</td></tr>
<tr><td>• Community Medicine</td><td colspan="4">• Musculoskeletal Disorders
• Prevention of Accidents</td></tr>
<tr><td>• Medicine</td><td colspan="4">• Osteoporosis
• Osteomalacia, Rickets & Polyarthritis</td></tr>
<tr><td>• Pharmacology</td><td colspan="4">• Drugs Acting On Neuromuscular Junction
• Tennis elbow, fracture of olecranon, radius and ulna</td></tr>
<tr><td></td><td>• Obstetrics & Gynecology</td><td colspan="4">• Bony PELVIS Fetal Skull & Mechanism of Labor</td></tr>
</table>

Categorization of Modular Content of Anatomy:

Category A*	Category B**		Category C				
General Embryology	**General Histology**	**General Anatomy**	**Demonstrations / SGD**	**CBL**	**Practical's**	**SDL**	**SSDL**
• Second week of Human Development • Gastrulation (3rd week) • Notochord Formation (3rd week) • Neurulation & differentiation of Somites (3rd week) • Early development of CVS & highlights of 4th-8th week • Folding of Embryo • Fetal period • Placenta • Fetal Membranes & Multiple pregnancy	• Connective Tissue I • Connective Tissue II • Connective Tissue III • Cartilage • Bones	• Bone I • Bone II • Joint I • Joint II	• **Gross Anatomy:** • Shoulder joint • -Flexor Compartment & Neurovascular organization of Arm • Extensor compartment & Neurovascular organization of Arm • Bones of Forearm • Flexor compartment of forearm • Extensor compartment of forearm • Neurovascular organization of Forearm • Elbow joint • Proximal & Distal radioulnar joints • Bones of Hand • Wrist joint • Dorsum of Hand, Flexor & Extensor retinaculum • Palm of Hand & Facial spaces • Neurovascular organization of Hand • Surface Marking	• Shoulder Dislocation • Wrist Drop	• Histology of connective Tissue I • Connective tissue II • Cartilage • Bone	• Shoulder Dislocation • Biceps Tendinitis, Popeye's Arm • Wrist Drop • Fracture of Ulna • Colle's Fracture/ Smith's Fracture • Golfer's Elbow • Tennis Elbow • Cubital Tunnel Syndrome • Elbow Dislocation • Proximal and distal radioulnar dislocation • Avascular Necrosis of Scaphoid Bone • Wrist dislocation • Vascular insufficiency at wrist joint • Carpal Tunnel • Dupuytren's Contracture • Hand infections	• Proximal & distal radioulnar joint • Bones of hand

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of 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	02
3.	Assistant professor of Anatomy department (AP)	02
4.	Demonstrators of Anatomy department	04

Contact Hours (Faculty)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	2 * 19= 38 hours
2.	Small Group Discussions (SGD)	1 * 2 + 2*12=26 hours
3.	Case Based Learning (CBL)	2* 2 = 4 hours
5.	Practical / Skill Lab	1.5 * 20 = 30 hours

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	1 * 19 = 19 hours
2.	Small Group Discussions (SGD)	1.5 * 18 + 2*1=29 hours
3.	Case Based Learning (CBL)	2* 2 = 4 hours
4.	SSDL	3*2 = 6 hours
5.	Practical / Skill Lab	1.5 * 4 = 6 hours
6.	Self-Directed Learning (SDL)	1 * 7= 7 hours

Categorization of Modular Content of Physiology:

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

	Refractory period, types of action potential. Graded potential comparison With action potential **(By Dr Shazia)**					
	Recording & propagation of action potential & factors effect ingnerve Conduction & hyper polarized state **(By Dr Fareed)**					

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Physiology

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

Contact Hours (Faculty) & Contact Hours (Students)

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

Categorization of Modular Content of Biochemistry:

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

Teaching Staff / Human Resource of Biochemistry

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

Contact Hours (Faculty) & Contact Hours (Students)

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

Time Table for Musculoskeletal-I Module (First Week)
(14-04-2025 To 19-04-2025)

Day & Date	8:00am – 09:00am		09:00am – 10:00am		10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
14-04-2025 Monday	**BIOCHEMISTRY (LGIS)**		**PHARMACOLOGY**		Break	**ANATOMY (LGIS)**		**PHYSIOLOGY(LGIS)**		Break	Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Physiology Structure of Neurons & Classification of Neurons
	Mineral introduction/ classification/ calcium & Phosphate	Definition and classification of vitamins vitamin A & E	Drugs Acting On Neuromuscular Junction			**Embryology**	**Histology**	Structure of neurons Classification of neurons and nerve fibers	Nernst Potential & RMP			
	Dr. Aneela / Dr. Uzma (Even)	Dr. Almas (Odd)	Dt. Uzma Umer (Even)	Dr. Saba Sarfaraz (Odd)		2nd Week of Development	Connective tissue (CT) – I (Cells of CT)	Dr. Sheena (Even)	Dr. Shazia (Odd)			
						Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Even)	Asso. Prof. Dr. Mohtasham (Odd)					
15-04-2025 Tuesday	**CBL**					**RESEARCH CLUB ACTIVITY 1**		**PHYSIOLOGY (LGIS)**			Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Physiology Nernst Potential & RMP
	Shoulder Joint (Shoulder Dislocation)					Synopsis Writing		Nernst Potential & RMP	Structure of neurons Classification of neurons and nerve fibers			
						Dr. Rizwana Shahid (Even)	Dr. Farah Pervaiz (Odd)	Dr. Shazia (Even)	Dr. Sheena (Odd)			
16-04-2025 Wednesday	**SGD/ DISSECTION**					**ANATOMY (LGIS)**		**BEHAVIORAL SCIENCES**			Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Biochemistry Hypercalcemia
	Flexor compartment & Neurovascular organization of arm					**Histology**	**Embryology**	Healthcare models and their clinical application				
						Connective tissue-I (Cells of CT)	2nd Week of Human Development	Dr. Azeem Rao (Odd)	Dr. Sadia Yasir (Even)			
						Asso. Prof. Dr. Mohtasham (Even)	Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Odd)					
17-04-2025 Thursday	CBL					**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Biochemistry Hypocalcemia
	Extensor compartment & Neurovascular organization of arm (Wrist Drop)					General Anatomy	Histology	Properties of nerve Fibers	Measurement & effect of electrolytes on RMP			
						Bone-I (General Features)	Connective tissue-II (Extracellular Matrix & Types of CT)					
						Assit. Prof. Dr. Sumyyia (Even)	Asso. Prof. Dr. Mohtasham (Odd)	Dr. Fahd Anwar (Even)	Dr. Shazia (Odd)			

Day & Date	8:00am – 09:00am		09:00am – 10:00am		10:00am – 11:00am		11:00am – 12:00pm			
18-04-2025 Friday	**MEDICINE**		**BIOCHEMISTRY (LGIS)**		**ANATOMY (LGIS)**		**FAMILY MEDICINE**		SDL Anatomy Shoulder Dislocation	
	Osteoporosis		Definition & classification of vitamins, Vitamin A, Vitamin E	Mineral introduction/ classification/ calcium & Phosphate	**Histology**	**Embryology**	Breaking Down Barriers: Effective Pain Management Strategies in Family Medicine			
					Connective Tissue – II (Extracellular Matrix & Types of CT)	3rd week of development (Gastrulation)				
	Dr Saima (Even)	Dr Javeria (Odd)	Dr. Almas (Even)	Dr. Aneela / Dr. Uzma (Odd)	Asso. Prof. Dr. Mohtasham (Even)	Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Odd)	Dr Sana Latif (Even)	Dr. Sidra Hamid (Odd)		

Day & Date	8:00am – 09:00am		09:00am – 10:00am		10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
19-04-2025 Saturday	**SGD/ DISSECTION**				Break	**ANATOMY (LGIS)**		**PHYSIOLOGY(LGIS)**		Break	Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Anatomy Biceps Tendinitis, Popeye's Arm
	Dissection & Spotting					**Embryology**	**General Anatomy**	Measurement & effect of electrolytes on RMP	Properties of nerve Fibers			
						3rd week of development (Gastrulation)	Bone-I (General Features)					
						Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Even)	Assit. Prof. Dr. Sumyyia (Odd)	Dr. Shazia (Even)	Dr. Fahd Anwar (Odd)			

Table No. 1 (Time: 12:30pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Sana Latif		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Rahat
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Almas
Thursday	**B**		**A**	Dr. Almas		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Sana Latif
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Romessa

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Senior Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nabiha (PGT Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Maaria (PGT Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 70	A1: Roll No (1 – 17) A2: Roll No (18 – 34) A3: Roll No (35 – 51) A4: Roll No (52 – 70)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
B	71-140	B1: Roll No (71 – 87) B2: Roll No (88 – 104) B3: Roll No (105 – 121) B4: Roll No (122 – 140)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
C	141-210	C1: Roll No (141 – 157) C2: Roll No (158 – 174) C3: Roll No (175 – 191) C4: Roll No (192 – 210)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
D	211- 280	D1: Roll No (211 – 227) D2: Roll No (228 - 244) D3: Roll No (245 – 261) D4: Roll No (262 – 280)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
E	281- onwards	E1: Roll No (281 – 297) E2: Roll No (298 – 314) E3: Roll No (315 – 331) E4: Roll No (332 – onwards)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 01 / Anatomy Museum
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Time Table for Musculoskeletal-I Module Second Week
(21-04-2025 to 26-04-2025)

Date/ Day	8:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
21-04-2025 Monday	**SGD / DISSECTION**	Break	**ANATOMY (LGIS)**		**RESEARCH CLUB ACTIVITY 2**		Break	Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Physiology Resting Membrane Potential
	Bones of forearm (Ulna & Radius) Batches, Teachers & Venue		**General Anatomy**	**Embryology**	Questionnaire Development				
			Bone-II (Classification & Blood Supply)	3rd week (Notochord formation & Differentiation of Somites)					
			Assit. Prof. Dr. Sumyyia (Even)	Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Odd)	Dr. Farah Pervaiz (Odd)	Dr. Abdul Qudoos (Even)			
22-04-2025 Tuesday	**SGD / DISSECTION**		**ANATOMY (LGIS)**		**PHYSIOLOGY(LGIS)**			Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Physiology Action Potential
	Flexor compartment & Neurovascular organization of forearm Batches, Teachers & Venue		Embryology	General Anatomy	Concept of Degeneration and regeneration	Stimulus & Response &Type of stimuli. Stages of action potential			
			3rd week (Notochord formation & Differentiation of Somites)	Bone-II (Classification & Blood Supply)					
			Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Even)	Assit. Prof. Dr. Sumyyia Odd)	Dr. Fahd (Even)	Dr. Fareed (Odd)			
23-04-2025 Wednesday	**SGD / DISSECTION**		**ANATOMY (LGIS)**		**PHYSIOLOGY(LGIS)**			Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Biochemistry Wilson's Disease
	Extensor compartment & Neurovascular organization of forearm		Histology	Embryology	Stimulus & Response &Type of stimuli. Stages of action potential	Concept of Degeneration and regeneration			
			Connective Tissue-III (Types of CT)	3rd week (Neurulation)					
			Ass. Prof. Dr. Mohtasham (Even)	Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Odd)	Dr. Fareed (Even)	Dr. Fahd (Odd)			
24-04-2025 Thursday	**SGD / DISSECTION**		**ANATOMY (LGIS)**		**BIOCHEMISTRY LGIS**			Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Biochemistry Clinical Role of Fluoride, Magnesium & Sulphur , Zinc, Selenium, Iodine, Manganese
	Elbow joint Batches, Teachers & Venue		Embryology	Histology	Fluoride, Magnesium & Sulphur Copper, Zinc, Selenium, Iodine, Manganese	Vitamin D			
			3rd week (Neurulation)	Connective Tissue-III (Types of CT)					
			Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Even)	Ass. Prof. Dr. Mohtasham (Odd)	Dr. Uzma (Even)	Dr. Aneela (Odd)			

Date/ Day	8:00am – 10:00am		10:00am – 11:00am		11:00am – 12:00pm	12:00pm – 2:00pm	Home Assignment
25-04-2025 Friday	**BEHAVIORAL SCIENCES**		**ANATOMY (LGIS)**		**PBL 1 (SESSION – I)**	SDL Anatomy Colle's Fracture/ Smith's Fracture	
	Relevance of ethics in life of a doctor		**Embryology**	**Histology**	PBL Team		
			4th-8th week of development & Early development of CVS	Cartilage			
	Dr. Mehboob Ali Shah (Odd)	Dr. Zona Tahir (Even)	Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Even)	Asso. Prof. Dr. Mohtasham (Odd)			

Date/ Day	8:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
26-04-2025 Saturday	**SGD/ DISSECTION**	Break	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		Break	Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Anatomy Golfer's Elbow & Tennis Elbow **Online SDL Evaluation)**
	Proximal & Distal Radioulnar joints		**Histology**	**Embryology**	Recording & propagation of action potential & factors effecting nerve conduction & hyperpolarized state	Refractory period, types of action potential. Graded potential comparison with action potential			
			Cartilage	4th-8th week of development & Early development of CVS					
			Asso. Prof. Dr. Mohtasham (Even)	Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Odd)	Dr. Fareed (Even)	Dr Shazia (Odd)			

Table No. 1 (Time: 12:30pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Sana Latif		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Rahat
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Almas
Thursday	**B**		**A**	Dr. Almas		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Sana Latif
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Romessa

Topics for SGDs / CBL with Venue

- Physiology CBL: Paresthesia's paresis (Physiology Lecture Hall 05)
- Biochemistry CBL: Night Blindness (Venue: Lecture Hall No 2)

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Senior Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nabiha (PGT Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Maaria (PGT Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 70	A1: Roll No (1 – 17) A2: Roll No (18 – 34) A3: Roll No (35 – 51) A4: Roll No (52 – 70)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
B	71-140	B1: Roll No (71 – 87) B2: Roll No (88 – 104) B3: Roll No (105 – 121) B4: Roll No (122 – 140)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
C	141-210	C1: Roll No (141 – 157) C2: Roll No (158 – 174) C3: Roll No (175 – 191) C4: Roll No (192 – 210)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
D	211- 280	D1: Roll No (211 – 227) D2: Roll No (228 - 244) D3: Roll No (245 – 261) D4: Roll No (262 – 280)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
E	281- onwards	E1: Roll No (281 – 297) E2: Roll No (298 – 314) E3: Roll No (315 – 331) E4: Roll No (332 – onwards)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 01 / Anatomy Museum
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Student Sports Week	**28th April – 03rd May 2025**

Time Table for Musculoskeletal-I Module Third Week
(05-05-2025 to 10-05-2025)

Day & Date	8:00am – 09:00am	09:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
05-05-2025 Monday	**RESEARCH CLUB ACTIVITY 3** Manuscript Writing Workshop Dr. Farah Pervaiz (Even) / Dr. Rizwana Shahid (Odd)	**PBL 1 (SESSION-II)** PBL Team	Break	**ANATOMY (LGIS)** Histology: Bone I (Cells & types) — Asso. Prof. Dr. Mohtasham (Even) Embryology: Folding of Embryo — Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Odd)	**PHYSIOLOGY (LGIS)** Refractory period, types of action potential. Graded potential comparison with action potential — Dr Shazia (Even) NMJ, Introduction concept of motor unit. Neuro muscular transmission, synthesis & fate of acetylcholine — Prof. Dr. Samia Sarwar/ Dr Aneela (Odd)	Break	Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Physiology Concept of Degeneration and regeneration
06-05-2025 Tuesday	**PHARMACOLOGY** Drugs used in Myasthenia Gravis Dr. Zoefishan (Even) / Dr. Arsheen Arshad (Odd)	Physical Activity		**ANATOMY (LGIS)** Embryology: Folding of Embryo — Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Even) Histology: Bone I (Cells & types) — Asso. Prof. Dr. Mohtasham (Odd)	**PHYSIOLOGY(LGIS)** NMJ, Introduction concept of motor unit. Neuro muscular transmission, synthesis & fate of acetylcholine — Prof. Dr. Samia Sarwar/ Dr Aneela (Even) Recording & propagation of action potential & factors effecting nerve conduction & Hyperpolarized state — Dr. Fareed (Odd)		Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Physiology Nernst Potential & RMP & Action Potential
07-05-2025 Wednesday	**SGD/ DISSECTION** Dissection & Spotting	**JOINT SESSION** Poliomyelitis Anatomy, Physiology, Peads, Family Medicine & Community Meidicine		**ANATOMY (LGIS)** Embryology: Fetal period — Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Even) Histology: Bone II (Ossification) — Asso. Prof. Dr. Mohtasham (Even)	**COMMUNITY MEDICINE** Musculoskeletal Disorders Dr. Farah Pervaiz (Odd) / Dr. Abdul Qudoos (Even)		Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Biochemistry Rickets
08-05-2025 Thursday	**SGD/ DISSECTION** Bones of Hand			**ANATOMY (LGIS)** Histology: Bone II (Ossification) — Asso. Prof. Dr. Mohtasham (Even) Embryology: Fetal period — Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Odd)	**PBL 2 (SESSION – I)** Muscle Weakness PBL Team		Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Biochemistry Deficiency manifestation of Vit A &

Day & Date	8:00am – 09:00am	09:00am – 10:00am	10:00am – 11:00am	11:00am – 12:00pm	
09-05-2025 Friday	**SGD / DISSECTION** Wrist joint	**BIOCHEMISTRY (LGIS)** Vitamin D — Dr. Aneela (Even) Fluoride, Magnesium & SulphurCopper, Zinc, Selenium, Iodine, Manganese — Dr. Uzma (Odd)	**ANATOMY LGIS** Embryology: Placenta — Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Odd) General Anatomy: Joints 1(types) — Assit. Prof. Dr. Tayyaba (Even)	**PHYSIOLOGY (LGIS)** SDL: Nernst Potential & RMP & Action Potential — Dr Jawad (Even) Drugs acting on NMJ, Myasthenia Gravis, Lambart Eaton Syndrome — Prof. Dr. Samia Sarwar/Dr Aneela (Odd)	SDL Anatomy Avascular Necrosis of Scaphoid Bone

Date/ Day	8:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
10-05-2025 Saturday	**SGD/ DISSECTION** Dorsum of Hand, Flexor & Extensor Retinacula	Break	**ANATOMY LGIS** General Anatomy: Joints I (Types) — Assit. Prof. Dr. Tayyaba (Even) Embryology: Placenta — Prof. Dr. Ayesha/Asso. Prof. Dr. Arsalan (Odd)	**PHYSIOLOGY LGIS** Drugs acting on NMJ, Myasthenia Gravis, Lambart Eaton Syndrome — Prof. Dr. Samia Sarwar /Dr Aneela (Even) SDL: Nernst Potential & RMP & Action Potential — Dr Jawad (Odd)	Break	Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Anatomy Wrist Dislocation **Mid Module Online Clinical Evaluation**

Table No. 1 (Time: 12:30pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Sana Latif		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Rahat
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Almas
Thursday	**B**		**A**	Dr. Almas		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Sana Latif
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Romessa

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Senior Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nabiha (PGT Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Maaria (PGT Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 70	A1: Roll No (1 – 17) A2: Roll No (18 – 34) A3: Roll No (35 – 51) A4: Roll No (52 – 70)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
B	71-140	B1: Roll No (71 – 87) B2: Roll No (88 – 104) B3: Roll No (105 – 121) B4: Roll No (122 – 140)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
C	141-210	C1: Roll No (141 – 157) C2: Roll No (158 – 174) C3: Roll No (175 – 191) C4: Roll No (192 – 210)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
D	211- 280	D1: Roll No (211 – 227) D2: Roll No (228 - 244) D3: Roll No (245 – 261) D4: Roll No (262 – 280)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
E	281- onwards	E1: Roll No (281 – 297) E2: Roll No (298 – 314) E3: Roll No (315 – 331) E4: Roll No (332 – onwards)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 01 / Anatomy Museum
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Time Table for Musculoskeletal-I Module Fourth Week
(12-05-2025 to 17-05-2025)

Day & Date	8:00am – 09:00am	09:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
12-05-2025 Monday	**DISSECTION**		Break	**BIOCHEMISTRY LGIS**		**PBL 2 (SESSION-II)**		Break	Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Physiology Properties of nerve fibers
	Dissection & Spotting			Classification & Structure of Amino Acids Isomerism	Vitamin C, Niacin & Thiamine	PBL Team				
				Dr. Rahat (Even)	Dr. Almas/ Dr Aneela (Odd)					
13-05-2025 Tuesday	**MEDICINE**		**SGD/ DISSECTION**	**ANATOMY LGIS**		**COMMUNITY MEDICINE**			Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Physiology Drugs acting on NMJ
	Osteomalacia, rickets Polyarthritis		Cross Sectional Anatomy	Embryology	General Anatomy	Prevention of Accidents				
	Dr. Sheryar (Even)	Dr Umer Daraz (Odd)		Fetal membranes & multiple pregnancy	Joints II					
				Prof. Dr. Ayesha (Even)	Assit. Prof. Dr. Tayyaba (Odd)	Dr Rizwana Shahid (Odd)	Dr. Abdul Qudoos (Even)			
14-05-2025 Wednesday	**SGD / DISSECTION**			**GYNAE & OBS**		**BIOCHEMISTRY (LGIS)**			Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Biochemistry Deficiency manifestation of Thiamin
	Palm of Hand & Facial spaces			Bony PELVIS Fetal Skull & Mechanism of Labor		Vitamin C, Niacin & Thiamine	Classification & Structure of Amino Acids Isomerism			
				Dr. Aqsa Ikraam (Even)	Dr. Shama Bashir (Odd)	Dr. Almas/Dr Aneela (Even)	Dr. Rahat (Odd)			
15-05-2025 Thursday	**SGD/ DISSECTION**			**SURGERY/ORTHO**		**ANATOMY LGIS**			Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Biochemistry Deficiency manifestation of Niacin
	Neurovascular Organization of Hand			Tennis elbow, Fracture of Olecranon, radius, ulna		General Anatomy	Embryology			
						Joints II	Fetal membranes & Multiple Pregnancy			
				Dr. Hassan (Even)	Dr. Rahman Rasool (Odd)	Prof. Dr. Ayesha (Odd)	Assit. Prof. Dr. Tayyaba (Even)			
16-05-2025 Friday	Early Clinical Exposure (ECE)									SDL Anatomy Carpal Tunnel Syndrome
17-05-2025 Saturday	**SGD / DISSECTION**		Break	**ANATOMY LGIS**		**SURGERY/ORTHO**		Break	Practical & Tutorial Venue & topic mentioned at the end (Referred to table no. 1)	SDL Anatomy Dupuytren's Contracture End of Module Online Clinical Evaluation
	Cutaneous Innervation & Dermatomes of upper limb, Force & weight transmission			Embryology	Embryology	Shoulder Dislocation				
				Teratogenesis	Teratogenesis					
				Prof. Dr. Ayesha (Even)	Prof. Dr. Saima (Odd)	Dr. Saad Riaz (Even)	Dr. Shahzad Anjum (Odd)			

Table No. 1 (Time: 12:30pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Sana Latif		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Rahat
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Almas
Thursday	**B**		**A**	Dr. Almas		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Sana Latif
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Romessa

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Senior Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nabiha (PGT Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Maaria (PGT Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 70	A1: Roll No (1 – 17) A2: Roll No (18 – 34) A3: Roll No (35 – 51) A4: Roll No (52 – 70)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
B	71-140	B1: Roll No (71 – 87) B2: Roll No (88 – 104) B3: Roll No (105 – 121) B4: Roll No (122 – 140)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
C	141-210	C1: Roll No (141 – 157) C2: Roll No (158 – 174) C3: Roll No (175 – 191) C4: Roll No (192 – 210)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
D	211- 280	D1: Roll No (211 – 227) D2: Roll No (228 - 244) D3: Roll No (245 – 261) D4: Roll No (262 – 280)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
E	281- onwards	E1: Roll No (281 – 297) E2: Roll No (298 – 314) E3: Roll No (315 – 331) E4: Roll No (332 – onwards)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 01 / Anatomy Museum
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Tentative Schedule for LMS Based Weekly Online Assessments for First Year MBBS (MSK-I Module - I) Batch 52

The Online Assessment for MSK-I Module for First Year MBBS will be as per following schedule:

Class	Module	Day & Date	Time of Assessment	Focal person	Department Responsible
First Year MBBS	MSK-I Module - I	Monday 21st April 2025	7:00 pm - 7:30pm	Prof. Dr. Ayesha Yousaf	Anatomy
		Tuesday 22nd April, 2025	7:00 pm - 7:30pm	Prof. Dr. Samia Sarwar	Physiology
		Wednesday 23rd April, 2025	7:00 pm - 7:30pm	Dr. Aneela Jamil	Biochemistry
		Monday 05th May, 2025	7:00 pm- 7:30pm	Prof. Dr. Ayesha Yousaf	Anatomy
		Tuesday 06th May, 2025	7:00 pm- 7:30pm	Prof. Dr. Samia Sarwar	Physiology
		Wednesday 07th May, 2025	7:00 pm - 7:30pm	Dr. Aneela Jamil	Biochemistry

*Note: All dates are subject to change.

Time Table for Musculoskeletal-I Module Fifth Week
(19-05-2025 to 28-05-2025)

Date & Day	Tentative Schedule
19-05-2025 Monday	Module Assessment
20-05-2025 Tuesday	
21-05-2025 Wednesday	
22-05-2025 Thursday	Block Assessment
23-05-2025 Friday	
24-05-2025 Saturday	
26-05-2025 Monday	
27-05-2025 Tuesday	
28-05-2025 Wednesday	

***Note: All dates are subject to change.**

Annexure I

Templates for Theory Paper

- **MCQ, SEQ Paper, & EMQ**

Templates for AV OSPE

Templates for Structured Viva

Rawalpindi Medical University Rawalpindi
Department of Anatomy, Physiology & Biochemistry
MCQs & EMQ Paper for _____ Module, First Year MBBS Batch 52
Date: 00-00-0000

Total Marks: 30 (MCQs: 25, EMQ: 5) Roll No. _____
Total Time: 30 Minutes Name. _____
Each MCQ carries 1 mark and EMQ carries 5 marks

Encircle the single best response

Q.#	Integrated & Clinically Oriented Assessment of the Subject Anatomy, Physiology & Biochemistry Section A: Core Knowledge of Anatomy / Physiology / Biochemistry (70%)	Level of Cognition
1.	Question …… a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C1
	Section – B: Integrations (30%)	
	Horizontal Integration Anatomy / Physiology / Biochemistry (5%)	
2.	**Horizontal Integration with Anatomy (2.5%)** Questions ……. a. …….. b. …….. c. …….. d. …….. e. …….. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C1
	Vertical Integration with Medicine / Surgery / Gynae Obs etc (15%)	
3.	Question ……. a. ……. b. ……. c. ……. d. …….	C3

	e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	
Spiral Integration (10%)		
Medical Bioethics		
4.	Question …… a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C2
Family Medicine		
5.	Question …… a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	

Rawalpindi Medical University Rawalpindi
Department of Anatomy, Physiology & Biochemistry
SEQ & SAQ Paper for _____ Module, _____ Year MBBS Batch _____
Date: 00-00-0000

Total Marks: 70
Each SAQ carries 5 marks
Each SEQ carries 9 marks

Time allowed: 1 hour & 30 minutes
Each SAQ: 5 minutes, SEQ: 10 minutes

Attempt all Questions

Integrated & Clinically Oriented Assessment of the Subject of Anatomy, Physiology & Biochemistry					
Domain		**Percentage**			
• **Core Knowledge (CK) of Anatomy/Physiology Biochemistry**		**(70%)**			
• **Integration**		**(30%)**			
○ **Horizontal Integration (HI)**		**(05%)**			
○ **Vertical Integration (VI)**		**(15%)**			
○ **Spiral Integration (SI)**		**(10%)**			
Q.#	**Construct your Answers according to the given Scenarios and Questions**	**Domain**	**Marks**	**% Weightage**	**Level of Cognition**
Short Answer Questions (SAQs) Total Marks: 25 (Each SAQ carries marks)					
SAQ 1	A 55 years Male, known case of Coronary Artery Disease, presented to…… …….. …….. ……..	CK & VI	……..	…….	……
	a. ……. …….	CK	2	8%	C2
	b. ……. …….	CK	2	12%	C2
	c. ……. ……	CK	2	8%	C2

	d. …… ……	CK	2	12%	C2
	e. …… …… USMLE Question. References: Part a: Guyton & Hall 14th Edition page # 114 Part b: Guyton & Hall 14th Edition Page # 116	CK	1	8%	C2

Q.#	**Construct your Answers according to the given Scenarios and Questions**	**Domain**	**Marks**	**% Weightage**	**Level of Cognition**
Short Essay Question (SEQs) Total Marks: 45					
SEQ 1	A 55 years Male, known case of Coronary Artery Disease, presented to…… …….. …….. ……..	CK & VI	……..	…….	……
	a. …… ……	HI with Anatomy	2	6.66%	C2
	b. …… ……	CK	3	6.66%	C2
	c. …… ……	CK	2	6.66%	C2
	d. …… ……	CK	1	6.66%	C2
	e. …… …… USMLE Style Question. References: • Part a: Guyton & Hall 14th Edition page # 101 • Part b: Guyton & Hall 14th Edition Page # 103 • Part c: Guyton & Hall 14th Edition Page # 103	CK	1	6.66%	C2

Rawalpindi Medical University Rawalpindi
Department of Anatomy / Physiology / Biochemistry
Clinically Oriented Audio Visal Objective Structured Practical Examination (OSPE)
_____ Module 2025

_____ Year MBBS (Batch _____)

Day: _____

Date: _____

10 AV OSPE Slides

Time Allowed: 50 minutes

05 minutes for each slide

Chairperson
Department of _____
Rawalpindi Medical University, Rawalpindi

Additional Director Assessment
Rawalpindi Medical University
Rawalpindi

Director DME
Rawalpindi Medical University
Rawalpindi

Vice Chancellor
Rawalpindi Medical University
Rawalpindi

Slide 1

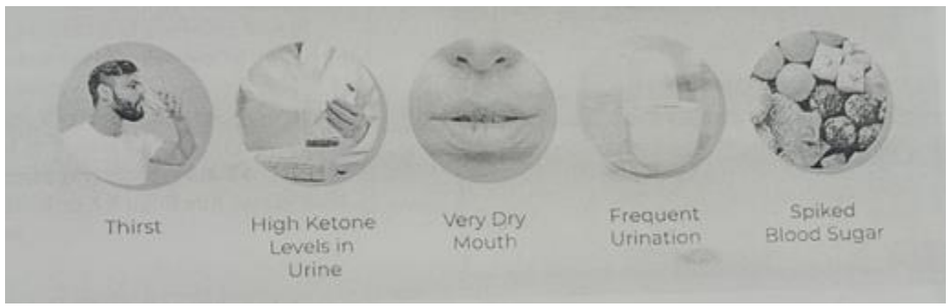
Core Knowledge with Horizontal / Vertical / Spiral Integration

Topic:

Teaching Strategy:

Requirements: Answer sheet, Pen

Objective: _____



1. ……. (01)
2. ……. (01)
3. ……. (01)
4. ……. (01)
5. ……. (01)

Slide 1

Key for Examiner

1. ……
2. …….
3. …….
4. ……..
5. ……..

Department of Anatomy

MSK-I Module (Structured Viva)

Date: Time: 8:00-2:00pm Roll no: 181 onwards

Roll no.	Osteology of upper limb (radius, ulna,bones of hand) and clinicals (10)	Arthrology of upper limb (shoulder, elbow,radioulnar and small joints of hand) with clinicals (05)	Flexor and extensor compartments of arm with clinicals (C1-C3) (10)	Flexor and extensor compartments of forearm with clinicals (C1-C3) (05)	Palm and dorsum of hand with retinuclae and clinicals (C1-C3) (5)	Surface marking (skill) (05)	Soft tissue spotting (skill) (05)	Gross sketch copy (skill) (02)	Professionalism (PCD) (03)	Total marks (50)

Examiner _____

Sign _____

Stamp _____

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

Department of Physiology

MSK-I Module (Structured Viva)

MODULE: _____ **DATE:** _____ **TEACHER NAME:** _____ **SIGNATURE**_____

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

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

Department of Biochemistry

MSK-I 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)**

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

Rawalpindi Medical University
1st Year MBBS Model MCQS (USMLE Format)

1. 30-year-old Female secretary presents with wrist pain and a sensation of numbness and burning in her palm and the first, second, and third fingers of her right hand. The pain worsens at night and is relieved by loose shaking of the hand. There is sensory loss in the same fingers. Exam reveals a positive Tinel's sign. What could be the likely diagnosis? A) Carpel Tunnel syndrome B) Cubital Tunnel Syndrome C) Saturday night palsy D) Pronator syndrome E) Klumpke's paralysis	Anatomy
2. A 35-year-old lady presented with sudden onset of extreme muscle weakness. She could not talk or see. After administration of a drug called neostigmine, her symptoms improved because the drug a. Activates acetylcholine: A) Activates acetylcholine esterase permanently B) Activates acetylcholine temporarily C) Inhibits acetylcholine permanently: D) Inhibits acetylcholine esterase temporarily E) Releases acetylcholine at the nerve termina	Physiology
3. A 60-year-old male presents to the clinic with complaints of easy bruising and prolonged bleeding after minor cuts. He reports a recent history of increased bleeding during his dental procedure and noticed excessive bruising on his arms after a fall. Upon examination, his medical history reveals that he has been on long-term anticoagulant therapy for atrial fibrillation. Blood tests show a prolonged prothrombin time (PT). Which of the following vitamins is most likely playing a critical role in this patient's blood clotting ability? A) Riboflavin B) Vitamin C C) Pyridoxine D) Folic acid E) Vitamin K	Biochemistry

Rawalpindi Medical University
1st Year MBBS Model SEQs & SAQs (USMLE Format)

Q1. A 12-year-old male football player presented to the emergency department with a painful right elbow after a tackle during a game. He reported that he landed on his right arm and felt a sudden, sharp pain in his elbow. He was diagnosed with a fracture of the medial epicondyle of the humerus. 1. Which nerve and artery is affected in this case? (1) 2. Enlist the muscles supplied by this nerve. (1) 3. What would be the position of hand in this case? (1) 4. What is the most common complication of a medial epicondyle fracture in children? (1) 5. What would be an appropriate management option for a displaced medial epicondyle fracture? (1)	Anatomy
Q2. A 35-year-old lady presented in emergency department with sudden onset of shortness of breath, dropping of eyelids and slurring of speech. Her serum auto-antibody titer was much raised. These antibodies were directed against ligand- gated-channels at the neuromuscular junction. The symptoms reversed after the administration of a drug prescribed by the duty doctor. 1. Name the drug. Give its mechanism of action. (1) 2. Name the disorder she is suffering from. (1) 3. What is the pathophysiological basis of this disorder? (3) 4. What other common symptom is associated with Myasthenia Gravis that may help in diagnosis? 5. What is the most commonly affected muscle group in Myasthenia Gravis?	Physiology
Q3. A 40-year-old woman with minimal sunlight exposure, a poor diet, and symptoms of fatigue, bone pain, muscle weakness, and low light vision difficulty presents to the clinic. Blood tests reveal low serum calcium and low vitamin D levels. 1. What is the most likely diagnosis? 2. What is the biological function of Vitamin D? 3. What is the appropriate treatment for Vitamin D deficiency? 4. What is the role of Vitamin A in the visual cycle? 5. What is the most likely cause of her night blindness?	Biochemistry

Sample EMQ

A 60-year-old man presents to the clinic with complaints of progressive weakness in his legs over the past six months. He reports difficulty climbing stairs and standing from a seated position. On examination, there is noticeable wasting (atrophy) of the muscles in his thighs and calves bilaterally. Neurological examination reveals normal reflexes and sensation. He denies any recent trauma or prolonged immobilization.

Match the following types and causes of muscle atrophy with their corresponding descriptions:

Types and Causes of Muscle Atrophy:

A. Disuse atrophy
B. Neurogenic atrophy
C. Cachexia
D. Sarcopenia
E. Endocrine-related atrophy
F. Denervation atrophy
G. Malnutrition-related atrophy

Descriptions:

Atrophy due to reduced physical activity or immobilization, leading to loss of muscle mass and strength.

Muscle wasting secondary to damage or disease affecting the nerves that supply the muscles.

Severe muscle wasting associated with chronic illness such as cancer, characterized by involuntary weight loss and systemic inflammation.

Age-related loss of muscle mass and strength, often seen in elderly individuals.

Muscle wasting due to hormonal imbalances or deficiencies affecting muscle protein synthesis.

Atrophy resulting from inadequate intake of essential nutrients, leading to muscle weakness and wasting.

Matching:

Type A:
Type B:
Type C:
Type D:
Type E:
Type F:
Type G:

Rawalpindi Medical University
1st Year MBBS Model AV OSPE

Slide 1 / Video

Core Knowledge with Horizontal / Vertical / Spiral Integration

Topic: Dinner Fork Deformity

Teaching Strategy: Small Group Discussion

Requirements: Answer sheet, Pen

Objective: To Assess the Knowledge of Students Regarding Injuries of Upper Limb

1. Name the clinical condition shown in video / slide? (01)
2. What is the primary cause of this clinical condition? (01)
3. Which muscles are most commonly affected? (01)
4. Discuss the radiological findings seen in this condition? (01)
5. What are the management options for this patient? (01)

Rawalpindi Medical University
1st Year MBBS OSPE (Block-I)

Observed Station ___

Marks: 05 Time Allowed: 03 Minutes

Subject: Biochemistry
Topic assessed: Plasma Protein
Requirements: Urine sample from the patient, Burette, Dilute acetic acid solution, Ethanol (95%), Test tube and rack Pipette White paper for background contrast
Objective: To Perform Burette Test

For Candidate:	**Learning domain**	**Marks**
You are in a clinical laboratory setting, and a 45-year-old female patient has been admitted with suspected nephrotic syndrome. The attending physician has requested a quick screening test to check for the presence of albumin in her urine. Perform the Burette Test on a urine sample to detect albumin.	**Psychomotor (C1)**	**5 Marks**

Key Station ____

Requirements: Urine sample from the patient, Burette, Dilute acetic acid solution, Ethanol (95%), Test tube and rack Pipette White paper for background contrast

Q1	Answer	Marks
1	Transfer 5 mL of the urine sample into a clean test tube.	1
2	Add 2-3 drops of dilute acetic acid to acidify the sample.	1
3	Slowly add ethanol (95%) dropwise along the side of the test tube.	1
4	Observe the interface for the formation of a milky white precipitate.	1
5	Interpret a positive result as the presence of albumin if precipitate forms.	1

Integrated Spiral Clinically Oriented Modular Curriculum for First Year MBBS

MSK-II Module Time Table

First Year MBBS

Session 2024 - 2025

Batch- 52

MSK-II Module Team

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

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

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

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

Discipline Wise Details of Modular Content

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

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

Categorization of Modular Content

Department of Anatomy

Category A*	Category B**		Category C***			
Embryology	**General Histology**	**General Anatomy**	**Demonstrations (SGD)**	**Practicals/Skill Lab. (SKL)**	**CBL**	**SDL**
• Development of Axial Skeleton • Development of limbs • Development of muscles	• Muscles-I • Muscles-II • Skin • Appendages	Muscles-I Muscles-II Skin	**Gross Anatomy:** • Hip bone • Femur • Anterolateral compartment of thigh (muscles) • Anterolateral compartment of thigh (neurovascular organization) • Medial compartment of thigh • Gluteal region (muscles) • Gluteal region (neurovascular organization) • Posterior compartment of thigh (muscles) • Posterior compartment of thigh (neurovascular organization) • Hip joint • Tibia • Fibula • Popliteal fossa • Knee joint • Anterior compartment of leg(muscles) • Anterior compartment of leg (neurovascular organization) • Lateral compartment of leg • Surface marking and radiology	• Skeletal muscles • Smooth muscle and cardiac muscle • Thick skin • Thin skin	• Hip Dislocation • Fracture of neck of femur	• Pelvic Fractures Developmental Dysplasia of the Hip (DDH) • Fracture of Neck of Femur Avascular Necrosis of Femoral Head Coxa Vara and Coxa Valga Deformities • Femoral Hernia injury to Femoral Nerve • Adductor Tendinopathy Obturator Nerve Entrapment Syndrome • Sciatica Trochanteric Bursitis Hip Dislocations • Hamstring Muscle Tear/Strain Deep Vein Thrombosis (DVT) • Osteoarthritis of Hip Hip Dislocations (Posterior more common) Developmental Dysplasia of Hip (DDH) • Tibial Shaft Fracture Shin Splints (Medial Tibial Stress Syndrome) Stress Fractures of Tibia • Fibular Fractures (commonly with ankle injuries) Common Peroneal Nerve Injury at Neck of Fibula (foot drop) Fibular Graft Harvest

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Anatomy

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

Contact Hours (Faculty)

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

Contact Hours (Students)

Sr. #	Hours Calculation for Various Type of Teaching Strategies	Total Hours
1.	Large Group Interactive Session (LGIS)	1 * 10 = 10 hours
2.	Small Group Discussions (SGD)	1*4=4 hours 2 *13 = 26 Hours
3.	Case Based Learning (CBL)	2* 2 = 4 hours
4.	Practical / Skill Lab	1.5 * 4 = 6 hours
5.	Self-Directed Learning (SDL)	1 * 8= 8 hours

Department of Physiology

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

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

Category A*: By Professors

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Physiology

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

Contact Hours (Faculty)

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

Department of Biochemistry

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

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

Teaching Staff / Human Resource of Department of Biochemistry

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

Contact Hours (Faculty)

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

Contact Hours (Students)

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

Time Table for MSK-II Module (First Week)
(29-05-2025 To 04-06-2025)

Date/Day	8:00am – 09:00am	09:00am– 10:00am	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
29-05-2025 Thursday	**SGD/DISSECTION** Hip Bone	**PEDIATRICS** Congenital Talipes Equino Varus (CTEV).	**Break**	**ANATOMY LGIS** General Anatomy (Muscle I) / Assoc. Prof. Dr Arsalan (Even) Histology (Skeletal Muscle) / Assoc. Prof. Dr Mohtasham (Odd)	**PHYSIOLOGY LGIS** Introduction to muscle physiology,Structure ofsarcomere / Dr Aneela (Even) Introduction to muscle physiology, Structure ofsarcomere / Dr. Uzma (Odd)	**Break**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Molecular Mechanism of skeletal muscle contraction rigor mortis, Muscular dystrophies
Date/Day	**8:00 AM – 09:00 AM**	**09:00AM – 10:00 AM**	**10:00 AM – 11:00 AM**		**11:00 AM – 12:00 PM**			
30-05-2025 Friday	**COMMUNITY MEDICINE (CHEPI-RMU)** Community Health Education and Promotion Initiative (CHEPI-RMU) Topic: Introduction to Health	**SURGERY** Bone Tumors	**ANATOMY LGIS** Histology (Skeletal Muscle) / Assoc. Prof. Dr Mohtasham (Even) General Anatomy (Muscle I) / Assoc. Prof. Dr Arsalan (Odd)		**PHYSIOLOGY LGIS** Sarcotubular system, excitation contraction coupling mechanism in skeletal muscle / Prof. Dr. Samia Sarwar/ Dr Aneela (Even) Sarcotubular system, excitation contraction coupling mechanism inskeletal muscle / Dr. Uzma (Odd)	SDL Anatomy Pelvic Fractures Developmental Dysplasia of the Hip (DDH)		
31-05-2025 Saturday	**RADIOLOGY** X rays of Hip Bone Dr. Qurat Ul Ain (Odd) / Dr. Aneeqa (Even)	**PBL 1 (SESSION-I)** PBL Team	**Break**	**BIOCHEMISTRY LGIS** Properties of amino acids & important peptides / Dr. Rahat (Even) Collagn structure, synthesuis and related disorders / Dr. Aneela (Odd)	**PHYSIOLOGY LGIS** Molecular Mechanism of skeletal muscle contraction rigor mortis, Muscular dystrophies / Prof. Dr. Samia Sarwar/ Dr. Aneela (Even) Molecular Mechanism of skeletal muscle contraction rigor mortis, Muscular dystrophies / Dr. Uzma (Odd)	**Break**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Fracture of Neck of Femur Avascular Necrosis of Femoral Head Coxa Vara and Coxa Valga Deformities
02-06-2025 Monday	**DISSECTION** Hip bone			**ANATOMY LGIS** General Anatomy (Muscle II) / Assoc. Prof. Dr Arsalan (Even) Histology (Cardiac & Smooth Muscles) / Assoc. Prof. Dr Mohtasham (Odd)	**FAMILY MEDICINE** Communication and consultation skills in Family Medicine Practice Dr. Sadia Azam Khan		**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Classification of proteins
03-06-2025 Tuesday	**SGD / DISSECTION** Femur			**BIOCHEMISTRY LGIS** Collagn structure, synthesuis and related disorders / Dr. Aneela (Even) Properties of amino acids & important peptides / Dr. Rahat (Odd)	**PHYSIOLOGY LGIS** Length tension curve, Load and velocity of contraction, diseases of muscle / Dr. Sheena (Even) Energetics, efficiency and types of contraction, heat production in muscle / Dr. Uzma (Odd)		**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Introduction to proteins and amino acids
04-06-2025 Tuesday	**CBL / DISSECTION** Femur / Patella Fracture Neck of Femur			**ANATOMY LGIS** Histology (Cardiac & Smooth Muscles) / Assoc. Prof. Dr Mohtasham (Even) General Anatomy (Muscle II) / Assoc. Prof. Dr Arsalan (Odd)	**PHYSIOLOGY LGIS** Energetics, efficiency and types of contraction, heat production in muscle / Dr. Uzma (Even) Length tension curve, Load and velocity of contraction, diseases of muscle / Dr. Sheena (Odd)		**Practical & SGD/CBL** Topics & venue mentioned at the end	SDLPhysiology Rigor mortis, Muscular dystrophies

Table No. 1 (Time: 12:30pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	**Teacher Name**	**Batch**	**Teacher Name**		**Batch**	**Teacher Name**		**Batch**	**Teacher Name**	**Batch**	**Teacher Name**
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Almas		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Romessa
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Sana Latif
Thursday	**B**		**A**	Dr. Sana Latif		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Almas
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Rahat

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Senior Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nabiha (PGT Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Maaria (PGT Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 70	A1: Roll No (1 – 17) A2: Roll No (18 – 34) A3: Roll No (35 – 51) A4: Roll No (52 – 70)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 01 / Anatomy Museum
B	71-140	B1: Roll No (71 – 87) B2: Roll No (88 – 104) B3: Roll No (105 – 121) B4: Roll No (122 – 140)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
C	141-210	C1: Roll No (141 – 157) C2: Roll No (158 – 174) C3: Roll No (175 – 191) C4: Roll No (192 – 210)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
D	211- 280	D1: Roll No (211 – 227) D2: Roll No (228 - 244) D3: Roll No (245 – 261) D4: Roll No (262 – 280)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
E	281- onwards	E1: Roll No (281 – 297) E2: Roll No (298 – 314) E3: Roll No (315 – 331) E4: Roll No (332 – onwards)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Eid Ul Adha & Summar Vacations	**06th June – 29th June 2025**

Time Table for Module MSK-II (Second Week)
(30-06-2025 To 05-07-2025)

Date/Day	8:00am-9:00am	9:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
30-06-2025 Monday	**SGD / DISSECTION**		**Break**	**Break**		**PHYSIOLOGY LGIS**		**Break**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDLPhysiology Rigor mortis, Muscular dystrophies
	Anterolateral compartment of thigh (Muscles & Neurovascular organization)			Classification and functions of proteins	Elastin structure and related disorders	Properties of skeletal muscles, Tetanus & Fatigue	Introduction to CVS			
				Dr. Rahat (Even)	Dr. Aneela / Dr. Uzma (Odd)	Dr. Sheena (Even)	Dr. Fahd (Odd)			
01-07-2025 Tuesday	**SGD / DISSECTION**	**PBL 1 (SESSION-II)**		**ANATOMY LGIS**		**MEDICINE (Geriatric Medicine)**			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Length tension curve, Load and velocity of contraction, diseases of muscle
	Dissection	PBL Team		Embryology (Development of Axial Skeleton)	Histology (Skin)	Aging				
				Prof. Dr Ayesha (Even)	Assoc. Prof. Dr. Mohtasham (Odd)					
02-07-2025 Wednesday	**SGD / DISSECTION**			**BIOCHEMISTRY LGIS**		**PHYSIOLOGY LGIS**			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Collagen and related disorders
	Medial Compartment of thigh			Elastin structure and related disorders	Classification and functions of proteins	Introduction to CVS	Properties of skeletal muscles, Tetanus & Fatigue			
				Dr. Aneela Dr. Uzma (Even)	Dr. Rahat (Odd)	Dr. Fahd (Even)	Dr. Sheena (Odd)			
03-07-2025 Thursday	**SGD / DISSECTION**			**ANATOMY LGIS**		**PHYSIOLOGY LGIS**			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Secondary Structure of protiens
	Dissection			Histology (Skin)	Embryology (Development of Axial Skeleton)	Physiologic anatomy, types and properties of Smooth muscle	Introduction topericardium Properties of myocardium & endocardium myocardial action potential			
				Assoc. Prof. Dr Mohtasham (Even)	Prof. Dr Ayesha (Odd)	Dr. Aneela (Even)	Dr. Sidra (Odd)			
DATE/ DAY	**8:00 AM – 10:00 AM**		**10:00 AM – 11:00 AM**			**11:00 AM – 12:00 PM**				
04-07-2025 Friday	**SGD / DISSECTION**		**ANATOMY LGIS**			**COMMUNITY MEDICNE (CHEPI)**			SDL Anatomy Femoral Hernia injury to Femoral Nerve	
	Gluteal Region Muscles / Neurovascular organization		Histology (Skin appendages)	Embryology (Development of limbs)		Hand Hygiene				
			Assoc. Prof. Dr Mohtasham (Even)	Prof. Dr Ayesha (Odd)						
05-07-2025 Saturday	**PRACTICAL ACTIVITY 1 COMMUNITY MEDICNE (CHEPI)**		**Break**	**ANATOMY LGIS**		**PHYSIOLOGY LGIS**		**Break**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Adductor Tendinopathy Obturator Nerve Entrapment Syndrome Mid Online Clinical evaluation
	Hand Hygiene			Embryology (Development of limbs)	Histology (Histology of Skin appendages)	Introduction topericardium Properties of myocardium & endocardium myocardial action potential	Physiologic anatomy, types and properties of Smooth muscle			
				Prof. Dr Ayesha (Even)	Assoc. Prof. Dr Mohtasham (Odd)	Dr. Sidra (Even)	Dr. Aneela (Odd)			

Table No. 1 (Time: 12:30pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical			Physiology Practical			Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat	Supervised by HOD	**E**	Dr. Ali /Dr. Afsheen	Supervised by HOD	**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Almas		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Romessa
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Sana Latif
Thursday	**B**		**A**	Dr. Sana Latif		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Almas
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Rahat

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Senior Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nabiha (PGT Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Maaria (PGT Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 70	A1: Roll No (1 – 17) A2: Roll No (18 – 34) A3: Roll No (35 – 51) A4: Roll No (52 – 70)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 01 / Anatomy Museum
B	71-140	B1: Roll No (71 – 87) B2: Roll No (88 – 104) B3: Roll No (105 – 121) B4: Roll No (122 – 140)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
C	141-210	C1: Roll No (141 – 157) C2: Roll No (158 – 174) C3: Roll No (175 – 191) C4: Roll No (192 – 210)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
D	211- 280	D1: Roll No (211 – 227) D2: Roll No (228 - 244) D3: Roll No (245 – 261) D4: Roll No (262 – 280)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
E	281- onwards	E1: Roll No (281 – 297) E2: Roll No (298 – 314) E3: Roll No (315 – 331) E4: Roll No (332 – onwards)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Time Table for Module MSK-II (Third Week)
(07-07-2025 To 12-07-2025)

Date/Day	8:00am – 09:00am	09:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
07-07-2025 Monday	**SGD / DISSECTION**	**COMMUNITY MEDICNE (CHEPI)**	Break	**ANATOMY LGIS**		**PHYSIOLOGY LGIS**		Break	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Physiologic anatomy, types and properties of Smooth muscle
	Dissection	Nutrition & Healthy Eating Habits		Embryology (Development of Muscles)	(General Anatomy of Skin)	Mechanism of smooth muscle contraction & its control	Regulation of myocardial activity			
				Prof. Dr Ayesha (Even)	Assoc. Prof. Dr Arsalan (Odd)	Dr..Aneela (Even)	Dr. Sidra (Odd)			
08-07-2025 Tuesday	**SGD / DISSECTION**			**BIOCHEMISTRY LGIS**		**PHYSIOLOGY LGIS**			**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Mechanism of smooth muscle contraction & its control
	Posterior compartment of thigh Muscles / Neurovascular organization			Primary protein structure	Protein folding and misfolding	Regulation of myocardial activity	Mechanism of smooth muscle contraction & its control			
				Dr. Rahat (Even)	Dr. Kashif (Odd)	Dr..Sdra (Even)	Dr. Aneela (Odd)			
09-07-2025 Wednesday	**PRACTICAL ACTIVITY 2 COMMUNITY MEDICNE (CHEPI)**			**ANATOMY LGIS**		**PHYSIOLOGY LGIS**			**Practical & SGD/CBL** Topics & venue mentioned at the end	Biochemistry Protein misfolding disorders
	Nutrition & Healthy Eating Habits			(General Anatomy of Skin)	Embryology (Development of Muscles)	Excitatory &Conducting system ofheart	Comparison of 3 types of muscle			
				Assoc. Prof. Dr Arsalan (Even)	Prof. Dr Ayesha (Odd)	Dr. Fahd (Even)	Dr. Aneela (Odd)			
10-07-2025 Thursday	**SGD/ DISSECTION**	**PBL 2 (SESSION-I)**		**JOINT SESSION**		**BIOCHEMISTRY LGIS**			**Practical & SGD/CBL** Topics & venue mentioned at the end	Biochemistry Protein Denatureration
	Tibia	PBL Team		Fracture of Lower Limb		Protein folding and misfolding	Protein folding and misfolding			
				Anatomy, Radiology, Orthopeads, & Pathology		Dr. Kashif (Even)	Dr. Rahat (Odd)			
11-07-2025 Friday	Early Clinical Exposure (ECE)									SDL Anatomy Sciatica Trochanteric Bursitis Hip Dislocations
12-07-2025 Saturday	**CBL / DISSECTION**		Break	**BIOCHEMISTRY LGIS**		**PHYSIOLOGY LGIS**		Break	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Hamstring Muscle Tear/Strain Deep Vein Thrombosis (DVT)
	Hip joint / Hip Dislocations			Protein separation techniques	Secondary protein structure	Comparison of 3 types of muscle	Excitatory & Conducting system of heart			
				Dr. Kashif (Even)	Dr. Rahat (Odd)	Dr. Aneela (Even)	Dr. Fahd (Odd)			

Table No. 1 (Time: 12:30pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical		Supervised by HOD	Physiology Practical		Supervised by HOD	Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat		**E**	Dr. Ali /Dr. Afsheen		**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Almas		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Romessa
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Sana Latif
Thursday	**B**		**A**	Dr. Sana Latif		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Almas
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Rahat

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Senior Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nabiha (PGT Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Maaria (PGT Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 70	A1: Roll No (1 – 17) A2: Roll No (18 – 34) A3: Roll No (35 – 51) A4: Roll No (52 – 70)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 01 / Anatomy Museum
B	71-140	B1: Roll No (71 – 87) B2: Roll No (88 – 104) B3: Roll No (105 – 121) B4: Roll No (122 – 140)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
C	141-210	C1: Roll No (141 – 157) C2: Roll No (158 – 174) C3: Roll No (175 – 191) C4: Roll No (192 – 210)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
D	211- 280	D1: Roll No (211 – 227) D2: Roll No (228 - 244) D3: Roll No (245 – 261) D4: Roll No (262 – 280)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
E	281- onwards	E1: Roll No (281 – 297) E2: Roll No (298 – 314) E3: Roll No (315 – 331) E4: Roll No (332 – onwards)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

Time Table for Module MSK-II (Fourth Week)
(14-07-2025 To 19-07-2025)

Date/Day	8:00 am – 10:10 am	10:10am – 10:30am	10:30am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
14-07-2025 Monday	**SGD / DISSECTION** Fibula	**Break**	**BIOCHEMISTRY LGIS** Protein folding & denaturation | Tertiary and quaternary structure Dr. Aneela / Dr. Uzma (Even) | Dr. Rahat (Odd)	**BEHAVIORAL SCIENCES** Rights and responsibilities of patients and doctors Dr. Sadia Yasir (Odd) | Dr. Mehboob Ali Shah (Even)	**Break**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Regulation of Myocardial Activity
15-07-2025 Tuesday	**SGD / DISSECTION** Popliteal Fossae / Knee joint		**COMMUNITY MEDICNE (CHEPI)** Eye Hygiene	**BIOCHEMISTRY LGIS** Tertiary and quaternary structure | Protein denaturation Dr. Rahat (Even) | Dr. Aneela Dr. Uzma (Odd)		**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Physiology Excitatory & Conducting system of heart Comparison of 3 types of muscle
16-07-2025 Wednesday	**PRACTICAL ACTIVITY 3 COMMUNITY MEDICNE (CHEPI)** Eye Hygiene		Physical Activity	**FAMILY MEDICINE** Communication and consultation skills in Family Medicine Practice Dr. Sadia Azam Khan		**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Importance of various classes of protein
17-07-2025 Thursday	**SGD / DISSECTION** Anterior compartment of leg (muscles and neurovascular organization)		**COMMUNITY MEDICNE (CHEPI)** Oral Hygiene	**PBL 2 (SESSION-II)** PBL Team		**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Biochemistry Elastin and related disorders

Date/ Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00 AM – 11:00 AM	11:00 AM – 12:00 PM			
18-07-2025 Friday	**SGD / DISSECTION** Lateral compartment of leg (muscles and neurovascular organization)	**PRACTICAL ACTIVITY 4 COMMUNITY MEDICNE (CHEPI)** Oral Hygiene			SDL Anatomy Osteoarthritis of Hip Hip Dislocations (Posterior more common) Developmental Dysplasia of Hip (DDH)		
19-07-2025 Saturday	**SGD / DISSECTION** Cross Sectional Anatomy / Radiology	**Break**	**BEHAVIOURAL SCIENCES** Psychological relation in doctor-patient relationship Dr. Mehboob Ali Shah (Odd) | Dr. Mehmood Ali (Even)		**Break**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Tibial Shaft Fracture Shin Splints (Medial Tibial Stress Syndrome) Stress Fractures of Tibia / Fibular Fractures (commonly with ankle injuries) Common Peroneal Nerve Injury at Neck of Fibula (foot drop) Fibular Graft Harvest End Of Module Online Clinical Evalution

Table No. 1 (Time: 12:30pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical

Day	Histology Practical		Biochemistry Practical		Supervised by HOD	Physiology Practical		Supervised by HOD	Physiology SGD		Biochemistry SGD	
	Batch	Teacher Name	Batch	Teacher Name		Batch	Teacher Name		Batch	Teacher Name	Batch	Teacher Name
Monday	**C**	Supervised by HOD	**B**	Dr. Rahat		**E**	Dr. Ali /Dr. Afsheen		**A**	Dr. Sheena	**D**	Dr. Uzma Zafar
Tuesday	**D**		**C**	Dr. Almas		**A**	Dr. Sheena		**B**	Dr. Uzma	**E**	Dr. Romessa
Wednesday	**E**		**D**	Dr. Uzma		**B**	Dr. Uzma		**C**	Dr. Farah	**A**	Dr. Sana Latif
Thursday	**B**		**A**	Dr. Sana Latif		**D**	Dr. Nazia		**E**	Dr. Ali/Dr. Afsheen	**C**	Dr. Almas
Saturday	**A**		**E**	Dr. Romessa		**C**	Dr. Farah		**D**	Dr. Nazia	**B**	Dr. Rahat

Topics for SGDs / CBL with Venue

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

Table No. 2 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions

Sr No.	Batches	Roll No	Venue	Teachers	Sr No.	Batches	Roll No	Venue	Teachers
1.	**A1**	(01-35)	Lecture Hall no.05 Physiology	Dr. Sana Latif (Senior Demonstrator Biochemistry)	6.	**C2**	(176-210)	New Lecture Hall Complex Lecture Theater # 03	Dr. Nabiha (PGT Physiology)
2.	**A2**	(36-70)	Lecture Hall #.04 (1st Floor Anatomy)	Dr. Maaria (PGT Physiology)	7.	**D1**	(210-245)	New Lecture Hall Complex Lecture Theater # 02	Dr. Jawad (Demonstrator Physiology)
3.	**B1**	(71-105)	Anatomy Museum (First Floor Anatomy)	Dr. Nayab Ramzan (APWMO Biochemistry)	8.	**D2**	(246-280)	New Lecture Hall Complex Lecture Theater # 02	Dr. Kashif Ashraf (Demonstrator Anatomy)
4.	**B2**	(106-140)	Lecture Hall no.03 (First Floor)	Dr. Zeneara Saqib (Senior Demonstrator of Anatomy)	9.	**E1**	(281-315)	Anatomy Museum (First Floor Anatomy)	Dr. Uzma Zafar (APWMO Biochemistry)
5.	**C1**	(141-175)	Anatomy Museum (First Floor Anatomy)	Dr. Farhat (PGT Physiology)	10	**E2**	(315 onwards)	Lecture Hall no.04	Dr. Najam (PGT Physiology)

Table No. 3 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

Table No. 4 Batch Distribution and Venues for Anatomy Small Group Discussion SGDs / Dissections

Batches	Roll No	Subgroup	Anatomy Teacher	Venue
A	01- 70	A1: Roll No (1 – 17) A2: Roll No (18 – 34) A3: Roll No (35 – 51) A4: Roll No (52 – 70)	Dr. Zeneara Saqib (Demonstrator)	New Lecture Hall Complex 01 / Anatomy Museum
B	71-140	B1: Roll No (71 – 87) B2: Roll No (88 – 104) B3: Roll No (105 – 121) B4: Roll No (122 – 140)	Dr. Ali Raza (Senior. Demonstrator)	Anatomy Lecture Hall 03
C	141-210	C1: Roll No (141 – 157) C2: Roll No (158 – 174) C3: Roll No (175 – 191) C4: Roll No (192 – 210)	Dr. Sajjad Hussain (Senior. Demonstrator)	Anatomy Lecture Hall 04
D	211- 280	D1: Roll No (211 – 227) D2: Roll No (228 - 244) D3: Roll No (245 – 261) D4: Roll No (262 – 280)	Dr. Tayyaba Qureshi (Assistant Professor)	New Lecture Hall Complex 02
E	281- onwards	E1: Roll No (281 – 297) E2: Roll No (298 – 314) E3: Roll No (315 – 331) E4: Roll No (332 – onwards)	Dr. Sumyyia Bashir (Assistant Professor)	New Lecture Hall Complex 3
Supervised by Prof. Dr. Ayesha Yousaf				

Table No. 5 Batch Distribution and Venues for Physiology & Biochemistry Small Group Discussion SGDs

Batches	Roll No	Subgroup	Physiology Teacher	Physiology Venue	Biochemistry Teacher	Biochemistry Venue
A	01-70	A1: Roll No (1 – 14) A2: Roll No (15 – 28) A3: Roll No (29 – 42) A4: Roll No (43 – 56) A5: Roll No (57 – 70)	Dr. Sheena Tariq (APWMO)	Physiology Lecture Hall 5	Dr. Uzma Zafar (APWMO)	Basement Lecture Hall No. 2
B	71-140	B1: Roll No (71 – 84) B2: Roll No (85 – 98) B3: Roll No (99 – 112) B4: Roll No (113 – 126) B5: Roll No (127 – 140)	Dr. Uzma Kiyani (Senior Demonstrator)	Physiology Lecture Hall 5	Dr. Rahat (APWMO)	Basement Lecture Hall No. 2
C	141-210	C1: Roll No (141 – 154) C2: Roll No (155 – 168) C3: Roll No (169 – 182) C4: Roll No (183 – 196) C5: Roll No (197 – 210)	Dr. Farah Shah (Demonstrator)	Physiology Lecture Hall 5	Dr. Almas (APWMO)	Basement Lecture Hall No. 2
D	211-280	D1: Roll No (211 – 224) D2: Roll No (225 – 238) D3: Roll No (239 – 252) D4: Roll No (253 – 266) D5: Roll No (267 – 280)	Dr. Nazia (Demonstrator)	Physiology Lecture Hall 5	Dr. Sana Latif (Senior Demonstrator)	Basement Lecture Hall No. 2
E	281- onwards	E1: Roll No (281 – 294) E2: Roll No (295 – 308) E3: Roll No (309 – 322) E4: Roll No (323 – 336) E5: Roll No (337 – onwards)	Dr. Ali Zain / Dr. Afsheen (P. G Trainee)	Physiology Lecture Hall 5	Dr. Romessa (Demonstrator)	Basement Lecture Hall No. 2
Supervised by Prof. Dr. Samia Sarwar					Supervised by. Dr. Aneela Jamil	

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

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

Class	Module	Day & Date	Time of Assessment	Focal person	Department Responsible
First Year MBBS	MSK-II Module	Monday 30th June,2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 01st July,2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 02nd July ,2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry
		Monday 07th July,2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 08th July,2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 09th July,2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry

Assessment Week
(21-07-2025 To 26-07-2025)

Date & Day	Tentative Schedule
21-07-2025 Monday	Assessment Week
22-07-2025 Tuesday	
23-07-2025 Wednesday	
24-07-2025 Thursday	
25-07-2025 Friday	
26-07-2025 Saturday	

Annexure I

Templates for Theory Paper

- **MCQ, SEQ Paper, & EMQ**

Templates for AV OSPE

Templates for Structured Viva

Rawalpindi Medical University Rawalpindi
Department of Anatomy, Physiology & Biochemistry
MCQs & EMQ Paper for _____ Module, First Year MBBS Batch 52
Date: 00-00-0000

Total Marks: 30 (MCQs: 25, EMQ: 5) Roll No. _____
Total Time: 30 Minutes Name. _____
Each MCQ carries 1 mark and EMQ carries 5 marks

Encircle the single best response

Q.#	Integrated & Clinically Oriented Assessment of the Subject Anatomy, Physiology & Biochemistry Section A: Core Knowledge of Anatomy / Physiology / Biochemistry (70%)	Level of Cognition
1.	Question …… a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C1
	Section – B: Integrations (30%)	
	Horizontal Integration Anatomy / Physiology / Biochemistry (5%)	
2.	**Horizontal Integration with Anatomy (2.5%)** Questions ……. a. …….. b. …….. c. …….. d. …….. e. …….. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C1
	Vertical Integration with Medicine / Surgery / Gynae Obs etc (15%)	
3.	Question ……. a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C3
	Spiral Integration (10%)	
	Medical Bioethics	

4.	Question …… a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	C2
	Family Medicine	
5.	Question …… a. ……. b. ……. c. ……. d. ……. e. ……. USMLE: Type Question Reference: Ganong 25th Edition Page No. 101	

Rawalpindi Medical University Rawalpindi
Department of Anatomy, Physiology & Biochemistry
SEQ & SAQ Paper for _____ Module, _____ Year MBBS Batch _____
Date: 00-00-0000

Total Marks: 70
Each SAQ carries 5 marks
Each SEQ carries 9 marks

Time allowed: 1 hour & 30 minutes
Each SAQ: 5 minutes, SEQ: 10 minutes

Attempt all Questions

Integrated & Clinically Oriented Assessment of the Subject of Anatomy, Physiology & Biochemistry					
Domain		**Percentage**			
• **Core Knowledge (CK) of Anatomy/Physiology Biochemistry**		**(70%)**			
• **Integration**		**(30%)**			
○ **Horizontal Integration (HI)**		**(05%)**			
○ **Vertical Integration (VI)**		**(15%)**			
○ **Spiral Integration (SI)**		**(10%)**			
Q.#	**Construct your Answers according to the given Scenarios and Questions**	**Domain**	**Marks**	**% Weightage**	**Level of Cognition**
Short Answer Questions (SAQs) Total Marks: 25 (Each SAQ carries marks)					
SAQ 1	A 55 years Male, known case of Coronary Artery Disease, presented to…… …….. …….. ……..	CK & VI	……..	…….	……
	a. ……. …….	CK	2	8%	C2
	b. ……. …….	CK	2	12%	C2
	c. …… ……	CK	2	8%	C2
	d. …… ……	CK	2	12%	C2

	e. …… …… USMLE Question. References: Part a: Guyton & Hall 14th Edition page # 114 Part b: Guyton & Hall 14th Edition Page # 116	CK	1	8%	C2

Q.#	**Construct your Answers according to the given Scenarios and Questions**	**Domain**	**Marks**	**% Weightage**	**Level of Cognition**
Short Essay Question (SEQs) Total Marks: 45					
SEQ 1	A 55 years Male, known case of Coronary Artery Disease, presented to…… …….. …….. ……..	CK & VI	……..	…….	……
	a. …… …….	HI with Anatomy	2	6.66%	C2
	b. …… …….	CK	3	6.66%	C2
	c. …… …….	CK	2	6.66%	C2
	d. …… ……	CK	1	6.66%	C2
	e. …… …… USMLE Style Question. References: • Part a: Guyton & Hall 14th Edition page # 101 • Part b: Guyton & Hall 14th Edition Page # 103 • Part c: Guyton & Hall 14th Edition Page # 103	CK	1	6.66%	C2

Rawalpindi Medical University Rawalpindi
Department of Anatomy / Physiology / Biochemistry
Clinically Oriented Audio Visal Objective Structured Practical Examination (OSPE)
_____ Module 2025

_____ Year MBBS (Batch _____)

Day: _____

Date: _____

10 AV OSPE Slides

Time Allowed: 50 minutes

05 minutes for each slide

Chairperson
Department of _____
Rawalpindi Medical University, Rawalpindi

Additional Director Assessment
Rawalpindi Medical University
Rawalpindi

Director DME
Rawalpindi Medical University
Rawalpindi

Vice Chancellor
Rawalpindi Medical University
Rawalpindi

Slide 1

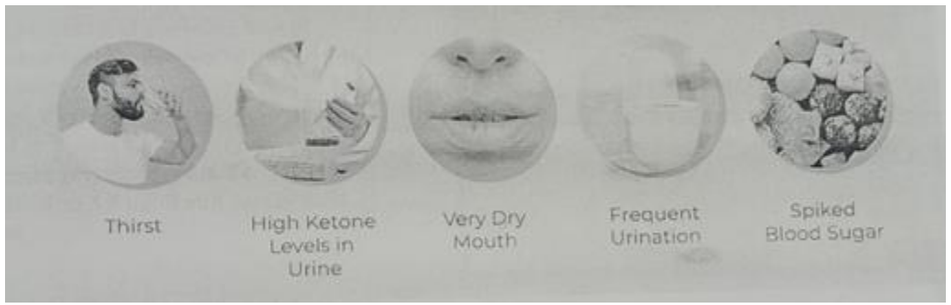
Core Knowledge with Horizontal / Vertical / Spiral Integration

Topic:

Teaching Strategy:

Requirements: Answer sheet, Pen

Objective: _____



1. ……. (01)
2. ……. (01)
3. ……. (01)
4. ……. (01)
5. ……. (01)

Slide 1

Key for Examiner

1. ……
2. ……
3. ……
4. ……..
5. ……..

Department of Anatomy

MSK-I Module (Structured Viva)

Date: Time: 8:00-2:00pm Roll no: 181 onwards

Roll no.	Osteology of upper limb (radius, ulna,bones of hand) and clinicals (10)	Arthrology of upper limb (shoulder, elbow,radioulnar and small joints of hand) with clinicals (05)	Flexor and extensor compartments of arm with clinicals (C1-C3) (10)	Flexor and extensor compartments of forearm with clinicals (C1-C3) (05)	Palm and dorsum of hand with retinuclae and clinicals (C1-C3) (5)	Surface marking (skill) (05)	Soft tissue spotting (skill) (05)	Gross sketch copy (skill) (02)	Professionalism (PCD) (03)	Total marks (50)

Examiner _____

Sign _____

Stamp _____

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

Department of Physiology

MSK-I Module (Structured Viva)

MODULE: _____ **DATE:** _____ **TEACHER NAME:** _____ **SIGNATURE**_____

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

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

Department of Biochemistry

MSK-I 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)**

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

Rawalpindi Medical University
1st Year MBBS Model MCQS (USMLE Format)

1.	A 52-years-old woman fell after slipping and was unable to extend her leg at the knee joint. Which of the following muscles were most likely to be damaged as a result of this accident? A) Semitendinosus B) Sartorius C) Gracilis D) Quadriceps femoris E) Biceps femoris	Anatomy
2.	A 24-year-old woman presents to the clinic with generalized muscle weakness and fatigue. She reports difficulty climbing stairs and has noticed her symptoms worsening over the past few weeks. Laboratory tests show normal serum creatine kinase (CK) levels. The patient is subsequently diagnosed with a condition affecting the actin-myosin interaction in muscle contraction. The process of attachment and detachment of the myosin head from the actin filament is regulated by a chemical change in specific protein chains. Which of the following modifications to regulatory protein chains is most responsible for the cycling of myosin attachment and detachment in muscle contraction? A) Phosphorylation B) Hydroxylation C) Oxidation D) Methylation E) Carboxylation	Physiology
3.	A 30-year-old man presents to the emergency department after experiencing severe fatigue and shortness of breath. Blood tests reveal low hemoglobin levels, and further investigation suggests a deficiency in oxygen-carrying proteins. The physician notes that one of the proteins involved in this patient's condition acts as both a chromoprotein and a metalloprotein, helping in the transport and storage of oxygen. Which of the following proteins functions as both a chromoprotein and a metalloprotein? A) Ferritin B) Albumin C) Myoglobin D) Hemoglobin E) Transferrin	Biochemistry

Rawalpindi Medical University
1st Year MBBS Model SEQs & SAQs (USMLE Format)

Q1. A patient walked in OPD with waddling gait. On examination his pelvis tilted towards unsupported side when he was asked to raise his leg. 1. Which nerve is damaged? 1) 2. Enlist muscles that are damaged. (1) 3. Explain the mechanism behind this clinical condition. (2) 4. What is the clinical name for the gait observed in this patient? (0.5) 5. Which clinical test would most likely confirm the diagnosis in this patient? (0.5)	Anatomy
Q2. A young male athlete was fond of going to gym for body building. He was using energy drinks and special protein supplements to increase his muscle endurance. He was mainly interested in power lifting exercises. 1. Which type of skeletal muscle contraction he was doing predominantly? 2. Name the type of skeletal muscle fibers involved in causing this type of contraction. 3. Differentiate between the two types of skeletal muscle fibers. 4. How does the use of energy drinks and protein supplements help an athlete during powerlifting exercises? 5. What is the primary metabolic pathway utilized by Type IIb muscle fibers during powerlifting?	Physiology
Q3. A 40-year-old woman with minimal sunlight exposure, a poor diet, and symptoms of fatigue, bone pain, muscle weakness, and low light vision difficulty presents to the clinic. Blood tests reveal low serum calcium and low vitamin D levels. 1. What is the most likely diagnosis? 2. What is the biological function of Vitamin D? 3. What is the appropriate treatment for Vitamin D deficiency? 4. What is the role of Vitamin A in the visual cycle? 5. What is the most likely cause of her night blindness?	Biochemistry

Sample Paper of EMQ

Theme: Diagnosis of Musculoskeletal Disorders

Directions:

For each case scenario below, select the most appropriate diagnosis from the list of options provided.

Options:

A. Rheumatoid Arthritis
B. Osteoarthritis
C. Gout
D. Fibromyalgia
E. Osteoporosis
F. Tendonitis
G. Bursitis
H. Fracture
I. Scoliosis
J. Muscular Dystrophy

Case Scenarios:

Case 1: A 55-year-old woman presents with pain and stiffness in her hands, especially in the mornings. The stiffness usually lasts for about an hour. On examination, there is noticeable swelling in the finger joints.

Case 2: A 65-year-old male reports severe pain in the big toe, which appeared suddenly overnight. The toe is red, swollen, and extremely tender on examination.

Case 3: A 70-year-old female has been experiencing back pain. Recent bone density scans show significantly reduced bone mass, making her susceptible to fractures.

Case 4: A 30-year-old male presents with pain in the shoulder that worsens when lifting objects overhead. There is tenderness on palpation over the shoulder joint.

Case 5: A 45-year-old woman complains of widespread body pain, including muscle aches, fatigue, and problems with sleep. She mentions that these symptoms have been persistent for months.

Rawalpindi Medical University
1st Year MBBS Model AV OSPE

Slide 1 / Video

Core Knowledge with Horizontal / Vertical / Spiral Integration

Topic: Congenital Talipes Equino Varus (Clubfoot)

Teaching Strategy: Small Group Discussion

Requirements: Answer sheet, Pen

Objective: To Assess the Knowledge of Students Regarding Congenital Talipes Equino Varus (Clubfoot)

1. What is the name of the deformity shown in the video? (1)
2. Mention any two visible abnormalities you observed in the shape or position of the foot. (1)
3. Which bones are most commonly misaligned in this deformity? (1)
4. How does the position of the foot in CTEV differ from that of a normal foot in terms of alignment? (1)
5. What is the most likely consequence if this deformity is not treated early? (1)

Rawalpindi Medical University
1st Year MBBS OSPE (Block-I)

Observed Station ___

Marks: 05 Time Allowed: 03 Minutes

Subject: Biochemistry

Topic assessed: Plasma Protein

Requirements: Urine sample from the patient, Burette, Dilute acetic acid solution, Ethanol (95%), Test tube and rack Pipette White paper for background contrast

Objective: To Perform Burette Test

For Candidate:	**Learning domain**	**Marks**
You are in a clinical laboratory setting, and a 45-year-old female patient has been admitted with suspected nephrotic syndrome. The attending physician has requested a quick screening test to check for the presence of albumin in her urine. Perform the Burette Test on a urine sample to detect albumin.	**Psychomotor (C1)**	**5 Marks**

Key Station ____

Requirements: Urine sample from the patient, Burette, Dilute acetic acid solution, Ethanol (95%), Test tube and rack Pipette White paper for background contrast

Q1	Answer	Marks
1	Transfer 5 mL of the urine sample into a clean test tube.	1
2	Add 2-3 drops of dilute acetic acid to acidify the sample.	1
3	Slowly add ethanol (95%) dropwise along the side of the test tube.	1
4	Observe the interface for the formation of a milky white precipitate.	1
5	Interpret a positive result as the presence of albumin if precipitate forms.	1

Integrated Clinically Oriented Modular Curriculum for First Year MBBS

Hematology and Immunity Module Time Table

First Year MBBS

Session 2024-2025

Batch- 52

Hematology and Immunity Module Team

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

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

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

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

Discipline Wise Details of Modular Contents

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

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

Categorization of Modular Contents

Anatomy

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

Category A*: By Professor

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resources of Department of Anatomy

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

Contact Hours (Faculty)

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

Contact Hours (Students)

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

Physiology

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

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

Category A*: By HOD and Associate Professor

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

Category C*:** By Demonstrators and Residents

Teaching Staff / Human Resource of Department of Physiology

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

Contact Hours (Faculty) & Contact Hours (Students)

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

Biochemistry

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

Category A*: By HOD and APWMO with Postgraduate Qualification

Category B:** By All Senior Demonstrators

Category C*:** By All Demonstrators

Teaching Staff / Human Resource of Department of Biochemistry

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

Contact Hours (Faculty) & Contact Hours (Students)

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

Hematology and Immunity Module (First Week)
(04-08-2025 To 09-08-2025)

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignments(2HRS)
04-08-2025 Monday	**SGD/DISSECTION** Posterior Compartment of Leg & Flexor Retinaculum		**Break**	**PBL 1 (SESSION – I)** PBL Team	**PHYSIOLOGY (LGIS)** Composition of blood & Hemopoiesis – Dr Sheena (Even) Plasma Proteins – Dr. Sidra (Odd)	**Break**	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Composition of blood
05-08-2025 Tuesday	**SGD/DISSECTION** Posterior Compartment of Leg (Neurovascular Organization)			**BIOCHEMISTRY (LGIS)** Types of Hb & O2 Dissociation Curve – Dr. Kashif (Even) Heme Synthesis & Porphyria – Dr. Romessa (Odd)	**PHYSIOLOGY (LGIS)** Plasma Proteins – Dr. Sidra (Even) Composition of blood & Hemopoiesis – Dr Sheena (Odd)		Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Functions of plasma protein
06-08-2025 Wednesday	**SGD/DISSECTION** Bones of the foot			**PHYSIOLOGY (LGIS)** Stages of erythropoiesis & factors affecting erythropoiesis – Dr. Sidra (Even) WBCs classification & formation. Neutrophils, Eosinophils & Basophils and their properties – Dr Sheena (Odd)	**PHYSIOLOGY (LGIS)** WBCs classification & formation. Neutrophils, Eosinophils & Basophils and their properties – Dr Sheena (Even) Stages of erythropoiesis & factors affecting erythropoiesis – Dr. Sidra (Odd)		Practical & SGD/CBL Topics & venue mentioned at the end	SDL Biochemistry Structure of hemoglobin, Types of Hb & O2 Dissociation Curve
07-08-2025 Thursday	**PATHOLOGY (LGIS)** Mediators of inflammation Dr. Saeed (Even) / Dr. Iqbal (Odd)	**PBL 1 (SESSION – II)** PBL Team		**BIOCHEMISTRY (LGIS)** Heme Synthesis & Porphyria – Dr. Romessa (Even) Types of Hb and structure of Hb and myoglobin – Dr. Kashif (Odd)	**PHYSIOLOGY (LGIS)** Monocytes - macrophage system & lymphocytes – Prof. Dr. Samia Sarwar / Dr. Sheena (Even) Hemoglobin & Hemoglobinopathies, IronMetabolism – Dr. Sidra (Odd)		Practical & SGD/CBL Topics & venue mentioned at the end	SDL Anatomy Bones of Foot
08-08-2025 Friday	**8:00 AM – 9:00 AM** **FAMILY MEDICINE** Anemia Dr. Umer Daraz (Even) / Dr. Iqra (Odd)	**9:00 AM – 10:00AM** **QURAN TRANSLATION** Muaamlaat-3 – Mufti Naeem (Even) Muaasharat-1 – Abdul Wahid (Odd)		**10:00AM– 11:00AM** **BIOCHEMISTRY (LGIS)** Hemoglobinopathies – Dr Uzma Zafar (Even) Degradation & Jaundice – Dr. Aneela (Odd)	**11:00AM—12:00PM** **PHYSIOLOGY (LGIS)** Hemoglobin & Hemoglobinopathies, Iron Metabolism – Dr. Sidra (Even) Monocytes - macrophage system & lymphocytes – Prof. Dr. Samia Sarwar / Dr. Sheena(Odd)	Biochemistry SDL Heme Synthesis & Porphyria		
09-08-2025 Saturday	**SGD/DISSECTION** Dorsum of Foot (Muscles and Neurovascular Organization)		**Break**	**ANATOMY (LGIS)** Development of pharyngeal arches – Prof. Dr. Ayesha Yousaf (even) Development and histology of Lymph node – Dr. Mohtasham Hina (Associate prof.) (odd)	**SDL**	**Break**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Posterior Compartment of Leg

Table No. 1 (Time: 12:20pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical / Small Group Discussion

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

Topics for SGDs / CBL with Venue

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

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

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

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

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

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

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

Hematology and Immunity Module (Second Week)
(11-08-2025 To 16-08-2025)

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignments(2HRS)
11-08-2025 Monday	**SGD/DISSECTION**		**Break**	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology WBCs classification & formation. Neutrophils, Eosinophils & Basophils and their properties
	Ankle Joint (Ankle Sprain)			Development of pharyngeal arches	Development and histology of Lymph Node	Process of inflammation and Lines of defense during inflammation	Red cell fragility, ESR & Red cell indices, Anemia & polycythemia			
				Prof. Dr. Ayesha Yousaf (Odd)	Dr. Mohtasham Hina (Associate prof.) (Even)	Prof. Dr. Samia Sarwar / Dr. Sheena (Even)	Dr. Sidra (Odd)			
12-08-2025 Tuesday	**DISSECTION/CBL**			**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Monocytes -macrophage system & lymphocytes
	Joints of Foot			Hemoglobinopathies	Heme degradation & Jaundice	Red cell fragility, ESR & Red cell indices, Anemia & polycythemia	Process of inflammation and Lines of defense during inflammation			
				Dr. Uzma (Odd)	Dr. Aneela (Even)	Dr. Sidra (Even)	Prof. Dr. Samia Sarwar / Dr. Sheena (Odd)			
13-08-2025 Wednesday	**SDL**	**PBL 2 (SESSION – I)**		**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Anatomy Neurovascular organization of posterior compartment of leg
		PBL Team		Aids	Plasma proteins functions, Albumin	Fate of RBCs & Jaundice	Platelet formation & function. hemostasis, blood coagulation tests (BT, CT, PT, APTT and INR)			
				Dr. Aneel / Dr. Almas (Even)	Dr. Kashif (Odd)	Dr. Sidra (Odd)	Dr. Fareed (Even)			
14-08-2025 Thursday	**Independence Day**									
15-08-2025 Friday	Early Clinical Exposure (ECE)									
16-08-2025 Saturday	**SGD/DISSECTION**		**Break**	**BIOCHEMISTRY (LGIS)**		**PBL 2 (SESSION – II)**		**Break**	Practical & SGD/CBL Topics & venue mentioned at the end	Biochemistry SDL Plasma proteins functions, Albumin, AIDs
	Dissection			Aids	Plasma proteins functions, Albumin	PBL Team				
				Dr. Aneel / Dr. Almas (Odd)	Dr. Kashif (Even)					

Table No. 1 (Time: 12:20pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical / Small Group Discussion

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

Topics for SGDs / CBL with Venue

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

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

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

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

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

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

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

Hematology and Immunity Module (Third Week)
(18-08-2025 To 23-08-2025)

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignments(2HRS)
18-08-2025 Monday	**SGD/DISSECTION**		**B r e a k**	**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		**B r e a k**	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy joints of Foot
	Sole of Foot (Muscles)			Vit K	Haptoglobin, ceruloplasmin	Blood coagulation	Types of immunity, Physiology of innate immunity tolerance & auto immunity			
				Dr. Aneel / Dr. Almas (Even)	Dr. Kashif (Odd)	Dr. Fareed (Even)	Dr. Sidra (Odd)			
19-08-2025 Tuesday	**SGD/DISSECTION**			**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Process of inflammation and Lines of defense during inflammation
	Sole of Foot (Neurovascular Organization)			Vitamin k	Haptoglobin, ceruloplasmin	Types of immunity, Physiology of innate immunity tolerance & auto immunity	Blood coagulation			
				Dr. Aneel / Dr. Almas (Even)	Dr. Kashif (Odd)	Dr. Sidra (Even)	Dr. Fareed (Odd)			
20-08-2025 Wednesday	**SGD/DISSECTION**			**BIOMEDICAL ETHICS**		**PHYSIOLOGY (LGIS)**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Red cell fragility, ESR & Red cell indices, Anemia & polycythemia
	Dissection			Activity 1		Concept of intravascular anticoagulants and bleeding disorders (Vit K deficiency, hemophilia and thrombocytopenia)	Physiology of acquired immunity B-Cells			
						Dr. Fareed (Even)	Dr. Sidra (Odd)			
21-08-2025 Thursday	**DISSECTION / CBL**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Biochemistry Structure of hemoglobin Folic acid & Vitamin B-12
	Arches of Foot			Histology & Development of Thymus and Tonsils	Histology and Development of Spleen	Physiology of acquired immunity B-Cells	Concept of intravascular anticoagulants and bleeding disorders (Vit K deficiency, hemophilia and thrombocytopenia)			
				Dr. Mohtasham Hina (Associate prof.) (Even)	Prof. Dr. Ayesha Yousaf (Odd)	Dr. Sidra (Even)	Dr. Fareed (Odd)			

Date/Day	08:00am– 10:00am				10:00am – 11:00am		11:00am – 12:00pm				
22-08-2025 Friday	**BIOCHEMISTRY (LGIS)**		**QURAN TRANSLATION**		**PHYSIOLOGY (LGIS)**		**PHYSIOLOGY (LGIS)**		SDL Biochemistry Heme synthesis Vitamin K		
	Vitamin 9 and vitamin B12	Transferrin, ferritin	Muaamlaat-3	Muaasharat-1	Thromboembolic condition (DVT, Pulmonary Embolism, DIC) Anticoagulant therapy (Heparin, warfarin, Prevention of blood clotting outside the body)	Physiology of acquired immunity T-Cells. Allergy and Hypersensitivity reactions, Auto-immune diseases and AIDS ls. Ac	Physiology of acquired immunity T-Cells. Allergy and Hypersensitivity reactions, Auto-immune diseases and AIDS	Thromboembolic condition (DVT, Pulmonary Embolism, DIC) Anticoagulant therapy (Heparin, warfarin, Prevention of blood clotting outside the body)			
	Dr. Almas (Even)	Dr.Kashif (Odd)	Mufti Naeem (Odd)	Abdul Wahid (Even)							
					Dr. Fareed (Even)	Dr. Sidra (Odd)	Dr. Sidra (Even)	Dr. Fareed (Odd)			
23-08-2025 Saturday	**SGD/DISSECTION**				**ANATOMY(LGIS)**		**PHYSIOLOGY (LGIS)**		**B r e a k**	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Anatomy Sole of Foot Online Clinical Evaluation
	Gait cycle.				Histology & Development of Thymus and Tonsils	Histology and Development of Spleen of acquired reactions, Auto	Thromboembolic condition (DVT, Pulmonary Embolism, DIC) Anticoagulant therapy (Heparin, warfarin, Prevention of blood clotting outside the body)	Physiology of acquired immunity T-Cells. Allergy and Hypersensitivity reactions, Auto-immune diseases and AIDS			
					Dr. Mohtasham Hina (Associate prof.) (Odd)	Prof. Dr. Ayesha Yousaf (Even)	Dr. Fareed (Even)	Dr. Sidra (Odd)			

Table No. 1 (Time: 12:20pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical / Small Group Discussion

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

Topics for SGDs / CBL with Venue

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

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

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

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

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

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

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

Hematology and Immunity Module (Fourth Week)
(25-08-2025 To 30-08-2025)

Date/Day	8:00am-9:20am	9:20am – 10:10am	10:10am – 10:30am	10:30am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignments(2HRS)
25-08-2025 Monday	**SGD/DISSECTION**		Break	**BIOCHEMISTRY (LGIS)**	**PHYSIOLOGY (LGIS)**	Break	**Practical & SGD/CBL** Topics & venue mentioned at the end	SDL Anatomy Spleen
	Thymus, Tonsils and Spleen			Vitamin 9 and vitamin B12 / Transferrin, ferritin	Physiological mechanism of temperature regulation / ABO & Rh Blood grouping system			
				Dr. Aneela /Dr. Almas Odd) / Dr Kashif (Even)	Dr. Shazia (Even) / Dr. Fahad (Odd)			
26-08-2025 Tuesday	**MEDICINE (LGIS)**	**BIO MEDICAL ETHICS**	Break	**PHYSIOLOGY (LGIS)**	**PHYSIOLOGY (LGIS)**	Break	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Red cell fragility, ESR & Red cell indices, Anemia & polycythemia
	Jaundice	**(CLUB ACTIVITY 2)**		Rh Blood grouping system and Erythroblastosis fetalis / Role of Hypothalamus in temperature regulation	Role of Hypothalamus in temperature regulation / Rh Blood grouping system and Erythroblastosis fetalis			
	Dr. Umer Daraz (Even) / Dr. Iqra (Odd)			Dr. Fahad (Even) / Dr. Shazia (Odd)	Dr. Shazia (Even) / Dr. Fahad (Odd)			
27-08-2025 Wednesday	**SGD/DISSECTION**			**PHYSIOLOGY (LGIS)**	**PHYSIOLOGY (LGIS)**		Practical & SGD/CBL Topics & venue mentioned at the end	SDL Physiology Monocyte & Macrophage System
	Radiology, Surface Anatomy & Cross-Sectional Anatomy			reacti Disorders of temperature regulation (Fever, Heat stroke, Exposure of body to extreme cold) / Blood transfusion hazards. Tissue and organ transplantations	Disorders of temperature regulation (Fever, Heat stroke, Exposure of body to extreme cold) / Blood transfusion hazards. Tissue and organ transplantations			
				Dr. Shazia (Odd) / Dr. Fahad (Even)	Dr. Shazia (Even) / Dr. Fahad (Odd)			
28-08-2025 Thursday	**GYNAE OBS (LGIS)**	**PHYSIOLOGY SUPERVISED SDL)**		**JOINT SESSION OF BASIC AND CLINICAL SEICINCES**			Practical & SGD/CBL Topics & venue mentioned at the end	SDL Biochemistry Immunoglobulins, iron
	Rh incompatibility and its significance	ABO & Rh Blood grouping system		Thalasimia				
	Dr. Shama (Even) / Dr. Ruqqia (Odd)	Dr. Shazia (Odd) / Dr. Fahad (Even)						
29-08-2025 Friday	**8:00 AM – 9:00 AM**	**9:00 AM – 10:00AM**		**10:00AM– 11:00AM**	**11:00AM—12:00PM**			
	BIO MEDICAL ETHICS	**QURAN TRANSLATION**		**PHYSIOLOGY SUPERVISED SDL**	**BIOCHEMISTRY (LGIS)**	SDL Anatomy Tonsil		
	(CLUB ACTIVITY-3)	Muaasharat-2 / Muaamlaat-4		Blood transfusion hazards. Tissue and organ transplantations	Immunoglobulins / Iron			
		Abdul Wahid (Even) / Mufti Naeem (Odd)		Dr. Shazia (Even) / Dr. Fahad (Odd)	Dr. Rahat (Even) / Dr. Uzma (Odd)			
30-08-2025 Saturday	**SGD/DISSECTION**		Break	**BIOCHEMISTRY (LGIS)**	Practical & SGD// CBLof 14th August batch Topics & venue mentioned at the end	Break	Practical & SGD/CBL Topics & venue mentioned at the end	SDL Anatomy Gait Cycle Online Clinical Evaluation
	Dissection			Immunoglobulins / Iron				
				Dr. Rahat (Odd) / Dr. Uzma(Even)				

Table No. 1 (Time: 12:20pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Schedule for Practical / Small Group Discussion

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

Topics for SGDs / CBL with Venue

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

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

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

Table No. 3 Batch Distribution with Venues and Teachers Name for Problem Based Learning (PBL) Sessions & Biomedical Ethics Club Acitivity

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

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

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

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

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

Class	Module	Day & Date	Time of Assessment	Focal person	Department Responsible
First Year MBBS	Blood & Immunity Module	Monday 11th August ,2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 12th August ,2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Wednesday 13th August,2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry
		Monday 18th August,2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 19th August,2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Thursday 20th August,2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry
		Monday 25th August,2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Tuesday 26th August,2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Thursday 27th August,2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry

Hematology and Immunity Module (Fifth Week)
(01-09-2025 To 10-09-2025)

Date/time	9:00am - 12:00pm	12:00-02:00pm
01-09-2025 Monday	Module Assessment	
02-09-2025 Tuesday		
03-09-2025 Wednesday		
04-09-2025 Thursday	Block Assessment	
05-09-2025 Friday		
06-09-2025 Saturday		
08-09-2025 Monday		
09-09-2025 Tuesday		
10-09-2025 Wednesday		

Note: Timetable Subject to Change According To The Current Circumstances

(Logistic details of Assessments will be notified separately)

SECTION VII

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

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

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

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

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

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

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

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

Marks per Item

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

OSPE Time=1 Round of 40 Students =80 min

3 Round of 40 Students =240 min

OSVE=Time per student=5mins

Table of Specification for Gross OSPE

Anatomy

Block II- Lower Limb					
1	Bones and Joints of Hip and thigh Region	30%	50%	20%	3
2	Muscles and Neurovascular of Hip				3
3	Muscles and Neurovascular of Anterior and medial Compartment of Thigh				3
4	Muscles and Neurovascular of Posterior Compartment of Thigh				3
5	Bones and Joints of knee and leg				3
6	Muscles and Neurovascular of Anterior Compartment of Leg				3
7	Muscles and Neurovascular of Lateral and Posterior Compartment				3
8	Bones and Joints of ankle and Foot				3
9	Muscles and Neurovascular of Foot				3
10	Radiology of Lower Limb				3
				Total	**30**

Table of Specification for Integrated OSPE

Anatomy

Block II- MSK-II and Blood & Immunity				
Development of Musculoskeletal System, vertebral column, and limbs				3
Development of Lymphoid Organs	30%	50%	20%	3
Microscopic anatomy of muscle and skin				3
Microscopic anatomy of Lymphoid Organs				3
Practical Copy				3
			Total	15

Physiology

Block – II (MSK-II & Blood Module)							
1.	Block – II (MSK-II & Blood Module)	Determination of Total leukocyte Count (TLC)	30%	50%	20%	1 A	1
2.		Estimation of Red Blood Cell (RBC) count				1 B	1
3.		Determination of platelet count				1 C	1
4.		Determination of Differentiate leukocyte Count (DLC)				2	3
5.		Determination of ABO blood groups				3 A	1.5
6.		Determination of Rh blood groups				3 B	1.5
7.		Determination of Clotting Time (CT)				4 A	1.5
8.		Determination of Bleeding Time (BT)				4 B	1.5
9.		Recording of body temperature				5 A	1.5
10.		Demonstration of Triple response				5 B	1.5
11.		Practical notebook / sketch copy				6	3
						Total	**18**

Biochemistry

	Block – II (MSK-II & Blood Module)	**Color test for amino acids(observed)**		**90%**	**10%**	**1**	**2**
1.	Block – II (MSK-II & Blood Module)	Biuret test and ninhydrin	100%			2	2
2.		Quantitative estimation of serum total proteins				1B	1
3.		Heat coagulation	100%			2A	1
4.		Paper chromatography				2B	1
5.		Blood draw technique	100%			3	2
6.		Quantitative estimation of serum bilirubin	100%			4	2
7.		Hemin crystal					
8.		instruments		90%	10%	4	2
9.		Practical notebook		80%	20%	5	2
						Total	**10**

Annexure I

(Sample MCQ, SAQ, SEQ Papers, AV OSPE, OSPE)

Note: These sample papers aim to facilitate comprehension. However, it's important to note that the content and format of actual assessment papers may differ.

RAWALPINDI MEDICAL UNIVERSITY, RWP
ANATOMY DEPARTMENT
1st Year MBBS MCQs Module Exam (BLOOD & IMMUNITY)

1. A 21-year-old boy had a motorcycle accident. On x-ray groove in the lower surface of the cuboid bone was destroyed. Which of the following muscle tendons is most likely damaged?

a. Flexor hallucis longus
b. Peroneus brevis
c. Peroneus longus
d. Tibialis anterior
e. Tibialis posterior

Note: MCQs on USMLE Pattern

2. A professional runner without any history of trauma complaint of pain in the sole of foot and heel. The pain was aggravated during start of walk and after sitting but relieved after 5-10 minutes of activity. His condition could be due to

a. Deep infection of the foot
b. Plantar fasciitis
c. Fatigue
d. Arthritis of ankle joint
e. Sprain of the ankle joint

Note: MCQs on USMLE Pattern

3. A patient reported to hospital with the complaint of difficulty in walking and pain in the left leg. He gave history of an audible snap during a forceful push-off emergency car breaks (plantarflexion with the knee extended). It was followed immediately by sudden calf pain and dorsiflexion of the foot. He might be suffering from?

a. Calcaneal tendinitis
b. Ruptured calcaneal tendon
c. Gastrocnemius strain
d. Common peron

Note: MCQs on USMLE Pattern

4. During medical examination, students were asked to examine patient with "tarsal tunnel syndrome". Which of the following symptoms are commonly associated with this?

a. Sharp pain radiating down the front of the thigh.
b. Tingling and numbness along the lateral side of the foot.
c. Weakness during ankle joint extension
d. Burning sensation along the inner side of leg and sole of the foot.
e. Flattening of lateral arch of the foot

5. Student of first year was asked to auscultate the posterior tibial pulse during assessment. While auscultating which landmarks are important?

a. Between lateral malleolus and medial border of calcaneal tendon
b. Between medial malleolus and medial border of calcaneal tendon
c. Between lateral malleolus and lateral border of calcaneal tendon
d. Between 1st and 2nd metatarsals
e. Between 2nd and 3rd metatarsals

RAWALPINDI MEDICAL UNIVERSITY, RWP
ANATOMY DEPARTMENT
1st Year MBBS SEQs Module Exam (BLOOD & IMMUNITY)

Q. 1 .A patient presents with an enlarged spleen (splenomegaly), and a histological examination is requested to understand the underlying changes.

a. How would you assess the histological changes in the spleen associated with splenomegaly? (3)

b. What alterations might you expect in the red pulp and white pulp of the spleen in response to splenomegaly? (3)

c. How would you differentiate between reactive hyperplasia and pathological changes in the splenic tissues? (3)

Q. 2. What specific histological features would indicate the presence of an underlying disease, such as infections or hematological disorders, in the context of splenomegaly? A patient presents with swollen lymph nodes, and a biopsy is performed to investigate the cause of lymphadenopathy. The histological examination reveals atypical findings.

a. What histological features should be examined to determine the cause of lymphadenopathy? (3)

b. What specific histological changes might you expect in the lymph node if the cause of lymphadenopathy is an infection? (3)

c. How can you differentiate between reactive lymphadenopathy and malignant conditions, such as lymphoma, based on histological features? (3)

RAWALPINDI MEDICAL UNIVERSITY, RWP
PHYSIOLOGY DEPARTMENT
1st Year MBBS MCQs Module Exam (BLOOD & IMMUNITY)

1. Maintenance of blood viscosity is mainly a function of :
   a. Plasma proteins
   b. Erythocytes
   c. Thrombocytes
   d. Albumin
   e. Gamma globulins

2. The HIV virus mainly targets the immune cells which are back bone of cell mediated immunity , these cells are:
   a. B-cells
   b. Cytotoxic T cells
   c. Helper T cells
   d. Memory cells
   e. Suppressor T cells

3. A Rh-negative mother having her second pregnancy terminated because of fetal death due to Rh-incompatibility, the type of agglutinin involved in this case would be:
   a. 1gM
   b. 1gG
   c. 1gE
   d. 1gA
   e. 1gD

Note: MCQs on USMLE Pattern

4. Thalasemic children usually suffer from iron over load. Insoluble storage form of iron secondary to iron-overload is termed as:
   a. Ferritin
   b. Apoferritin
   c. Hemopexin
   d. Hemosiderin
   e. Ferroheme

Note: MCQs on USMLE Pattern

5. When blood is allowed to clot, the fluid left behind is known as :
   a. Plasma
   b. Lymph
   c. Tissue fluid
   d. Tissue gel
   e. Serum

RAWALPINDI MEDICAL UNIVERSITY, RWP
PHYSIOLOGY DEPARTMENT
1st Year MBBS SEQs Module Exam (BLOOD & IMMUNITY)

Q.1	Discuss three different causes of anemia and what is obligatory degradation of proteins and how it can be prevented?	(3,2)
Q.2	Define Immunity. What are different classifications of granulocytes (write any two). Write four causes of neutrophilia?	(1,2,2)
Q.3	Define Land Steiners Law, Secretors and non- Secretors. Write down briefly on Incompatible blood transfusion, stating two complications of incompatible blood transfusion.	(3,2)

RAWALPINDI MEDICAL UNIVERSITY, RWP
BIOCHEMISTRY DEPARTMENT
1st Year MBBS SEQs Module Exam (BLOOD & IMMUNITY)

1. Iron is transported in the body in the form of:
    a. Ferritin
    b. Hemosiderin
    c. Transferrin
    d. Hemoglobin
    e. Myoglobin

2. The normal serum value for total bilirubin is up to:
    a. 10mg/dl
    b. 5mg/dl
    c. 50mg/dl
    d. 1mg/dl
    e. 15mg/dl

3. Chocolate cyanosis is a classic presentation of
    a. Thalassemia
    b. Hemoglobin SC disease
    c. Hemoglobin C disease
    d. Sickle cell anemia
    e. Methemoglobinemia

4. Vitamin K is required for
    a. Change of prothrombin into thrombin
    b. Synthesis of prothrombin
    c. Change of fibrinogen into fibrin
    d. Formation of thromboplastin
    e. Fibrinolysis

SEQ

Q. a. Explain the functions of Albumin (2)

b. Give clinical significance of Albumin. (1)

b. Describe pathway of synthesis of heme. (2)

Types of Anemia:

A. Iron-deficiency anemia

B. Vitamin B12 deficiency anemia

C. Aplastic anemia

D. Hemolytic anemia

E. Sickle cell anemia

F. Thalassemia

Descriptions:

This type of anemia is characterized by a lack of mature red blood cells due to the bone marrow failing to produce them.

Commonly caused by inadequate intake or absorption of a crucial mineral, resulting in small and pale red blood cells.

Caused by premature destruction of red blood cells, leading to a shortage of these cells in circulation.

Occurs due to a deficiency in a key vitamin required for DNA synthesis, affecting red blood cell production and neurological function.

Inherited disorder where red blood cells become crescent-shaped and rigid, leading to blockages in blood flow and oxygen delivery.

Genetic condition resulting in reduced synthesis of hemoglobin, leading to abnormal red blood cell formation and anemia.

Matching:

Type A:

Type B:

Type C:

Type D:

Type E:

Type F:

Feel free to match them accordingly:

Type A: C (Aplastic anemia)

Type B: A (Iron-deficiency anemia)

Type C: D (Hemolytic anemia)

Type D: B (Vitamin B12 deficiency anemia)

Type E: E (Sickle cell anemia)

Type F: F (Thalassemia)

RAWALPINDI MEDICAL UNIVERSITY, RWP
BIOEHTICS DEPARTMENT
1st Year MBBS MCQs Module Exam (BLOOD & IMMUNITY)

1. ----Includes rules of conduct that may be used to regulate our activities concerning the biological world.
   a. Bio-piracy
   b. Biosafety
   c. Bioethics
   d. Bio-patents
   e. Bio-logistic

2. The right of patients having self-decision is called.
   a. Justice
   b. Autonomy
   c. Beneficence
   d. Veracity
   e. Fidelity

3. Following is not code of ethics.
   a. Integrity
   b. Objectivity
   c. Confidentiality
   d. Behaviour
   e. Autonomy

4. -------in the context of medical ethics, if it's fair and balanced
   a. Justice
   b. Autonomy
   c. Beneficence
   d. Veracity
   e. Fidelity

5. ------Principle requiring that physicians provide, positive benefits
   a. Justice
   b. Autonomy
   c. Beneficence
   d. Veracity
   e. Fidelity

Rawalpindi Medical University Department of Anatomy

Block-II OSPE 1st Year MBBS

Station No. 1 (Observed Station)

Histology sketch copy will be assessed for

a. Complete index (1)

b. Complete and signed diagrams (1)

c. 2 ID points mentioned with each diagram (1)

d. Punctuality (1)

e. Neatness (1)

Station No. 2 (Gross Anatomy)

Core Concept - Learning Domain (C2)

I. On the cadaver/model,

a. Identify Red (1)

b. Identify Yellow (1)

c. Identify Green (1)

Rawalpindi Medical University Department of Physiology

Block-II OSPE 1st Year MBBS

Station No.1 Time Allowed: 2 Minutes

a. What is the preferred dilution ratio for RBC count & platelet count? (0.5, 0.5)

b. Write the composition of Hayem's Fluid. (1)

c. How would you interpret a platelet count of 80,000 /mm^3? (1)

Station No.2 Time Allowed: 2 Minutes

a. Identify the cells labeled A & B. (0.5)

b. Points of Identification. (1.5)

c. What is the power of objective lens used for identifying the cells and how much (0.5, 0.5)
was the total magnification achieved?

Rawalpindi Medical University Department of Biochemistry
Block-II OSPE 1st Year MBBS

Station No. 2 Time Allowed: 2 Mins

Observed station

Perform Biuret test 03

Station No. 1 Time Allowed: 2 Mins

Observed Station

Perform Lead Sulfide test. 03

OSPE
DEPARTMENT OF ANATOMY

Section I: Core Concept
A. Gross Anatomy

Station No. 1 **Time Allowed: 3mins**

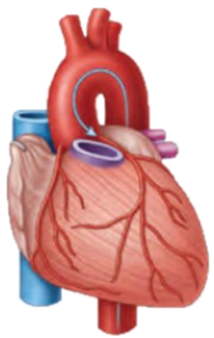
I. Identify Red on model/ cadaver (1)
II. Identify Green & name the most common artery involved in Myocardial Infarction (1)

Station No. 1 Key

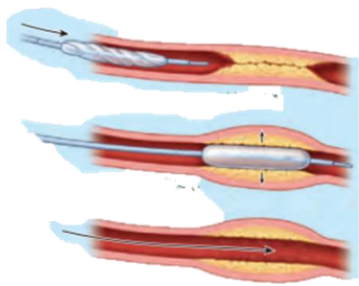
I. Coronary Sinus
II. Posterior Interventricular artery & LAD /LCA

C.Vertical Integration (Cardiology)

Station No. 15 **Time Allowed: 3mins**



Look at the picture given below



I. Identify the procedure in the given image. (0.5)
II. Name any one indication for this procedure (0.5)
III. Give 2 sites of cardiac catheterization (01)

OSPE
DEPARTMENT OF BIOCHEMISTRY

Station 1 (Core Concept - Skill Based)

Q1. What is the shape of haemin crystal? 1.5

Q2. What is the medicolegal importance of haemin crystal test? 1.5

Key Station 1 (03 Marks)

1. Rhombic shape 1.5
2. It can be used to differentiate between red stain and blood. 1.5

AV OSPE
DEPARTMENT OF ANATOMY

Slide 1

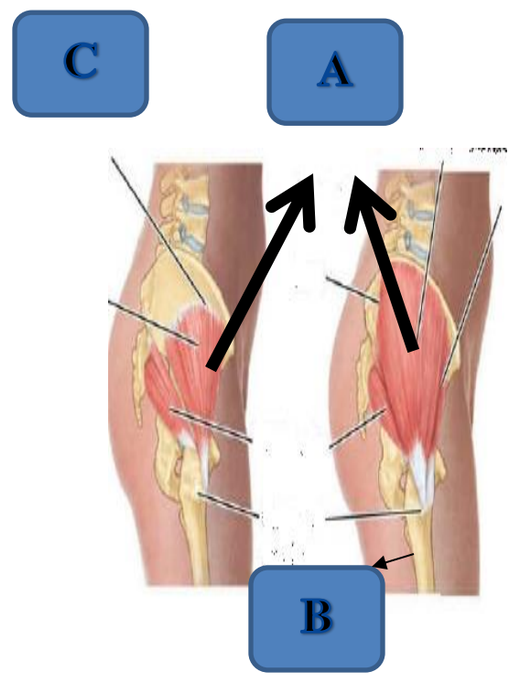
Total Marks: 05 marks

Time Allotted: 05 minutes

Requirements: Answer sheet, Pen

Objectives: _____

Gross Anatomy



I. Identify **(3)**
   A
   B
   C.
II. What is the nerve supply of structure A. **(1)**
III. Name the clinical condition which results due to paralysis of structure A. **(1)**

AV OSPE
DEPARTMENT OF ANATOMY

Slide 1

Total Marks: 05 marks

Time Allotted: 05 minutes

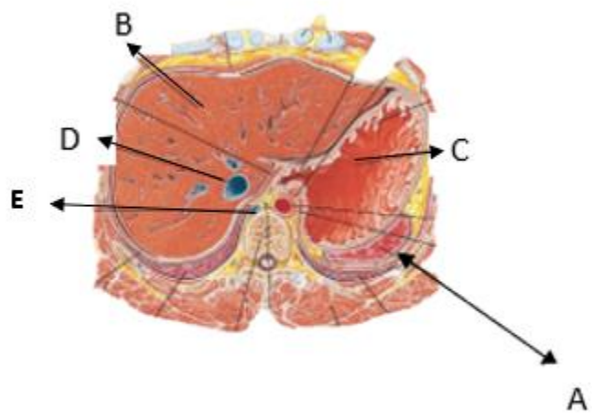
Requirements: Answer sheet, Pen

Objectives: _____

Cross Sectional Anatomy

Idetify

A
B
C
D
E



AV OSPE
DEPARTMENT OF BIOCHEMISTRY

Slide 1

Total Marks: 05 marks

Time Allotted: 05 minutes

Requirements: Answer sheet, Pen

Objectives: _____

Q1. What is the name of clinical condition shown in the above image? 01

Q2. What are different types? 01

Q3. causes of this condition. 01

Q4. Give Normal value of Serum bilirubin? 01

Q5. What is Kernicterus? 01

Integrated Clinically Oriented Modular Curriculum for First Year MBBS

CVS Module Time Table

First Year MBBS

Session 2024-2025

Batch- 52

CVS Module Team

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

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

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

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

Discipline Wise Details of Modular Content

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

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

Categorization of Modular Contents

Anatomy

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

Category A*: By Professor

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resources of Department of Anatomy

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

Contact Hours (Faculty)

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

Contact Hours (Students)

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

Physiology

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

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

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

Category A*: By HOD and Associate Professor

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

Category C*:** By Demonstrators and Residents

Teaching Staff / Human Resource of Department of Physiology

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

Contact Hours (Faculty) & Contact Hours (Students)

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

Biochemistry

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

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

Category B:** By Senior Demonstrators & APWMO

Category C*:** By All Demonstrators

Teaching Staff / Human Resource of Department of Biochemistry

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

Contact Hours (Faculty) & Contact Hours (Students)

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

First Year Timetable for CVS Module (First Week)
11-09-2024 to 17-09-2025

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
11-09-2025 Thursday	**DISSECTION/SGD**		Break	**COMMUNITY MEDICINE (LGIS)**		**PHYSIOLOGY (LGIS)**		Break	Practical &CBL Topics mentioned at the end	SDL Physiology Introduction to CVS
	Thoracic Wall / Thoracic Vertebra			Risk factors of coronary vascular disease		Introduction to CVS	Classification of Blood vessels & Biophysical considerations			
				Dr Rizwana (Even)	Dr Abdul Qadoos (Odd)	Dr Fahad (Even)	Dr. Aneela (Odd)			
Date/Day	**8:00 AM – 09:00 AM**	**09:00 AM – 10:00 AM**	**10:00 AM – 11:00 AM**			**11:00 AM – 12:00 PSM**				
12-09-2025 Friday	**QURAN TRANSLATION-I**		**QURAN TRANSLATION-II**	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		SDL Physiology Classification of Blood vessels & Biophysical considerations		
				Embryology	**General Anatomy**	Classification of Blood vessels & Biophysical considerations	Introduction to CVS			
	Muashrat-II	Mumamalat-I	Mumamalat-I	Muashrat-II	Development of Venous System	(General Organization of CVS)				
	Molana Abdul Wahid (Even)	Mufti Naeem (Odd)	Mufti Naeem (Even)	Molana Abdul Wahid (Odd)	Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even)	Prof. Dr. Saima (Odd)	Dr. Aneela (Even)	Dr Fahad (Odd)		
13-09-2025 Saturday	**BIOCHEMISTRY (LGIS)**		**MEDICINE**	Break	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		Break	Practical &CBL Topics mentioned at the end.	SDL Biochemistry Classification & functions of carbohydrates
	Introduction and classification of carbohydrates & Isomerism	Introduction and classification of lipids &Fatty acids	Overview of acute coronary syndrome & Management of heart failure & Management of shock		**General Anatomy**	**Embryology**	Heart sounds	Regulation of blood flow			
					(General Organization of CVS)	Development of Venous System					
	Dr. Kashif (Even)	Dr. Uzma Zafar/Dr. Aneela (odd)	Dr. Asad cardiologist		Prof. Dr. Saima (Even)	Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)	Dr. Uzma (Even)	Dr. Faizania (Odd)			
15-09-2025 Monday	**DISSECTION/SGD**		**BEHAVIOURAL SCIENCES**		**PBL 1 (SESSION I)**		**PHYSIOLOGY (LGIS)**			Practical &CBL Topics mentioned at the end.	SDL Biochemistry Classification & functions of lipids
	Mediastinum (General Features & Divisions)		Sociology & Health		PBL Team		Regulation of blood flow	Heart sounds			
			Dr. Mehmood Ali Khan (Even)	Dr. Mehboob Ali Shah (Odd)			Dr. Faizania (even)	Dr. Uzma (Odd)			
16-09-2025 Tuesday											
17-09-2025 Wednesday	**DISSECTION/SGD**		**BIOCHEMISTRY (LGIS)**		**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical &CBL Topics mentioned at the end.	SDl Anatomy Thoracic Vertebrae
	Dissection/Spotting		Introduction and classification of lipids &Fatty acids	Introduction and classification of carbohydrates & Isomerism	**General Anatomy**	**Embryology**	Capillary circulation, Concept of vasomotion and starling forces	Functions of veins, Venous return and factors affecting venous return			
					(Classification of vessels)	(Aortic Arches and derivatives)					
			Dr. Uzma Zafar/Dr.Aneela (Even)	Dr. Kahif (Odd)	Prof. Dr. Saima (Even)	Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)	Dr. Fahad (Even)	Dr. Kamil (Odd)			

Table No. 1 (Time: 12:20pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Topics for SGDs / CBL with Venue

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

Schedule for Practical / Small Group Discussion

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

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

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

Supervised by Prof. Dr. Ayesha Yousaf

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

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

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

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

First Year Timetable for CVS Module (Second Week)
18-09-2025 to 24-09-2025

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
18-09-2025 Thursday	**CBL/DISSECTION**		Break	**MEDICINE(LGIS)**	**PHYSIOLOGY (LGIS)**	Break	Practical &CBL Topics mentioned at the end	SDL Physiology Regulation of blood flow
	Pericardium / Cardiac tamponade			Hypertension	Functions of veins, Venous return and factors affecting venous return / Capillary circulation, Concept of vasomotion and starling forces			
				Dr. Asad cardiologist (Even)	Dr Kamil (Even) / Dr Fahad (Odd)			
Date/Day	**8:00AM – 09:00 AM**	**09:00AM – 10:00 AM**		**10:00 AM – 11:00 AM**	**11:00 AM – 12:00 PM**			
19-09-2025 Friday	**QURAN TRANSLATION -III**	**QURAN TRANSLATION -IV**		**PBL 1 (SESSION II)**	**PHYSIOLOGY (LGIS)**		SDL Physiology Introduction to ECG & its clinical importance	
	Mumamalat -II / Ekhlaqiaat-I	Ekhlaqiaat-I / Mumamalat-II		PBL Team	Introduction to ECG & its clinical importance / Cardiac output & its control, measurement of cardiac output, pathologically high and low cardiac output-I			
	Mufti Naeem (even) / Molana Abdul Wahid (Odd)	Molana Abdul Wahid (even) / Mufti Naeem (Odd)			Dr Fahd (Odd) / Dr Sidra (Even)			
20-09-2025 Saturday	**DISSECTION/SGD**		Break	**ANATOMY (LGIS)**	**PHYSIOLOGY (LGIS)**	Break	Practical &CBL Topics mentioned at the end	SDL Biochemistry Fatty acids & Simple lipids
	Heart (External Features)			**Embryology** / **General Anatomy**	Cardiac output & its control, measurement of cardiac output, pathologically high and low cardiac output-II / Introduction to ECG & its clinical importance			
				(Aortic Arches and derivatives) / (Classification of vessels)				
				Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even) / Prof. Dr. Saima (Odd)	Dr. Sidra (Odd) / Dr Fahd (Even)			
22-09-2025 Monday	**DISSECTION/SGD**			**ANATOMY (LGIS)**	**PHYSIOLOGY (LGIS)**		Practical &CBL Topics mentioned at the end	SDL Biochemistry Classification and Chemical reactions of Monosaccharides
	Heart (Clinical Correlations of Heart)			**Histology** / **Embryology**	Vectorial analysis & arrhythmias I / Cardiac cycle - I, Events of cardiac cycle and its graphical representation			
				(Arteries and Veins) / (Formation, Position and Partitioning of heart tube)				
				Assoc. Prof. Dr. Mohtasham (Even) / Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)	Dr. Fahad (even) / Dr Sidra (Odd)			
23-09-2025 Tuesday	**DISSECTION/SGD**			**BIOCHEMISTRY (LGIS)**	**PHYSIOLOGY (LGIS)**		Practical &CBL Topics mentioned at the end	SDL Anatomy Heart
	Heart (Internal Features)			Mutarotation & Monosaccharides & their chemical reaction / Simple lipids & Compound lipids	Cardiac cycle - I, Events of cardiac cycle and its graphical representation / Vectorial analysis & arrhythmias I			
				Dr. Uzma (Even) / Dr. Aneela (Odd)	Dr Sidra (even) / Dr Fahd (Odd)			
24-09-2025 Wednesday	**BEHAVIOUR SCIENCES**	**BIOCHEMISTRY (LGIS)**		**PATHOLOGY (LGIS)**	**PHYSIOLOGY (LGIS)**		Practical &CBL Topics mentioned at the end	SDL Anatomy Vassculature of Heart Online Evaluation
	Anthropology & Health	Simple lipids & Compound lipids / Mutarotation & Monosaccharides & their chemical reaction		Edema	Arrhythmias II / Cardiac cycle – II, Functions of ventricles as pumps, aortic pressure curve, regulation of heart pumping			
	Dr. Mehboob Ali Shah (Even) / Dr. Mehmood Ali Khan (Odd)	Dr. Aneela (even) / Dr Uzma (Odd)		Dr. Sara Rafi (Even) / Dr Rabia Khalid (Odd)	Dr. Fahd (Even) / Dr. Sidra (Odd)			

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)		
Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

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

Schedule for Practical / Small Group Discussion

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

Topics for SGDs / CBL with Venue

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

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

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

Supervised by Prof. Dr. Ayesha Yousaf

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

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

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

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

First Year Timetable for CVS Module (Third Week)
25-09-2025 to 01-10-2025

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
25-09-2025 Thursday	**DISSECTION/SGD**		**Break**	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical &CBL Topics mentioned at the end	SDL Physiology Regulation of BP
	Vassculature of Heart (Coarctation of Aorta)			**Embryology**	**Histology**	Cardiac cycle – II, Functions of ventricles as pumps, aortic pressure curve, regulation of heart pumping	Arrhythmias II			
				(Formation, Position and Partitioning of heart tube)	(Arteries and Veins)					
				Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even)	Assoc. Prof. Dr. Mohtasham (Odd)	Dr. Sidra (Even)	Dr. Fahd (Odd)			
Date/Day	**8:00AM – 10:00 AM**			**10:00AM – 11:00 AM**		**11:00 AM – 12:00 PM**				
26-09-2025 Friday	**DISSECTION/SGD**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		SDL Physiology Regulation of BP		
	Innervation of Heart			**Embryology**	**Histology**	ECG changes in myocardial hypertrophies, ischemic heart disease	Short term regulation of blood pressure			
				(Formation and partitioning of Ventricles)		(Capillaries)				
				Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even)		Assoc. Prof. Dr. Mohtasham (Odd)	Dr. Fahd (Even)	Prof.Dr. Samia / Dr.Kamil (Odd)		
27-09-2025 Saturday	**BIOCHEMISTRY (LGIS)**		**FAMILY MEDICINE**	**Break**	**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		**Break**	Practical &CBL Topics mentioned at the end	SDL Biochemistry Disaccharides
	Derived lipids	Disaccharides &homopolysaccharides	Approach to a patient with chest pain		**Histology**	**Embryology**	Short term regulation of blood pressure	ECG changes in myocardial hypertrophies, ischemic heart disease			
					(Capillaries)	(Formation and partitioning of Ventricles)					
	Dr. Kahif (even)	Dr. Uzma/Dr. Aneela (Odd)	Dr Sadia khan		Assoc. Prof. Dr. Mohtasham (Even)	Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)	Prof. Dr. Samia / Dr. Kamil (Even)	Dr. Fahd (Odd)			
29-09-2025 Monday	**DISSECTION/CBL**				**PHYSIOLOGY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical &CBL Topics mentioned at the end	SDL Biochemistry Compound lipids
	Superior Mediastinum (Trachea, Esophagus Ascending Aorta) (Coarctaion of Aorta)				Splanchnic circulation, cutaneous circulation	Skeletal muscle blood flow, Cardiovascular changes during exercise	Congestive cardiac failure	Long term regulation of blood pressure			
					Dr. Fareed (Even)	Dr Uzma (Odd)	Dr.Fareed (Even)	Prof..Dr. Samia / Dr. Kamil (Odd)			
30-09-2025 Tuesday	**ARTIFICIAL INTELLIGENCE**	**BIOCHEMISTRY (LGIS)**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**			Practical &CBL Topics mentioned at the end	SDL Anatomy Innervation of Heart
	Guest Lecture	Disaccharides &homopolysaccharides	Derived lipids		**Embryology**	**Histology**	Long term regulation of blood pressure	Congestive cardiac failure			
					(Fetal Circulation)	(Tunics of heart & Lyphatic System)					
	Prof. Dr. Riaz Sheikh	Dr. Uzma/Dr. Aneela (Even)	Dr. Kahif (Odd)		Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Even)	Assoc. Prof. Dr. Mohtasham (Odd)	Prof.Dr. Samia /Dr. Kamil (Even)	Dr. Fareed (Odd)			
01-10-2025 Wednesday	Early Clinical Exposure										

Table No. 1 (Time: 12:20pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Topics for SGDs / CBL with Venue

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

Schedule for Practical / Small Group Discussion

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

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

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

Supervised by Prof. Dr. Ayesha Yousaf

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

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

No PBL Session during this week

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

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

First Year Timetable for CVS Module (Fourth Week)
02-10-2025 to 08-10-2025

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
02-10-2025 Thursday	**DISSECTION/SGD** Posterior mediastinum (Contents)		**Break**	**PBL 2 (SESSION I)** PBL Team	**PHYSIOLOGY (LGIS)** Fetal circulation & cardiac abnormalities in fetal circulation / Circulatory shock Dr.Fahad (Even) / Prof. Dr. Samia Sarwar / Dr. Fareed (Odd)	**Break**	Practical &CBL Topics mentioned at the end.	SDL Anatomy Superior Mediastinum
Date/Day	**8:00AM – 09:00 AM**	**09:00AM – 10:00 AM**	**10:00 AM – 11:00 AM**		**11:00 AM – 12:00 PM**			
03-10-2025 Friday	**GYNAE & OBS (LGIS)** Cardiovascular changes in pregnancy, common cardiac diseases Dr. Sara Eijaz (Even) / Dr. Sadia Bano (Odd)	**PHYSIOLOGY (LGIS)** Skeletal muscle blood flow, Cardiovascular changes during exercise / Splanchnic circulation, cutaneous circulation Dr. Uzma (Even) / Dr. Fareed (Odd)	Practical &CBL Topics mentioned at the end **Tuesday Batch 17-09-2024**		**PHYSIOLOGY (LGIS)** Circulatory shock / Fetal circulation & cardiac abnormalities in fetal circulation Prof. Dr. Samia Sarwar / Dr. Fareed (Even) / Dr .Fahad (Odd)		SDL Physiology Vectorial analysis & arrhythmias	
04-10-2025 Saturday	**RADIOLOGY (LGIS)** Chest radiograph with perspective of cardiovascular system Dr Aniqua (Even) / Dr. Fiza (Odd)	**BIOMEDICAL CLUB ACTIVITY III** PBL Team	**ANATOMY (LGIS)** **Histology**: (Tunics of heart & Lyphatic System) — Assoc. Prof. Dr. Mohtasham (Even) **Embryology**: (Fetal Circulation) — Prof. Dr. Ayesha / Assoc Prof. Dr. Arsalan (Odd)		**PHYSIOLOGY (LGIS)** Coronary circulation, Atherosclerosis & acute coronary occlusion / Short term regulation of blood pressure Prof.Dr. Samia/ Dr. kamil (Even) / Dr. Afsheen SDL (Odd)	**Break**	Practical &CBL Topics mentioned at the end	SDL Physiology Cardiac cycle
06-10-2025 Monday	**PHARMACOLOGY** Clinical Pharmacology of Anti hypertensive drugs (Even) / (Odd)	**BIOCHEMISTRY(LGIS)** Heteropolysaccharides / Prostaglandins Dr. Kashif (even) / Dr. Aneela (Odd)	**Break**	**GYNAE & OBS (LGIS)** Hypertensive disorders in pregnancy (gestational hypertension, pre-eclampsia) Dr Amna Abbasi (Even) / Dr. Farah Deeba (Odd)	**PHYSIOLOGY (LGIS)** Short term regulation of blood pressure / Coronary circulation, Atherosclerosis & acute coronary occlusion Dr. Afsheen SDL (Even) / Prof. Dr. Samia/ Dr. Kamil (Odd)	**Break**	Practical &CBL Topics mentioned at the end	SDL Biochemistry Prostaglandins
07-10-2025 Tuesday	**DISSECTION/SGD** Posterior Mediastinum (Azygous system of Veins)			**BIOCHEMISTRY(LGIS)** Prostaglandins / Heteropolysaccharides Dr. Aneela (even) / Dr. Kashif (Odd)	**EYE LGIS** Retinal changes in hypertension Dr. Maria (Even) / Dr. Saira (Odd)		Practical &CBL Topics mentioned at the end	SDL Biochemistry Heteropoly saccharides
08-10-2025 Wednesday	**DISSECTION/SGD** Cross Sectional Anatomy / Radiology			**PBL 2 (SESSION II)** PBL Team	Practical &CBL Topics mentioned at the end **Wednesday Batch 02-10-2024**		Practical &CBL Topics mentioned at the end	SDL Anatomy Posterior Mediastinum Online ClinicalEvaluation

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Disscusion (Biochemistry and Physiology)		
Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

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

Schedule for Practical / Small Group Discussion

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

Topics for SGDs / CBL with Venue

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

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

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

Supervised by Prof. Dr. Ayesha Yousaf

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

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

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

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

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

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

Class	Module	Day & Date	Time of Assessment	Focal person	Department Responsible
First Year MBBS	CVS Module	Thursday 18-09-2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Friday 19-09-2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Saturday 20-09-2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry
		Thursday 25-09-2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Friday 26-09-2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Saturday 27-09-2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry

First Year Timetable for CVS Module (Fifth Week)
10-10-2025 to 16-10-2025

DAY/ TIME	8:00AM– 02:00pm
10-10-2025 Thursday	Assessment Week
11-10-2025 Friday	
12-10-2025 Saturday	
14-10-2025 Monday	
15-10-2025 Tuesday	
16-10-2025 Wednesday	

SECTION VII

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

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

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

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

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

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

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

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

Marks per Item

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

OSPE Time=1 Round of 40 Students =80 min

3 Round of 40 Students =240 min

OSVE=Time per student=5mins

Annexure I

(Sample MCQ, SAQ, SEQ Papers, & AV OSPE)

Note: These sample papers aim to facilitate comprehension. However, it's important to note that the content and format of actual assessment papers may differ

ANATOMY DEPARTMENT
1ST YEAR MBBS MCQS CVS MODULE EXAM

1. A medical student while studying a lung specimen noticed number of grooves on the mediastinal surface of left lung, most likely structure producing these grooves is
   a. Azygous vein
   b. Inferior vena cava
   c. Right lymphatic duct
   d. Ascending aorta
   e. Esophagus

Note: MCQs on USMLE Pattern

2. The structure of right ventricle that lodges RBB of conducting system is
   a. Supraventricular crest
   b. Septomarginal trabeculae
   c. Trabeculae carnii
   d. Septal papillary muscle
   e. Chordate tendinae

3. The direct branches of descending thoracic aorta are
   a. Inferior thyroid artery
   b. left subclavian artery
   c. Internal thoracic artery
   d. Right bronchial artery
   e. Posterior intercostals for 3-11 intercostal spaces

4. In anteroseptal wall MI the posterior 1/3rd of interventricular septum was spared because it receives its blood supply from
   a. Marginal branch of RCA
   b. Anterior descending artery
   c. Posterior descending artery
   d. Circumflex artery
   e. Diagonal artery

5. In anteroseptal wall MI the posterior 1/3rd of interventricular septum was spared because it receives its blood supply from
   a. Marginal branch of RCA
   b. Anterior descending artery
   c. Posterior descending artery
   d. Circumflex artery
   e. Diagonal artery

RAWALPINDI MEDICAL UNIVERSITY

CVS MODULE EXAMINATION

1ST YEAR MBBS

ANATOMY, SEQ'S PAPER

1. a. Give characteristic features of interior of right ventricle. (4)

   b. What is a moderator band? (2)

   c. Define sudden death syndrome. (3)

2. a. What is Secondery Heart Field (2)

   b. Discuss formation and partitioning of heart tube. (4)

   c. Enlist different types of interatrial septal defects. (3)

RAWALPINDI MEDICAL UNIVERSITY

CVS MODULE EXAMINATION
1ST YEAR MBBS
PHYSIOLOGY, MCQ PAPER

1. When the radius of resistance vessels is increased there will be increase in:
   a. Capillary blood flow
   b. Diastolic blood pressure
   c. Hematocrit
   d. Systolic blood pressure
   e. Viscosity of blood

2. Turbulence in a blood vessel is inversely proportional to the:
   a. Viscosity of blood
   b. Velocity of blood flow
   c. Diameter of the vessel
   d. Density of fluid inside the vessel
   e. Reynolds' number

3. A physiologist while teaching the concept of Starling forces directs his students with the subsequent data to calculate the net force. Pressure in the capillary in muscle= 35 mm Hg at the arteriolar end, 14 mm Hg at the venular end. The interstitial pressure= 0 mm Hg. The colloid osmotic pressure is 25 mm Hg in capillary and 1 mm Hg in interstitium. The net force producing fluid movement across the capillary wall at its arteriolar end is:
   a. 10mmHg filtration
   b. 11mmHg filtration
   c. 11mmHg reabsorption
   d. 3mmHg filtration
   e. 3mmHg reabsorption

4. In local control of blood flow the most significant regulatory mechanism is the:
   a. Release of adrenal medullary catecholamines
   b. Local concentration of metabolites
   c. Local concentration of cellular nutrients
   d. Sympathetic activation of blood vessels
   e. Sympathetic inhibition of blood vessels

Note: MCQs on USMLE Pattern

5. Neural control of circulation predominates over local control in the:
   a. Brain
   b. Heart
   c. Kidney
   d. Skeletal muscle
   e. Skin

RAWALPINDI MEDICAL UNIVERSITY

CVS MODULE EXAMINATION

1ST YEAR MBBS

PHYSIOLOGY, SEQ'S PAPER

Q.1 a. Draw and label a normal electrocardiogram. (6)

b. Give the normal duration of PR Interval, (2)

c. In which condition the PR Interval is prolonged. (1)

Q.2 a. Define cardiac output. (2)

b. Give its normal values in males and females. (1)

c. Discuss factors causing hypoeffective heart. (6)

Hypertension Physiology and Management
Instructions: Match the following options (A-E) with the descriptions or statements (1-5) below.
Options:
A. Nitric Oxide
B. Aldosterone
C. Amlodipine
D. Lifestyle Modifications
E. Angiotensin Receptor Blockers (ARBs)
Statements: -
1. This hormone increases sodium reabsorption in the kidneys, leading to increased blood volume and blood pressure.
2. Medications that block the effects of angiotensin II on blood vessels, promoting vasodilation and lowering blood pressure.
3. Important strategies including diet and exercise to manage hypertension.
4. A calcium channel blocker that relaxes blood vessels by inhibiting calcium influx into vascular smooth muscle.
5. Endogenous vasodilator released by endothelial cells that helps regulate blood pressure.
Match the options with the statements:
Answers:
A-5
B-1
C-4
D-3
E-2

1. The process of interconversion of anomeric forms of sugars is called as
   a. Fermentation
   b. Epimerism
   a. Mutarotation
   c. Ester formation
   d. Autorotation

2. The following is the dimer of glucose only
   a. Sucrose
   b. Lactose
   b. Maltose
   c. Mannose
   d. Ribose

3. The following sugar does not form the osazone crystals
   a. Lactose
   b. Maltose
   c. Glucose
   d. Fructose
   c. Sucrose

4. Cholesterol is involved in the synthesis of the following type of hormones
   a. Peptide
   d. Steroid
   b. Amine derivative
   c. Protein
   d. Glycoprotein

SEQ

Q. a. Define with examples: anomers and epimers. 03

b. Describe structure Glycolipids 03

c. Discuss functions of glycolipids. 03

CVS MODULE EXAMINATION
1ST YEAR MBBS
EMQs PAPER

A 50-year-old man arrives at the emergency department complaining of sudden chest pain that radiates to his left arm. He appears sweaty and distressed. The nurse notes his blood pressure is 160/90 mmHg, pulse is 100 bpm, and respiratory rate is 22/min. An ECG shows ST-segment elevation in leads II, III, and aVF.

Match the types of heart conditions with their descriptions:

Types of Heart Conditions:

A. STEMI (ST-Elevation Myocardial Infarction)

B. NSTEMI (Non-ST-Elevation Myocardial Infarction)

C. Unstable angina

D. Stable angina

E. Coronary artery spasm

Descriptions:

This condition is characterized by ST-segment elevation on the ECG, indicating a complete blockage of a coronary artery and heart muscle damage.

This condition typically presents with elevated cardiac enzymes and may show ECG changes like ST-segment depression or T-wave inversion, indicating partial blockage of a coronary artery.

Chest pain caused by reduced blood flow to the heart muscle but does not result in permanent damage or elevated cardiac enzymes.

Chest pain due to transient narrowing of coronary arteries, often unrelated to physical exertion or emotional stress.

Chest pain that occurs predictably during physical exertion or stress and resolves with rest or medication.

Matching:

Type A:

Type B:

Type C:

Type D:

Type E:

1. ----Includes rules of conduct that may be used to regulate our activities concerning the biological world.

a. Bio-piracy
b. Biosafety
c. Bioethics
d. Bio-patents
e. Bio-logistic

2. The right of patients having self-decision is called.

a. Justice
b. Autonomy
c. Beneficence
d. Veracity
e. Fidelity

3. Following is not code of ethics.

a. Integrity
b. Objectivity
c. Confidentiality
d. Behaviour
e. Autonomy

4. -------in the context of medical ethics, if it's fair and balanced

a. Justice
b. Autonomy
c. Beneficence
d. Veracity
e. Fidelity

5. ------Principle requiring that physicians provide, positive benefits

a. Justice
b. Autonomy
c. Beneficence
d. Veracity
e. Fidelity

AV OSPE
DEPARTMENT OF ANATOMY

Slide 1

Total Marks: 05 marks

Time Allotted: 05 minutes

Requirements: Answer sheet, Pen

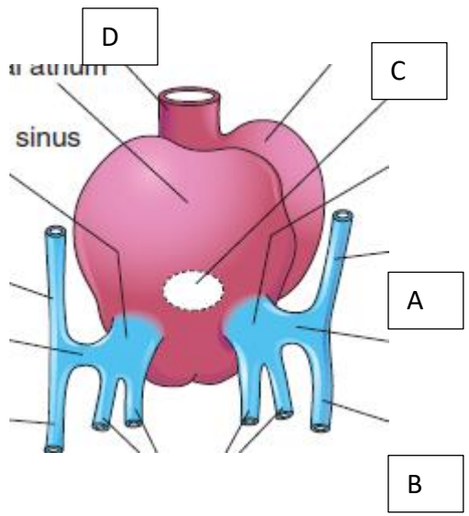
Objectives: _____

Section I: Core Concept
B. Embryology

Slide No. 1

I. Identify on the image
   - A (1)
   - B (1)
   - C (1)
   - D (1)

II. What is fate of structure 'B' (1)



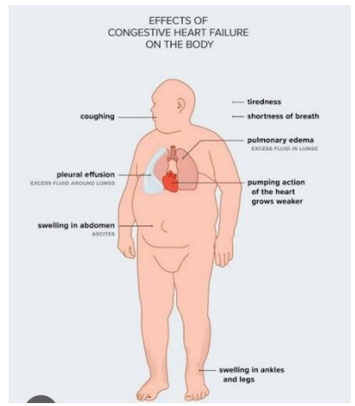
Slide 1

Total Marks: 05 marks

Time Allotted: 05 minutes

Requirements: Answer sheet, Pen

Objectives: _____



Q 1 What could be possible cause of this illness (1)

Q 2. Explain pathophysiology of right sided heart failure (1)

Q3. Explain Pathophysiology of left sided heart failure (1)

Q4. What is Ejection Fraction (1)

Q5. What are Symtopms of right sided heart failure. (1)

DEPARTMENT OF BIOCHEMISTRY

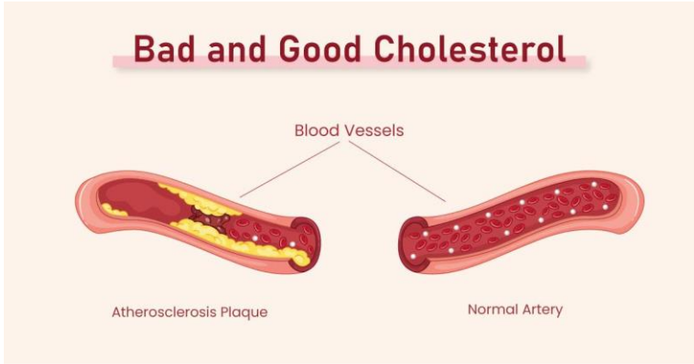
Slide 1

Total Marks: 05 marks

Time Allotted: 05 minutes

Requirements: Answer sheet, Pen

Objectives: _____



a. What is good and bad cholesterol? (1)

b. Briefly discuss the structure of cholesterol. (1)

c. What is normal range of plasma cholesterol. (1)

d. What is the most important carrier of cholesterol in Plasma (1)

e. How is plasma cholesterol level lowered. (1)

Integrated Clinically Oriented Modular Curriculum for First Year MBBS

Respiration Module Time Table

First Year MBBS

Session 2024-2025

Batch- 52

Respiration Module Team

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

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

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

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

Discipline Wise Details of Modular Content

Block	Module	General Anatomy	Embryology	Histology	Gross Anatomy
III	• Anatomy	•	• Development of RespiratorySystem	• Microscopic Anatomy of Upper & Lower • Respiratory System	• Gross Anatomy of Upper & Lower Respiratory System
	• Biochemistry	• pH, Electron transport chain, Oxidative phosphorylation, Water soluble vitamins riboflavin, biotin, pyridoxine, pantothenic acid, Normal acid base regulation			
	• Physiology	• Pulmonary Ventilation, Pulmonary Volumes and Capacities, Alveolar Ventilation, Functions of the Respiratory Passageways • Pulmonary Circulation, Pulmonary Edema, Physical Principles of Gas Exchange; Diffusion of Oxygen and Carbon Dioxide Through the Respiratory Membrane Transport of Oxygen and Carbon Dioxide in Blood and Tissue Fluids • Regulation of Respiration • Useful Methods for Studying Respiratory Abnormalities, Respiratory Insufficiency, Hypoxia & Oxygen Therapy, Hypercapnia & Artificial Respiration Respiratory changes during Exercise, Aviation, Space & Deep-Sea Diving Physiology			
	Spiral Courses				
	• The Holy Quran Translation	• Immaniat- V & VI • Ibaadat-V			
	• Family Medicine	• Approach to a patient with cough hemoptysis & shortness of breath			
	• Behavioral Sciences	• Personality development and theories			
	Vertical Integration				
	• Medicine	• Tuberculosis			
	• Pathology	• Clinical disorders of Respiration			
	• ENT	• Foreign body nose & ear &Tonsillitis			
	• Community Medicine	• Smoking • Prevention and control of Tuberculosis			
	Early Clinical Exposure (ECE)				
	• Medicine	• Dyspnea Observe/see patients			
		• Cyanosis & see Asthma case COPD cases • Tuberculosis cases with fibrosis of lungs			
	• Surgery	• See cases of Flail chest & Pneumothorax • Chest intubation			

	• Radiology	• Radiology of chest • Chest X-ray at different level with reference to Anatomy and Pathologies

Categorization of Modular Contents

Anatomy

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

Category A*: By Professor

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Anatomy

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

Contact Hours (Faculty)

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

Contact Hours (Students)

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

Physiology

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

Category A*: By Professor

Category B:** By Associate & Assistant Professors

Category C*:** By Senior Demonstrators & Demonstrators

Teaching Staff / Human Resource of Department of Physiology

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

Contact Hours (Faculty) & Contact Hours (Students)

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

Biochemistry

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

Category A*: By HOD and Assistant Professor

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

Category C*:** (By All Demonstrators)

Teaching Staff / Human Resource of Department of Biochemistry

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

Contact Hours (Faculty) & Contact Hours (Students)

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

First Year Timetable for Respiratory Module (First Week)
17-10-2025 To 23-10-2025

Date/Day	8:00AM – 09:00 AM	09:00AM – 10:00 AM	10:00 AM – 11:00 AM		11:00AM – 12:00 PM		Home Assignment
17-10-2025 Friday	**MEDICINE (LGIS)**	**PBL 1 (SESSION I)**	**ANATOMY (LGIS)**		**PHYSIOLOGY(LGIS)**		SDL Physiology Mechanics of pulmonary ventilation, Lung Compliance
	Tuberculosis	PBL Team	Development of Nose & Paranasal sinuses	Histology of Respiratory System I	Mechanics of pulmonary ventilation, Lung compliance	Pulmonary circulation & Pulmonary capillary dynamics. Physical principles of gas exchange & diffusion through respiratory membrane	
	Dr. Sana (Odd) / Dr. Sara (Even)		Prof. Dr. Ayesha Yousaf (Even)	Assoct. Prof . Dr Mohtasham (Odd)	Dr. Faizania (Even)	Dr. Kamil (Odd)	

Date/Day	8:00am – 09:00am	09:00am – 10:00am	10:00am – 10:20am	10:20am-11:20am		11:20am-12:10pm		12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
18-10-2025 Saturday	**DISSECTION SGD**			**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY(LGIS)**				
	Nose and Paranasal sinuses			PH, PKa, Henderson-Hasselbalch equation	Electron transport chain	Pulmonary circulation & Pulmonary capillary dynamics Physical principles of gas exchange& diffusion through respiratory membrane	Mechanics of pulmonary ventilation Lung compliance		Practical & CBL Topics & venue mentioned at the end	SDL Anatomy Skeleton of thoracic wall
				Dr Uzma Zafar (Even)	Dr. Aneela Jamil (Odd)	Dr. Kamil (Even)	Dr. Faizania (Odd)			
20-10-2025 Monday	**DISSECTION/SGD**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**				
	Larynx and Trachea			Histology of Respiratorysystem1	Development of Nose & Paranasal sinuses	Transport of oxygen	Pulmonary volumes, capacities& functions of respiratory tract		Practical & CBL Topics & venue mentioned at the end	SDL Biochemistry role of buffers in pH regulation HH equation
				Assoct. Prof. Dr Mohtasham (Even)	Prof. Dr. Ayesha (Odd)	Prof. Dr. Samia / Dr. Sheena (Odd)	Dr. Faizania (even)			
21-10-2025 Tuesday	**DISSECTION/SGD**			**PHYSIOLOGY (LGIS)**		**ANATOMY (LGIS)**				
	Overview of thoracic wall			Pulmonary volumes, capacities & functions of respiratory tract	Transport of oxygen	Histology of Respiratorysystem1	Development of Nose & Paranasal sinuses		Practical & CBL Topics & venue mentioned at the end	SDL AI Artificial Intelligence basic concepts
				Dr. Faizania (Odd)	Prof. Dr. Samia / Dr. Sheena (even)	Assoct. Prof. Dr Mohtasham (Even)	Prof. Dr. Ayesha (Odd)			
22-10-2025 Wednesday	**DISSECTION/SGD**			**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**				
	Skeleton of thoracic wall (Ribs)			Histology of Respiratory system II	Development of Trachea and Larynx	Oxygen hemoglobin dissociation curve	Ventilation perfusion ratio		Practical & CBL Topics & venue mentioned at the end	SDL Anatomy Noseparanasal sinus larynx and trachea
				Assoct. Prof. Dr. Mohtashim (Odd)	Prof. Dr. Ayesha (Even)	Prof. Dr. Samia / Dr. Sheena (even)	Dr. Nayab (Odd)			
23-10-2025 Thursday	**DISSECTION SGD**	**ENT (LGIS)**		**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**				
	Joints of Thoracic Wall	Foreign body nose & ear &Tonsillitis		Oxidative phosphorylation	Normal pH regulation by buffers	Ventilation perfusion ratio	Oxygen hemoglobin dissociation curve		Practical & CBL Topics & venue mentioned at the end	SDL Physiology Pulmonary circulation
		Dr. Sundus (Even) / Dr. Arshad (Odd)		Dr. Aneela Jamil (Even)	Dr. Khalid (Odd)	Dr. Nayab (even)	Prof. Dr. Samia / Dr. Sheena (Odd)			

Break

Table No. 1 (Time: 12:20pm – 02:00pm)

Batch Distribution for Practical Skills (all subjects) CBL / Small Group Discussion (Biochemistry and Physiology)		
Sr. No	Batch	Roll No.
1.	A	01-70
2.	B	71-140
3.	C	141-210
4.	D	211-280
5.	E	281-onwards

Topics for Skill Lab with Venue

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

Topics for SGDs / CBL with Venue

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

Schedule for Practical / Small Group Discussion

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

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

Batches	**Roll No**	**Anatomy Teacher**	**Venue**
A	01-50	Dr Sana	Anatomy Museum
B	51-100	Dr Maryam	New Lecture Theatre Complex No.1
C	101-150	Dr Summya	New Lecture Theatre Complex No.2
D	151- 200	Dr Tayyaba	New Lecture Theatre Complex No.3
E	201- 250	Dr. Zeanera Saqib	New Lecture Theatre Complex No.4
F	251-300	Dr. Qurat ul Ain	Anatomy Lecture Theatre 4
G	301-onwards	Dr. Sajjad	Anatomy Lecture Theatre 3

Supervised by Prof. Dr. Ayesha Yousaf

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

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

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

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

First Year Timetable for Respiratory Module (Second Week)
24-10-2025 To 30-10-2025

Date/Day	8:00AM – 09:00 AM	09:00AM – 10:00 AM	10:00 AM – 11:00 AM	11:00AM – 12:00 PM	Home Assignment
24-10-2025 Friday	**QURAN TRANSLATION – I** Immaniat- V & VI / Ibaadat-V Mufti Naeem Sherazi (Even) / Molana Abdul Wahid (Odd)	**PBL 1 (SESSION II)** PBL Team	**ANATOMY (LGIS)** Development of Trachea and Larynx / Histology of Respiratory system II Prof. Dr. Ayesha (Odd) / Assoct. Prof. Dr. Mohtashim (Even)	**PHYSIOLOGY (LGIS)** Transport of CO_2 / Lung function test Prof. Dr. Samia / Dr. Iqra (even) / Dr. Faizania (Odd)	SDL Physiology Lungvolumes and capacities

Date/Day	8:00am – 09:00am	09:00 AM – 10:00am	10:00am – 10:20am	10:20am-11:20am	11:20am-12:10pm	12:10pm-12:30pm	12:30pm – 2:00pm	Home Assignment
25-10-2025 Saturday	**DISSECTION/SGD** Thoracic Apertures		Break	**BIOCHEMISTRY (LGIS)** Normal pH regulation by buffers / Oxidative phosphorylation Dr. Khalid (Even) / Dr. Aneela Jamil (Odd)	**PHYSIOLOGY (LGIS)** Lung functiontest / Transport of CO_2 Dr. Faizania (even) / Prof. Dr. Samia / Dr. Iqra (Odd)	Break	Practical & CBL Topics & venue mentioned at the end	SDL Physiology Transport ofOxygen
27-10-2025 Monday	**DISSECTION/SGD** Movements of Thoracic Wall & Intercostal Spaces			**ANATOMY (LGIS)** Histology of Respiratory system III / Development ofLungs Assoct. Prof. Dr. Mohtashim (Even) / Prof. Dr. Ayesha (Odd)	**PHYSIOLOGY LGIS** Respiratory abnormalities / Nervous regulationof respiration Dr. Faizania(Even) / Prof. Dr. Samia / Dr. Kamil (Odd)		Practical & CBLTopics & venue mentioned at theend	SDL Biochemistry Role of buffers (chemical and physiological)
28-10-2025 Tuesday	**DISSECTION/SGD** Diaphragm	**COMMUNITY MEDICINE** Smoking Dr. Rizwana(Odd) / Dr. Asif (Even)		**ANATOMY (LGIS)** Development ofLungs / Histology of Respiratory system III Prof. Dr. Ayesha (Even) / Assoct. Prof. Dr. Mohtashim(Odd)	**PHYSIOLOGY LGIS** Nervous regulationof respiration / Respiratory abnormalities Prof. Dr. Samia / Dr. Kamil (Even) / Dr. Faizania (Odd)		Practical & CBLTopics & venue mentioned at theend	SDL BiochemistrypH meter and body buffers
29-10-2025 Wednesday	**DISSECTION/SGD** Diaphragm			**ANATOMY (LGIS)** Development of Diaphragm / Histology of Respiratory system IV Prof. Dr. Ayesha (Even) / Assoct. Prof. Dr. Mohtashim (Odd)	**PHYSIOLOGY LGIS** Hypoxia, hypercapnia,cyanosis / Chemical regulation of respiration & exercise changes Dr. Nayab (Even) / Prof. Dr. Samia /Dr. Kamil (Odd)		Practical & CBLTopics & venue mentioned at theend	SDL Anatomy Movement of Thoracic Wall & Intercostal Spaces Online SDL Evaluation
30-10-2025 Thursday	**DISSECTION/SGD** Vasculature of thoracic wall			**FAMILY MEDICINE (LGIS)** Approach to a patient with cough hemoptysis& shortness of breath Dr. Sidra Hamid (Even) / Dr. Sadia Khan (Odd)	**PHYSIOLOGY (LGIS)** Chemical regulation ofrespiration & exercise changes / Hypoxia, hypercapnia,cyanosis Prof. Dr. Samia / Dr. Kamil(Even) / Dr. Nayab (Odd)		Practical & CBLTopics & venue mentioned at theend	SDL Physiology Chemical regulation ofrespiration & exercise changes

Table No. 1 (Time: 12:20pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

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

Topics for SGDs / CBL with Venue

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

Schedule for Practical / Small Group Discussion

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

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

Batches	Roll No	Anatomy Teacher	Venue
A	01-50	Dr Sana	Anatomy Museum
B	51-100	Dr Maryam	New Lecture Theatre Complex No.1
C	101-150	Dr Summya	New Lecture Theatre Complex No.2
D	151- 200	Dr Tayyaba	New Lecture Theatre Complex No.3
E	201- 250	Dr. Zeanera Saqib	New Lecture Theatre Complex No.4
F	251-300	Dr. Qurat ul Ain	Anatomy Lecture Theatre 4
G	301-onwards	Dr. Sajjad	Anatomy Lecture Theatre 3

Supervised by Prof. Dr. Ayesha Yousaf

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

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

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

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

First Year Timetable for Respiratory Module (Third Week)
31-10-2025 To 06-11-2025

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 10:00 AM		10:00 AM – 11:00 AM		11:00AM – 12:00 PM		Home Assignment
31-10-2025 Friday	Early Clinical Exposure (ECE)							
	8:00AM – 09:00 AM	**09:00AM – 10:00 AM**	**10:00am – 10:20am**	**10:20am-11:20am**		**11:20am-12:10pm**	**12:10pm-12:30pm**	**12:30pm –2:00pm**	**Home Assignment**
01-11-2025 Saturday	**JOINT SESSION**	**PBL 2 (SESSION I)**		**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		Practical & CBL Topics & venue mentioned at theend	SDL Physiology Hypoxia hypercapnia, cyanosis ology
	Respiratory DistressSyndrome	` PBL Team		Histology of Respiratory system IV	Development of Diaphragm	Hypoxia, hypercapnia, cyanosis	Chemical regulation of respiration & exercise changes		
	Anatomy, Physiology, Biochemistry, Peads &Medicine			Assoct. Prof. Dr. Mohtashim(Even)	Prof. Dr. Ayesha(Odd)	Dr. Faizania (Even)	Prof. Dr. Samia /Dr. Kamil(Odd)		
03-11-2025 Monday	**DISSECTION/SGD**			**BEHAVIOUR SCIENCES**		**PHYSIOLOGY (LGIS)**		Practical & CBL Topics & venue mentioned at theend	SDL Biochemistry Pyridoxine
	Diaphragm			Personality development and theories		Space physiology	Miscellaneous factors affecting respiration (concept of voluntary control of respiration, lung J receptor, brain edema, anesthesia, chyne stokes breathing, sleep apnea		
				Dr Muhammad Azeem Rao		Dr. Fareed (Even)	Prof. Dr Samia / Dr. Kamil (Odd)		
04-11-2025 Tuesday	**DISSECTION/SGD**	**PATHOLOGY**		**ANATOMY (LGIS)**		**PHYSIOLOGY (LGIS)**		Practical & CBL Topics & venue mentioned at the end	SDL Biochemistry Xenobiotic
	Innervation of Thoracic Wall	Clinical disorders of Respiration		Thoracic Radiology		Miscellaneous factors affecting respiration (concept of voluntary control of respiration, lung J receptor, brain edema, anesthesia, chyne stokes breathing, sleep apnea	Space physiology		
		Dr. Sara(Even)	Dr. Aasia(Odd)	Dr. Minahil Haq		Prof. Dr Samia / Dr. Kamil (Even)	Dr. Fareed (Odd)		
05-11-2025 Wednesday	**DISSECTION/SGD**	**PBL 2 (SESSION II)**		**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		Practical & CBL Topics & venue mentioned at theend	SDL Anatomy Of diaphragm
	Pleura	PBL Team		Pyridoxin Pant ethnic acid biotin & Riboflavin	Xenobiotics	Deep sea physiology	High Altitude Physiology		
				Dr. Almas (Even)	Dr. Uzma Zafar (Odd)	Prof. Dr. Samia /Dr. Nayyab (even)	Prof. Dr. Samia / Dr. Fareed (Odd)		
06-11-2025 Thursday	**DISSECTION/SGD**	**COMMUNITY MEDICINE**		**BIOCHEMISTRY (LGIS)**		**PHYSIOLOGY (LGIS)**		Practical & CBL Topics & venue mentioned at the end	SDL Anatomy Lungs Online Clinical Evaluation
	Lungs	Prevention and control of Tuberculosis		Xenobiotics	Pyridoxin &Pantothenic acid biotin &Rib of Lavin	High Altitude Physiology	\Deep sea physiology		
		Dr. Rizwana (Odd)	Dr. Asif (Even)			Prof. Dr. Samia /Dr. Fareed (even)	Prof. Dr. Samia /Dr. Nayyab (Odd)		
				Dr. Uzma Zafar(even)	Dr. Almas (Odd)				

Break | **Break**

Table No. 1 (Time: 12:20pm – 02:00pm)

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

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

Topics for Skill Lab with Venue

- Lungs (Anatomy/ Histology- Lungs (Anatomy/ Histology- practical) venue Histology Laboratory (Dr. Kashif)
- Sample Preparation of Buffer Solution (Biochemistry practical) venue- Biochemistry Laboratory
- Clinical examination of chest for respiration (Physiology –practical) Physiology Laboratory

Topics for SGDs / CBL with Venue

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

Schedule for Practical / Small Group Discussion

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

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

Batches	Roll No	Anatomy Teacher	Venue
A	01-50	Dr Sana	Anatomy Museum
B	51-100	Dr Maryam	New Lecture Theatre Complex No.1
C	101-150	Dr Summya	New Lecture Theatre Complex No.2
D	151- 200	Dr Tayyaba	New Lecture Theatre Complex No.3
E	201- 250	Dr. Zeanera Saqib	New Lecture Theatre Complex No.4
F	251-300	Dr. Qurat ul Ain	Anatomy Lecture Theatre 4
G	301-onwards	Dr. Sajjad	Anatomy Lecture Theatre 3

Supervised by Prof. Dr. Ayesha Yousaf

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

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

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

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

Tentative Schedule for LMS Based Weekly Online Assessments for First Year MBBS (Respiratory Module) Batch 51

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

Class	Module	Day & Date	Time of Assessment	Focal person	Department Responsible
First Year MBBS	Respiratory Module	Friday 24th October,2025	7:00 pm-7:30pm	Prof. Dr Ayesha Yousaf	Anatomy
		Saturday 25th October,2025	7:00 pm-7:30pm	Prof. Dr Samia Sarwar	Physiology
		Monday 27th October,2025	7:00 pm-7:30pm	Dr Aneela Jamil	Biochemistry

Note: All dates are subject to change.

First Year Timetable for Respiratory Module (Fourth Week)
10-11-2025 To 19-11-2025

DAY/ TIME	8:00AM-9:00AM
10-11-2025 Monday	Assessment Week
11-11-2025 Tuesday	
12-11-2025 Wednesday	
13-11-2025 Thursday	
14-11-2025 Friday	
15-11-2025 Saturday	
16-11-2025 Monday	Block Assessment
17-11-2025 Tuesday	
18-11-2025 Wednesday	

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

SECTION VII

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

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

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

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

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

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

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

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

Marks per Item

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

OSPE Time=1 Round of 40 Students =80 min

3 Round of 40 Students =240 min

OSVE=Time per student=5mins

Annexure-I

(Sample MCQ, EMQ, SAQ, SEQ, OSPE, AV OSPE & Video Assisted Quiz Papers)

Note: These sample papers aim to facilitate comprehension. However, it's important to note that the content and format of actual assessment papers may differ.

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

1. Radiographic examination of a patient with insufficient breathing movements reveals permanent elevation and paradoxical movement of one half of the diaphragm, most likely reason is
   a. Irritation of diaphragm bilaterally
   b. Unilateral damage of phrenic nerve
   c. Injury to intercostal nerves on one side
   d. Vagal stimulation
   e. Damage to respiratory center

Note: MCQs on USMLE Pattern

2. Lymphatics from the back of thoracic wall drains into
   a. posterior intercostal nodes
   b. internal mammary nodes
   c. anterior intercostal nodes
   d. pectoral nodes
   e. subdiaphragmatic node

3. Type I Pneumocytes covering approximately 95% of the alveolar surface are
   a. Source of surfactant
   b. Squamous & Thin
   c. Having microvilli at apical surface
   d. Joined with neighboring cells by adhering junctions
   e. Also called dust cells

4. A 60 years old man presented to OPD with edema of lower limbs, on investigations there is obstruction of the inferior vena cava, alternative pathway to return of blood to right atrium is provided by
   a. Azygos vein
   b. Inferior hemiazygos vein
   c. Superior hemiazygos vein
   d. Right subcostal vein
   e. Internal thoracic vein

Note: MCQs on USMLE Pattern

5. Non-ciliated dome shaped cells with apical ends bulging due to secretory granules; also involved in producing protein content of surfactants in the lining of bronchioles are
   a. Type I pneumocytes
   b. Type II pneumocytes
   c. Clara cells
   d. Brush cells
   e. Goblet cells

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

1. A person sustained multiple rib fractures in a road traffic accident. After this he developed a flail chest.

a. What is the movement of chest wall in this condition? (3)

b. Explain pump handle movement of chest wall. (3)

c. Give contents of intercostal space. (3)

2. a. Give characteristic features of interior of right ventricle. (3)

b. What is a moderator band? (3)

c. Define sudden death syndrome. (3)

3. Discuss partitioning of heart tube. (3)

b. Enlist different types of inter atrial septal defects. (3)

c. Discuss formation of heart tube (3)

4. a. Discuss characteristic features of sinusoidal capillaries. (3)

b. Draw and label elastic artery. (3)

c. Give location and function of type II pneumocytes. (3)

RAWALPINDI MEDICAL UNIVERSITY

PHYSIOLOGY DEPARTMENT

1ST YEAR MBBS MCQs RESPIRATORY MODULE EXAM

1. When the radius of resistance vessels is increased there will be increase in:
   a. Capillary blood flow
   b. Diastolic blood pressure
   c. Hematocrit
   d. Systolic blood pressure
   e. Viscosity of blood

2. Turbulence in a blood vessel is inversely proportional to the :
   a. Viscosity of blood
   b. Velocity of blood flow
   c. Diameter of the vessel
   d. Density of fluid inside the vessel
   e. Reynolds' number

3. A physiologist while teaching the concept of Starling forces directs his students with the subsequent data to calculate the net force. Pressure in the capillary in muscle= 35 mm Hg at the arteriolar end, 14 mm Hg at the venular end. The interstitial pressure= 0 mm Hg.The colloid osmotic pressure is 25 mm Hg in capillary and 1 mm Hg in interstitium. The net force producing fluid movement across the capillary wall at its arteriolar end is:
   a. 10mmHg filtration
   b. 11mmHg filtration
   c. 11mmHg reabsorption
   d. 3mmHg filtration
   e. 3mmHg reabsorption

   Note: MCQs on USMLE Pattern

4. In local control of blood flow the most significant regulatory mechanism is the :
   a. Release of adrenal medullary catecholamines
   b. Local concentration of metabolites
   c. Local concentration of cellular nutrients
   d. Sympathetic activation of blood vessels
   e. Sympathetic inhibition of blood vessels

5. Neural control of circulation predominates over local control in the :
   a. Brain
   b. Heart
   c. Kidney
   d. Skeletal muscle
   e. Skin

RAWALPINDI MEDICAL UNIVERSITY

PHYSIOLOGY DEPARTMENT

1ST YEAR MBBS SEQs RESPIRATORY MODULE EXAM

Q3 A 50-year-old smoker progressively developed dyspnea and cough over a few months. After clinical examination and lung function tests he was diagnosed to be suffering from pulmonary emphysema.

a. How ventilation perfusion ratio will be altered in this patient? (5)

b. Enumerate the muscles that elevate the chest cage during inspiration (2)

c. What is flial chest (2)

Q.4 a. Discuss functional residual capacity in detail: (5)

b. Give normal values of vital capacity with its physiological role. (2)

c. Describe pathophysiology of Asthma (2)

RAWALPINDI MEDICAL UNIVERSITY

BIOCHEMISTRY DEPARTMENT

1ST YEAR MBBS MCQs RESPIRATORY MODULE EXAM

1. Buffer has maximum buffering capacity when

a. pH is acidic
b. pH <pKa
a. pH = pKa
c. pH >pKa
d. pH is alkaline

2. NAD is the coenzyme in the following type of chemical reactions

a. Carboxylation
b. Phosphorylation
c. Decarboxylation
b. Oxidation – reduction
d. Transamination

3. The following complex of electron transport chain is inhibited by Antimycin A

a. Complex I
b. Complex II
c. Complex III
c. Complex IV
d. Complex V

4. Following complex of electron transport chain contains copper:

a. Complex I
b. Complex II
c. Complex III
d. Complex IV
d. Complex V

RAWALPINDI MEDICAL UNIVERSITY
Sample Paper of EMQ

A 68-year-old woman presents to the emergency department with a productive cough, fever (temperature of 101°F), and shortness of breath. She has a history of chronic obstructive pulmonary disease (COPD) and diabetes mellitus. On examination, she appears dyspneic with decreased breath sounds and crackles on auscultation of her left lung base. Chest X-ray reveals consolidation in the left lower lobe.

Match the following types of pneumonia with their corresponding descriptions:

Types of Pneumonia:

A. Community-acquired pneumonia (CAP)

B. Hospital-acquired pneumonia (HAP)

C. Aspiration pneumonia

D. Viral pneumonia

Descriptions:

Pneumonia acquired outside of a healthcare setting, typically presenting with sudden onset of symptoms including fever, cough, and dyspnea.

Occurs in patients hospitalized for at least 48 hours, often associated with more resistant bacteria and higher risk of complications.

Results from inhalation of oral or gastric contents into the lungs, commonly seen in patients with impaired swallowing or altered consciousness.

Caused by viral pathogens such as influenza or respiratory syncytial virus (RSV), often presenting with more gradual onset of symptoms and less severe illness in healthy individuals.

Matching:

Type A:

Type B:

Type C:

Type D

RAWALPINDI MEDICAL UNIVERSITY

1ST YEAR MBBS BIOETHICS MCQs EXAM

1-----Includes rules of conduct that may be used to regulate our activities concerning the biological world.

a. Bio-piracy
b. Biosafety
c. Bioethics
d. Bio-patents
e. Bio-logistic

2. The right of patients having self-decision is called.

a. Justice
b. Autonomy
c. Beneficence
d. Veracity
e. Fidelity

3. Following is not code of ethics.

a. Integrity
b. Objectivity
c. Confidentiality
d. Behavior
e. Autonomy

4-------- in the context of medical ethics, if it's fair and balanced

a. Justice
b. Autonomy
c. Beneficence
d. Veracity
e. Fidelity

5-------Principle requiring that physicians provide, positive benefits

a. Justice
b. Autonomy
c. Beneficence
d. Veracity
e. Fidelity

Rawalpindi Medical University
Department of Anatomy
Block-III OSPE 1st Year MBBS

For Candidate: **Station No. 1** Time Allowed: 1 Min 30secs

Histology sketch copy will be assessed for

a. Complete index (1)

b. Complete and signed diagrams (1)

c. 2 ID points mentioned with each diagram (1)

Station No. 2

For Candidate: Time Allowed: 1 Min 30secs

a. Identify slide A (1)

b. Identify slide B (1)

c. What are common locations of slide A in human body (1

Rawalpindi Medical University
Department of Physiology
Block-III OSPE 1st Year MBBS

For Candidate: Time Allowed: 2 Minutes

1 A resident of internal medicine was examining a visibly dyspneic old man, he noted pulsations in the neck, he was confused about their nature. Enlist some maneuvers which will ascertain the nature of the pulsation. **(2.5)**

2 Give 03 sites for recording arterial pulse. **(0.5)**

Rawalpindi Medical University
Department of Biochemistry
Block-III OSPE 1st Year MBBS

For Candidate: **Station No. 1** Time Allowed: 2 Mins

Observed Station

Perform Iodine test. 03

For Organizer: **Station No. 2**

Observed Station

Observe the slide under the microscope. Give one identifying feature. 03

Rawalpindi Medical University
Department of Anatomy
Block-III AV OSPE 1st Year MBBS

Slide 1

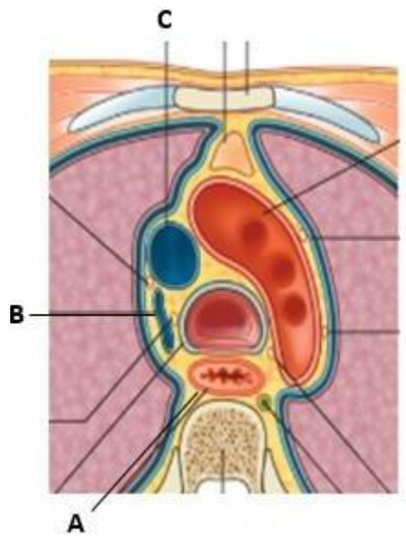
Total Marks: 05 marks

Time Allotted: 05 minutes

Requirements: Answer sheet, Pen

Objectives: _____

Cross Sectional Anatomy



Q.1 Identify

- A
- B
- C

Rawalpindi Medical University
Department of Anatomy
Block-III AV OSPE 1st Year MBBS

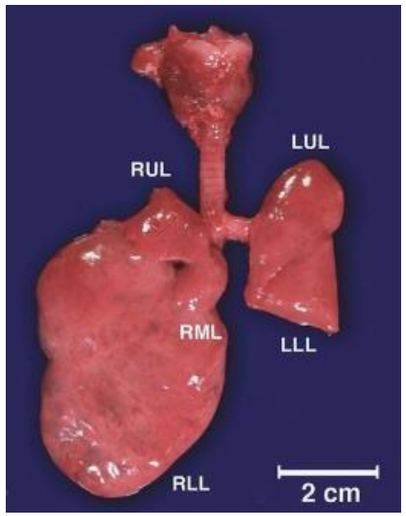
Slide 1

Total Marks: 05 marks

Time Allotted: 05 minutes

Requirements: Answer sheet, Pen

Objectives: _____



Q.1 Name the Congenital Abnormality? (1)

Q.2 Give Embryological basis of this condition? (1)

Q.3. What is agenesis of lungs? (1)

Q.4 What is Tracheoesophageal Fistula? (1)

Q.5. Give Blood Supply of lungs? (1)

Rawalpindi Medical University
Department of Biochemistry
Block-III AV OSPE 1st Year MBBS

Respiratory distress syndrome (RDS) typically presents rapid, shallow breathing, flaring of nostrils, retractions (visible sinking of the chest between and under the ribs), and grunting sounds. It commonly occurs in premature infants.

Q.1 Which is the cause of respiratory distress syndrome? (1)

Q.2 How this condition can be managed? (1)

Q.3 What is the Importance of prematurity in this case? (1)

Q.4. What are the biochemical changes in this condition? (1)

Timetable for General Educational Cluster (GEC) and Social Sciences in Medicine (SSM)Module
First Year MBBS (Batch-52)
(First Week)

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 09:50 AM	09:50 AM – 10:10AM	10:10 AM – 11:00 AM	11:00 AM – 11:50 AM	11:50 AM – 12:15 PM	12:15 PM – 02:00 PM		04:00 PM – 06:00 PM
20-11-2025 Thursday	**Bioethics**	**Holy Quran Translation**		**Social sciences**	**Seerat Mubarak**		**ITC**	Expository Writing (1)	
	Islamic Concept of Bioethics	Imaniat		Fundaments Of Sociology-I	The Significance of Seerah Studies		Introduction		
21-11-2025 Friday	**Bioethics**	**Holy Quran Translation**		**Social sciences**	**Seerat Mubarak**		**ITC**	**Bioethics Club Activity (2)**	Expositor (2)y (Writing
				Determenants of health	Importance of Hadees and Sunnah		Application and System Software		
22-11-2025 Saturday	**Bioethics**	**Holy Quran Translation**	**Break**	**Holy Quran Translation**	**Seerat Mubarak**	**Break**	**Social sciences**	**Social sciences**	
					The importance of Hadith and Sunnah of the Prophet in religion.		**Impact of social class**	Case studies	
24-11-2025 Monday	**Leadership**	**Holy Quran Translation**		**Social sciences**	**Seerat Mubarak**		**Bioethics Club Activity (1)**		
	Leadership Concepts			Health Behaviour	The life before the blessed birth and prophethood.				
25-11-2025 Tuesday	**Leadership Leading Groups & Teams**	**Holy Quran Translation**		**Social sciences**			**FRIDAY PRAYER**		
				Group discussions how social factors contribute to health disparities					
26-11-2025 Wednesday	Social Work at Hospital								

Timetable for General Educational Cluster (GEC) and Social Sciences in Medicine (SSM)Module
First Year MBBS (Batch-52)
(Second Week)

Date/Day	8:00 AM – 09:00 AM	09:00 AM – 09:50 AM	09:50 AM – 10:10AM	10:10 AM – 11:00 AM	11:00 AM – 11:50 AM	11:50 AM – 12:15 PM	12:15 PM – 02:00 PM	04:00 PM – 06:00 PM
27-11-2025 Thursday	Enterpreneurship Prototype	Holy Quran Translation	Break	**Social sciences** Illness Behaviour	Leadership **Leadership Group Leadership Exercise**	Break	**Bioethics Club Activity (3)**	
28-11-2025 Friday	Enterpreneurship Ideate Initial Idea I	Holy Quran Translation		**Social sciences** Doctor Patient Relationship -I	ITC File Management / Internet and Internet & Emails		**Videography** Fundamentals of Videography Camera Operation Basic	**ITC** **Online SDL**
29-12-2025 Saturday	Enterpreneurship Ideate Initial Idea II	Holy Quran Translation		**Social sciences** Doctor Patient Relationship -II	Artificial Intelligence (AI) Basic Concepts of AI		ITC **Input & Output DevicesTypes of Software**	**Videography** Shot Composition Techniques Introduction to Lighting
01-12-2025 Monday	Enterpreneurship Ideate Initial Idea III	Holy Quran Translation		Holy Quran Translation	Artificial Intelligence (AI) Machine Learning & Deep Learning		**Social sciences** Role play Doctor patient scenarios	Videography Ethical Considerations in Media Production
02-12-2025 Tuesday	Enterpreneurship Vision / Founder Fit-I Vision / Founder Fit-II	Holy Quran Translation		Leadership Self Assessment	Artificial Intelligence (AI) Ethical Consideration		**FRIDAY PRAYER**	**Videography** Basic Video Production
03-12-2025 Wednesday	Social Work at Hospital							Leadership Online Reflective Journaling
04-12-2025 Thursday	Social Work at Hospital							