

DEPARTMENT OF PHYSIOLOGY

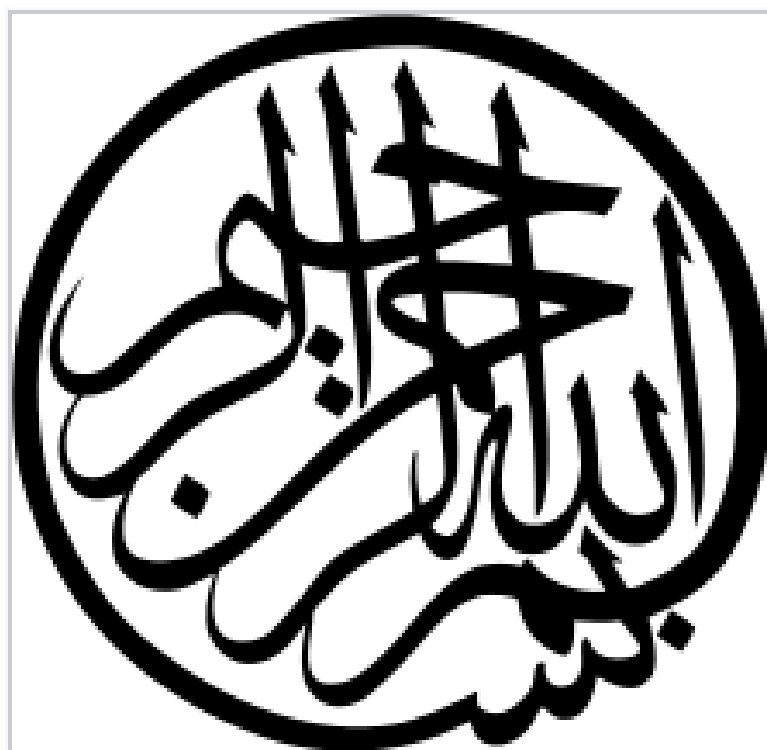


ANNUAL REPORT 2021

Presented by

Prof Dr. Samia Sarwar
Head / Professor of Physiology
Dean Allied Health Sciences
Rawalpindi medical university
rawalpindi

Date of Preperation:
7th October 2021



**INTRODUCTION
TO
PHYSIOLOGY DEPARTMENT**



INFRASTRUCTURE OF DEPARTMENT

The Physiology Department of Rawalpindi Medical University has:

Lecture Halls	:	02
Laboratory	:	01
Tutorial Rooms	:	02
Conference room / Departmental Library		01
Research Lab	:	01

Lecture Theaters

One air-conditioned lecture theater with accommodating capacity of 200 students. Over head projector multimedia and white boards are used as teaching aid to facilitate the students.

Small Group Discussion Room

Two rooms with capacity of 100 students for small group discussion.

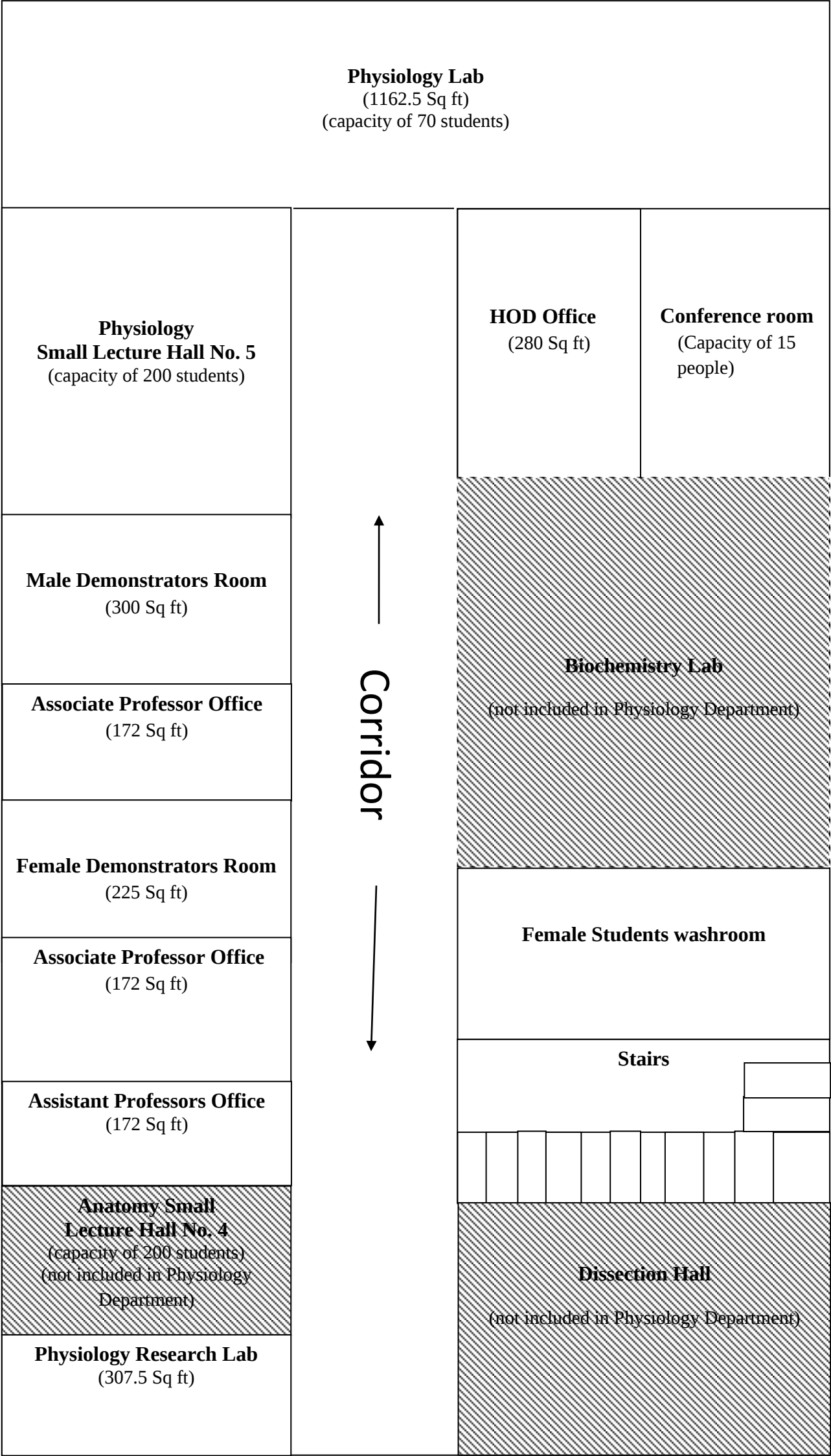
Physiology Laboratory

It is well equipped with the basic gadgets required for Physiological research

Equipment & Chemicals available in Lab:

- | | |
|--|--|
| 1. Sphygmomanometers | 28. Refrigerator |
| 2. Microscope Binoculars | 29. Assorted torches |
| 3. Haemocytometers. | 30. Beakers |
| 4. Haemoglobin meters. | 31. Blood group tiles |
| 5. Complete perimeters. | 32. Assorted capillary tubes (heparinized) |
| 6. ESR pipettes. | 33. Assorted capillary tubes (plain) |
| 7. Percussion hammers | 34. Assorted centrifuge tubes with cork |
| 8. Oxygen cylinders with flow meters | 35. Assorted EDTA tube |
| 9. Clinical thermometers. | 36. Assorted ESR pipette |
| 10. Student kymographs. | 37. Glass rod |
| 11. ECG machines | 38. Magnifying glass |
| 12. Centrifuge machine | 39. Assorted microscope slides |
| 13. Microhaematocrit reader | 40. Assorted Petri dishes |
| 14. Microhematocrit centrifuge | 41. Assorted Wintrobe's tubes |
| 15. Stethoscopes | 42. Antisera A, B and D |
| 16. Data acquisition system. | 43. Cedar wood oil |
| 17. Finger pulse oximeter | 44. Distilled water |
| 18. Stop watches | 45. HCL. |
| 19. Tuning forks of different frequencies. | 46. Leishman's stain |
| 20. Vision E type charts/Snellen's charts | 47. Methylated spirit. |
| 21. Ishihara charts | 48. Platelet solution (Ree's and Ecker's solution) |
| 22. Weighting machines | 49. Pregnancy test kits. |
| 23. Audiometers | 50. Assorted pregnancy strips |
| 24. Examination couch | 51. RBC solution |
| 25. Fire extinguishers | 52. WBC solution |
| 26. Jaeger's chart | 53. Xylene |
| 27. Ophthalmoscope | |

MAP OF THE DEPARTMENT OF PHYSIOLOGY



AIMS AND OBJECTIVES OF TEACHING PHYSIOLOGY

- To make the students aware of the basic Physiological processes occurring in the human body.
- To inculcate a trend for research in basic and applied physiology
- To help them understand physiological basis of commonly encountered diseases.
- To provide them a firm understanding of physiology which is necessary for the intelligent practice of medicine to diagnose and treat common illnesses

LIST OF TEACHING STAFF PHYSIOLOGY DEPARTMENT

S. No	Teacher Name	Designation
1.	Prof. Dr. Samia Sarwar	Professor & Head
2.	Dr. Syed Muarraf Hussain	Associate Professor
3.	Dr. Shmyla Hamid	Associate Professor
4.	Dr. Sidra Hamid	Assistant Professor
5.	Dr. Syed Ali Moosa Hussain	APMO
6.	Dr. Kamil Tahir	Senior Demonstrator
7.	Dr. Sheena Tariq	Senior Demonstrator
8.	Dr. Shazia Nosheen	Senior Demonstrator
9.	Dr. Asif Mehmood	Demonstrator
10.	Dr. Aneela Yasmin	Demonstrator
11.	Dr. Uzma Kiani	Demonstrator / PGT
12.	Dr. Fareedullah Khan	Demonstrator
13.	Dr. Fahd Anwar	Demonstrator
14.	Dr. Izzah Raashid Sidhu	Post Graduate Trainee
15.	Dr. Iqra Ayub	Post Graduate Trainee
16.	Dr. Maryam Abbas	Post Graduate Trainee
17.	Dr. Nayab Zonish	Post Graduate Trainee

LIST OF SUPPORT STAFF PHYSIOLOGY DEPARTMENT

S. No	Name	Designation
1.	Mr. Akhlaq Ahmad Imran	Technician
2.	Mr. Ashfaq Ahmad	Projectionist
3.	Mr. Muhammad Ikram	Computer Operator
4.	Mr. Ghulam Akbar	Lab Attendant
5.	Mr. Muhammad Ijaz	Lab Attendant
6.	Mr. Shahzad Ahmad	Ward Boy
7.	Mr. Riaz Masih	Sweeper
8.	Mr. Bashir Masih	Sweeper
9.	Mr. Robin Masih	Sweeper

TEACHING & TRAINING PROGRAMMES

UNDERGRADUATE COURSES

- 1st Year and 2nd Year MBBS
- 1st Year and 2nd Year Allied Health Sciences
 - DPT (Doctor of Physiotherapy)
 - B.Sc Hons.
 - Medical Imaging Technology (MIT)
 - Optometry & Orthoptics
 - Medical Laboratory Technology (MLT)
 - Orthotics & Prosthetic Sciences

POST GRADUATE COURSE

- FCPS Physiology

METHODS OF TEACHING

The Teaching and training program for Medical students during the first two years of MBBS course at the Department of Physiology comprises of:

- 1) Lecture / LGIS 2 Batches (12 lectures in a week)
- 2) SGD / CBL Batch 70 Students
- 3) Practical Batch 70 Students
- 4) PBL
- 5) SDL

LARGE GROUP INTERACTIVE SESSIONS

Approximately more than 262 Lectures are delivered to cover the important aspects of human Physiology. The modern audiovisual methods of teaching are also used in addition to the traditional teaching techniques

SKILL LAB

The applied and Clinical aspects of Physiology are taught in the form of practical's consisting of a number of experiments in the Physiology laboratory

SGD / CBL

SGD are group discussions. The students are encouraged to discuss their problems in the learning of Physiology.

They are given problems to solve in the light of their knowledge obtained during lectures. there are 3 CBL per Module

PBL

Integrated method of teaching involves clinical & basic sciences in 10 groups of 35 students per group. There is 1 PBL per module

SDL:

It is self-directed learning in which topics allocated are evaluated by teachers. There are 1-2 SDL per module.

1st YEAR PHYSIOLOGY SYLLABUS

Block I

- **Foundation Module:**

- 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

- **MSK-I Module:**

- Nerve physiology, membrane potential & action potential,
- Neuromuscular junction

Block II

- **MSK-II Module:**

- Contraction of Skeletal Muscle, Excitation of Skeletal Muscle
- Contraction and Excitation of Smooth Muscle
- Cardiac muscle, action potential and excitation contraction coupling in cardiac muscle, (chapter 9 excluding cardiac cycle)
- Specialized excitatory and conductive system of the heart (chapter 10)
- Comparison between Skeletal, Smooth & Cardiac Muscles

- **Blood & Immunity Module:**

- Red Blood Cells, Anemia, and Polycythemia
- Resistance of the Body to Infection: I. Leukocytes, Granulocytes, the Monocyte-Macrophage System, and Inflammation
- Resistance of the Body to Infection: II. Immunity and Allergy
- Blood Types; Transfusion; Tissue and Organ Transplantation, Hemostasis and Blood Coagulation
- Skin & Temperature regulation

Block III

- **CVS Module:**

- The Heart as a Pump and Function of the Heart Valves & regulation of heart pumping, cardiac cycle
- Rhythmical Excitation of the Heart & 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
- **Respiration Module:**
 - 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

2nd YEAR PHYSIOLOGY SYLLABUS

Block –I

- **GIT Module:**
 - General Principles of Gastrointestinal Function—Motility, Nervous Control, and Blood Circulation
 - Propulsion and Mixing of Food in the Alimentary Tract
 - Secretory Functions of the Alimentary Tract, Digestion and Absorption in the Gastrointestinal Tract
 - Physiology of Gastrointestinal Disorders
- **Renal Module:**
 - The Body Fluid Compartments: Extracellular and Intracellular Fluids; Edema
 - Urine Formation by the Kidneys: Glomerular Filtration, Renal Blood Flow, and Their Control, Tubular Reabsorption and Secretion
 - Urine Concentration and Dilution; Regulation of Extracellular Fluid, Osmolarity and Sodium Concentration
 - Renal Regulation of Potassium, Calcium, Phosphate, and Magnesium; Integration of Renal Mechanisms for Control of Blood, Volume and Extracellular Fluid Volume, Acid-Base Regulation
 - Diuretics, Kidney Diseases

Block – II

- **Reproduction Module:**
 - Reproductive and Hormonal Functions of the Male
 - Female Physiology Before Pregnancy and Female Hormones
 - Pregnancy and Lactation
 - Fetal and Neonatal Physiology

CNS Module:

- Organization of the Nervous System, Basic Functions of Synapses, and Neurotransmitters
- Sensory Receptors, Neuronal Circuits for Processing Information

- Somatic Sensations: I. General Organization, the Tactile and Position Senses, Sensory pathways
- Somatic Sensations: II. Pain, Headache, and Thermal Sensations, and their pathways
- Motor Functions of the Spinal Cord; the Cord Reflexes
- Cortical and Brain Stem Control of Motor Function and vestibular sensation & maintenance of equilibrium
- Contributions of the Cerebellum and Basal Ganglia to Overall Motor Control
- Cerebral Cortex, Intellectual Functions of the Brain, Learning, and Memory
- Behavioral and Motivational Mechanisms of the Brain—The Limbic System and the Hypothalamus
- States of Brain Activity—Sleep, Brain Waves, Epilepsy, Psychoses
- The Autonomic Nervous System and the Adrenal Medulla
- Cerebral Blood Flow, Cerebrospinal Fluid, and Brain Metabolism

Block- III

- **Special Senses Module:**

- The Eye: I. Optics of Vision
- The Eye: II. Receptor and Neural Function
- The Eye: III. Central Neurophysiology of Vision
- The Sense of Hearing
- The Chemical Senses - Taste and Smell

- **Endocrinology Module:**

- Introduction to Endocrinology
- Pituitary Hormones and Their Control by the Hypothalamus
- Thyroid Metabolic Hormones
- Adrenocortical Hormones
- Insulin, Glucagon, and Diabetes Mellitus
- Parathyroid Hormone, Calcitonin, Calcium and Phosphate Metabolism, Vitamin D, Bone, and Teeth

FIRST YEAR MBBS LGIS DISTRIBUTION SESSION 2021

Sr #	Module	Topic	Name of Teacher
1.	Foundation Module	Introduction to Physiology Department	Prof. Dr.Samia Sarwar
2.		Cell Physiology & homeostasis	Dr. Shmyla
3.		Concept of body fluid & internal environment	Dr. Sidra
4.		Homeostasis control system - I	Prof. Dr.Samia Sarwar / Dr. Uzma
5.		Homeostasis control system - II	Prof. Dr.Samia Sarwar / Dr. Uzma
6.		Cell membrane & cell organelles	Dr. Shmyla Hamid
7.		Cell organelles & cell functions - I	Dr. Shmyla Hamid
8.		Cell organelles and functions- II	Dr. Shmyla Hamid
9.		Genetics, transcription & translation	Dr. Shmyla Hamid
10.		Structure of nucleus, ribosomes & cell division	Prof. Dr.Samia Sarwar / Dr. Uzma
11.		Cellular control mechanism, cell cycle & programmed cell death / Apoptosis	Prof. Dr.Samia Sarwar / Dr. Uzma
12.		Intracellular communication & cell junction	Dr. Sidra
13.		Receptors&signal transduction	Dr. Sidra
14.		Cell membrane ion channels, transport across cell membrane	Dr. Shmyla Hamid
15.		transport across cell membrane osmosis	Dr. Shmyla Hamid
16.		Active Transport I	Dr. Shmyla Hamid
17.		Active Transport II	Dr. Sheena
18.	MSK - I	Structure of neurons	Dr. Sheena
19.		Classification of neurons & nerve fibres	Dr. Sheena
20.		Properties of nerve fibres	Dr. Kamil
21.		Nernst potential, RMP	Dr. Moosa
22.		Measurement & effect of electrolytes	Dr. Moosa
23.		Stages of action potential -I	Dr. Moosa
24.		Stages of action potential -II	Dr. Moosa
25.		Recording & propagation of action potential & factors effecting nerve conduction & hyperpolarized state	Dr. Fareed
26.		Graded potential, comparison with action potential	Dr. Muarraf
27.		Stimulus & response & types of stimuli	Dr. Fareed
28.		Refractory period, types of action potential	Dr. Fareed
29.		Concept of degeneration & regeneration	Dr. Kamil
30.		Synapse & synaptic transmission	Dr. Muarraf
31.		EPSP, IPSP Properties of chemical synapse	Dr. Muarraf
32.		NMJ, Intro & Structure) concept of motor unit. Neuromuscular transmission. Synthesis & fate of acetylcholine	Prof. Dr.Samia Sarwar / Dr. Moosa
33.		Drugs acting on NMJ, excitation contraction coupling	Prof. Dr.Samia Sarwar / Dr. Moosa
34.		Myasthenia Gravis, Lambert Eaton syndrome & muscular dystrophies	Prof. Dr.Samia Sarwar / Dr. Moosa / Dr. Kamil
35.	MSK-II	Introduction to muscle physiology, Structure of sarcomere	Dr. Muarraf / Dr. Uzma
36.		Sarcotubular system, excitation contraction coupling mechanism in skeletal muscle	Dr. Muarraf / Dr. Uzma
37.		Mechanism of skeletal muscle contraction, Rigor mortis	Dr. Muarraf / Dr. Uzma
38.		Length tension curve, Load and velocity of contraction, diseases of muscle	Dr. Muarraf
39.		Energetics, efficiency and types of contraction, heat production in muscle	Dr. Uzma
40.		Properties of skeletal muscles, Tetanus & Fatigue	Dr. Muarraf
41.		Physiology of Smooth Muscle	Dr. Aneela
42.		Properties of Smooth Muscle	Dr. Aneela

43.		Mechanism of smooth muscle contraction	Dr. Aneela
44.		Introduction to CVS	Dr. Fahad
45.		Introduction to pericardium	Dr. Muarraf
46.		Properties of myocardium, myocardial action potential	Dr. Sidra
47.		Regulation of myocardial activity	Dr. Sidra
48.		Conducting system of heart	Dr. Fahad
49.		Comparison of 3 type of muscle	Dr. Aneela
50.		Composition of blood & Haemopoiesis	Dr. Muarraf
51.		Plasma Proteins	Dr. Sidra
52.		Stages of erythropoiesis & factors affecting erythropoiesis	Dr. Sidra
53.		Hemoglobin & Hemoglobinopathies, Iron Metabolism	Dr. Sidra
54.		Red cell fragility ,ESR & Red cell indices, Anemia & polycythemia	Dr. Sidra
55.		Fate of RBCs & Jaundice	Dr. Sidra
56.		WBCs classification & formation Neutrophils	Dr. Muarraf
57.		Eosinophils & Basophils	Dr. Muarraf
58.		Monocytes -macrophage system & lymphocytes	Dr. Muarraf
59.		Lines of defense Inflammation	Dr. Muarraf
60.		Platelet formation & function haemostasis	Dr. Fareed
61.		Blood coagulation I & II	Dr. Fareed
62.		Factors keeping blood fluid state related disorders	Dr. Fareed
63.		Types of immunity, Physiology of innate immunity tolerance & auto immunity	Dr. Sidra
64.		Physiology of acquired immunity B-Cells	Dr. Sidra
65.		Physiology of acquired immunity T-Cells	Dr. Sidra
66.		Hypersensitivity reactions	Dr. Sidra
67.		ABO & Rh Blood grouping system	Dr. Fahad
68.		Rh Blood grouping system	Dr. Fahad
69.		Transfusion Hazards	Dr. Fahad
70.		Physiology of temperature regulation	Dr. Asif
71.		Mechanism of temperature regulation	Dr. Asif
72.		Disorders of Temperature Regulation	Dr. Asif
73.		Introduction to CVS	Prof. Dr.Samia Sarwar / Dr. Fahad
74.		Classification of blood vessels & Biophysical considerations	Dr. Muarraf
75.		Regulation of blood flow I	Dr. Muarraf
76.		Regulation of blood flow II	Dr. Muarraf
77.		Capillary circulation-I	Prof. Dr.Samia Sarwar / Dr. Fahad
78.		Capillary circulation-II	Prof. Dr.Samia Sarwar / Dr. Fahad
79.		Functions of veins & Venous return	Dr. Kamil
80.		Venous return	Prof. Dr.Samia Sarwar / Dr. Kamil
81.		Heart Sounds	Dr. Uzma
82.		Introduction to ECG & its clinical importance	Dr. Fahad
83.		Vectorial analysis & arrhythmias I	Dr. Fahad
84.		Arrhythmias II	Dr. Fahad
85.		ECG changes in myocardial hypertrophies, Ischemic heart disease	Dr. Fahad
86.		Cardiac output	Dr. Sidra
87.		Cardiac cycle I	Dr. Sidra
88.		Cardiac cycle II	Dr. Sidra
89.		Short term regulation of blood pressure	Prof. Dr.Samia Sarwar / Dr. Fahad
90.		Long term regulation of blood pressure	Prof. Dr.Samia Sarwar /

			Dr. Fahad
91.		Congestive cardiac failure - I	Dr. Fareed
92.		Congestive cardiac failure - II	Dr. Fareed
93.		Splanchnic circulation, cutaneous circulation	Prof. Dr.Samia Sarwar / Dr. Fareed
94.		Coronary circulation, Atherosclerosis & acute coronary occlusion	Dr. Fahad
95.		Fetal circulation & cardiac abnormalities in fetal circulation	Dr. Fahad
96.		Skeletal muscle blood flow, Cardiovascular changes during exercise	Dr. Uzma
97.		Circulatory Shock - I	Prof. Dr.Samia Sarwar / Dr. Fareed
98.		Circulatory Shock – II	Prof. Dr.Samia Sarwar / Dr. Fareed
99.		CVS Exercise Physiology	Prof. Dr.Samia Sarwar / Dr. Uzma / Dr. Fahad
100.	Respiration	Mechanics of pulmonary ventilation	Dr. Shmyla
101.		Lung compliance	Dr. Shmyla
102.		Pulmonary volumes, capacities & functions of respiratory tract	Dr. Shmyla
103.		Pulmonary circulation & Pulmonary capillary dynamics	Dr. Kamil
104.		Physical principles of gas exchange & diffusion through respiratory membrane	Dr. Muarraf
105.		Transport of oxygen	Dr. Muarraf
106.		Oxygen hemoglobin dissociation curve	Dr. Muarraf
107.		Transport of CO ₂	Dr. Muarraf
108.		Ventilation perfusion ratio	Dr. Shmyla
109.		Nervous regulation of respiration	Dr. Kamil
110.		Chemical regulation of respiration & exercise changes	Dr. Kamil
111.		Other factors affecting respiration	Dr. Kamil
112.		Lung function test	Prof. Dr.Samia Sarwar / Dr. Shmyla
113.		Respiratory abnormalities	Dr. Shmyla
114.		Hypoxia, hypercapnia, cyanosis	Dr. Shmyla
115.		Space physiology	Prof. Dr.Samia Sarwar / Dr. Fareed
116.		High altitude physiology	Prof. Dr.Samia Sarwar / Dr. Fareed
117.		Deep sea physiology	Dr. Asif

FIRST YEAR MBBS SKILL LAB DISTRIBUTION SESSION 2021

Sr #	Module	Topic	Batch	Name of Teacher
1.	Foundation Module	Introduction to Microscope	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fahad
			D	Dr. Sheena
			E	Dr. Moosa
2.		Introduction to Wintrobe & Westergen tube	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fareed
			D	Dr. Sheena
			E	Dr. Moosa
3.	Apparatus identification (Introduction to Neubauer’s chamber,	A	Dr. Fahad	
		B	Dr. Fareed	

		Red Blood Cell (RBC) pipettes& White Blood Cell (WBC) pipette	C	Dr. Fahad	
			D	Dr. Sheena	
			E	Dr. Moosa	
4.		Apparatus identification (Introduction to centrifuge machine)	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fareed	
			D	Dr. Sheena	
			E	Dr. Moosa	
5.	MSK - I	Determination of Hemoglobin concentration	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fahad	
			D	Dr. Sheena	
			E	Dr. Moosa	
6.		Determination of Hematocrit (HCT)	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fareed	
			D	Dr. Sheena	
			E	Dr. Moosa	
7.		Determination of Erythrocyte Sedimentation Rate (ESR)	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fahad	
			D	Dr. Sheena	
			E	Dr. Moosa	
8.		Determination of Differentiate leukocyte Count (DLC)	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fareed	
			D	Dr. Sheena	
			E	Dr. Moosa	
9.	MSK-II	Determination of Red blood cell count	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fahad	
			D	Dr. Sheena	
			E	Dr. Moosa	
10.		Determination of Total leukocyte Count (TLC)	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fareed	
			D	Dr. Sheena	
			E	Dr. Moosa	
11.		Determination of platelet count	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fahad	
			D	Dr. Sheena	
			E	Dr. Moosa	
12.	Blood & Immunity	Determination of ABO blood groups	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fareed	
			D	Dr. Sheena	
			E	Dr. Moosa	
13.		Determination of Rh blood groups	A	Dr. Fahad	
			B	Dr. Fareed	
			C	Dr. Fahad	
			D	Dr. Sheena	
			E	Dr. Moosa	
14.			Determination of Clotting Time (CT)	A	Dr. Fahad
				B	Dr. Fareed

			C	Dr. Fareed
			D	Dr. Sheena
			E	Dr. Moosa
15.		Determination of Bleeding Time (BT)	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fahad
			D	Dr. Sheena
			E	Dr. Moosa
16.		Recording of body temperature	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fareed
			D	Dr. Sheena
			E	Dr. Moosa
17.	CVS	Determination of arterial pulse	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fahad
			D	Dr. Sheena
			E	Dr. Moosa
18.		Determination of Jugular Venous Pulse (JVP) (Tutorial batch)	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
19.		Clinical examination of chest for CVS	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fareed
			D	Dr. Sheena
			E	Dr. Moosa
20.		Determination of Blood Pressure (BP) (Tutorial batch)	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa
21.		Effect of exercise and posture on arterial blood pressure	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fahad
			D	Dr. Sheena
			E	Dr. Moosa
22.		Recording of electrocardiography (ECG) (Tutorial batch)	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
23.		Cardio Pulmonary Resuscitation (CPR)	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fareed
			D	Dr. Sheena
			E	Dr. Moosa
24.		Demonstration of Triple response (Tutorial batch)	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa
25.	Respiration	Measurement of different lung volume and capacities with	A	Dr. Fahad
			B	Dr. Fareed

		help of spirometer	C	Dr. Fahad
			D	Dr. Sheena
			E	Dr. Moosa
26.		Recording of normal and modified movement of respiration (Stethography)	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fareed
			D	Dr. Sheena
			E	Dr. Moosa
27.		Clinical examination of chest for respiration	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Fahad
			D	Dr. Sheena
			E	Dr. Moosa

FIRST YEAR MBBS SMALL GROUP DISCUSSION DISTRIBUTION SESSION 2021

Sr #	Module	Topic	Batch	Name of Teacher
1.	Foundation Module	Functional organization of human body and cell physiology	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
2.		Body Fluid Compartments, cell membrane & cytoskeleton	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa
3.		Homeostasis, functions of cell organelles	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
4.		Transport across cell membrane, receptors & signal transduction	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa
5.	MSK - I	Discussion regarding foundation module	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
6.		Structure of neuron, Nernst potential and RMP	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa
7.		Stages of action potential	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
8.		Classification of neurons & nerve fibres, NGF concept of degeneration & regeneration, Nernst	A	Dr. Fahad
			B	Dr. Fareed

		potential RMP stages of action potential I & II	C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa
9.	MSK-II	Synapse & synaptic transmission	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
10.		Sliding filament model of muscle contraction sarcotubular system, types of muscle fibres	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa

SECOND YEAR MBBS LGIS DISTRIBUTION SESSION 2021

Sr. #	Module	Topics	Teacher Name
1.	GIT	Introduction to GIT Electrical activity in GIT	Dr. Aneela
2.		Enteric nervous system & GIT reflexes	Dr. Shazia
3.		Movements of GIT	Dr. Aneela
4.		Control of GI motility & factors affecting GIT blood flow	Dr. Aneela
5.		Swallowing-I	Dr. Shazia
6.		Swallowing-II	Dr. Shazia
7.		Motor function of stomach	Dr. Shazia
8.		Physiology of regulation of gastric emptying	Dr. Shazia
9.		Small intestine motility	Dr. Shazia
10.		Motor function large gut	Dr. Shazia
11.		Defecation	Dr. Shazia / Dr. Aneela
12.		Saliva	Dr. Shazia
13.		Gastric secretion	Dr. Shazia
14.		Physiology of pancreas	Dr. Shazia
15.		Physiology of liver / gall bladder	Dr. Aneela
16.		Liver & biliary secretion	Dr. Aneela
17.		LFTs, Jaundice	Dr. Aneela
18.		Physiology of clinical cirrhosis & portal HTN	Dr. Aneela
19.		Digestion & absorption - I	Dr. Aneela
20.		Digestion & absorption – II	Dr. Aneela
21.		Clinical disorders of esophagus & swallowing achalasia / vomiting	Dr. Aneela
22.		Digestion in stomach & peptic ulcer, gastritis	Dr. Shazia
23.		Diarrhea malabsorption sprue	Dr. Shazia
24.		Ulcerative colitis & paralytic ileus	Dr. Aneela
25.		Hormones of GIT	Dr. Aneela
26.	Renal	Body fluid compartments	Dr. Sheena
27.		Volume & osmolarity of ECF & ICF	Dr. Sheena
28.		Abnormalities of fluid volume & regulation	Dr. Sheena
29.		Edema	Dr. Muarraf
30.		Physiology of Renal system	Dr. Shmyla
31.		Glomerular filtration rate	Dr. Shmyla
32.		Regulation of GFR & RBF – I	Dr. Shmyla
33.		Regulation of GFR & RBF – II	Dr. Shmyla
34.		Tubular reabsorption	Dr. Shmyla
35.		Tubular reabsorption & secretion along various parts of nephrons	Dr. Shmyla

36.		Regulation of tubular reabsorption	Dr. Shmyla
37.		Clearance methods to quantify kidney function	Dr. Shmyla
38.		Excretion of dilute urine	Dr. Sidra
39.		Excretion of concentrated urine (counter current multiplier)	Dr. Sidra
40.		Excretion of concentrated urine (counter current exchanger)	Dr. Sidra
41.		Control of ECF osmolarity – I	Dr. Sheena
42.		Control of ECF osmolarity - II	Dr. Sheena
43.		Micturition reflex	Dr. Shmyla
44.		Abnormalities of micturition	Dr. Shmyla
45.		Regulation of ECF K ⁺ concentration	Dr. Sheena
46.		Regulation of Ca ⁺⁺ , PO ₄ ⁻³ & Mg ⁺² concentration	Dr. Sheena
47.		Integration of renal mechanism for control of ECF	Dr. Sheena
48.		Nervous & hormonal factors for renal body fluid feedback control	Dr. Sheena
49.		Introduction to physiology of acid base balance & buffer systems	Dr. Sidra
50.		Respiratory and renal regulation of acid base balance	Dr. Sidra
51.		Acid base disorder I	Dr. Sidra
52.		Acid base disorder II	Dr. Sidra
53.		Renal failure & hemodialysis	Dr. Sheena
54.	Reproduction	Physiological anatomy of male reproductive system & spermatogenesis	Dr. Moosa / Dr. Fareed
55.		Semen, capacitation & acrosome reaction	Dr. Moosa
56.		Male sex hormones	Dr. Moosa
57.		Abnormalities of male sexual function and spermatogenesis	Dr. Moosa
58.		Physiological anatomy female reproductive system	Prof. Dr. Samia Sarwar / Dr. Sheena
59.		Monthly Ovarian Cycle, ovulation	Prof. Dr. Samia Sarwar / Dr. Sheena
60.		Monthly Endometrial Cycle and Menstruation	Prof. Dr. Samia Sarwar / Dr. Sheena
61.		Female sex hormones (estrogen and progesterone)	Prof. Dr. Samia Sarwar / Dr. Sheena
62.		Puberty, menarche, menopause & anovulatory cycles	Dr. Shazia
63.		Abnormalities of secretion by ovaries	Dr. Shazia
64.		Fertilization of ovum, transport, implantation	Dr. Shazia
65.		Functions of placenta	Dr. Shazia
66.		Hormonal factors in pregnancy	Dr. Sheena
67.		Response of mother's body to pregnancy	Dr. Moosa
68.		Parturition	Dr. Moosa
69.		Lactation, Milk composition, breast feeding	Dr. Moosa
70.		Growth & functional development of fetus, Adjustments of infant to extrauterine life	Dr. Moosa
71.		Special functional problems in neonate 1. Prematurity and its problems	Dr. Moosa
72.		Growth & development in child	Dr. Moosa
73.	CNS	Organization of nervous system, Mechanism of synaptic transmission	Dr. Shmyla
74.		Mechanism of synaptic transmission	Dr. Shmyla
75.		Properties of synaptic transmission	Dr. Shmyla
76.		Classification of sensory receptors	Prof. Dr. Samia Sarwar / Dr. Kamil
77.		Properties of sensory receptors - I	Prof. Dr. Samia Sarwar / Dr. Kamil
78.		Properties of sensory receptors - II	Prof. Dr. Samia Sarwar / Dr. Kamil
79.		Sensory pathways for transmitting somatic signals - I	Dr. Moosa
80.		Sensory pathways for transmitting somatic signals - II	Dr. Moosa
81.		Somatosensory cortex & lesions of Somatosensory cortex	Dr. Asif

82.		Physiology of pain, Dual pathway for transmission of pain	Dr. Kamil
83.		Analgesia System Thermal sensations	Dr. Kamil
84.		Introduction to autonomic nervous system Basic Characteristics of sympathetic & parasympathetic function	Dr. Uzma
85.		Excitatory & inhibitory effects of sympathetic & parasympathetic stimulation	Dr. Uzma
86.		Concept of Association areas	Dr. Aneela
87.		Concept of Dominant and non-dominant cerebral hemispheres	Dr. Asif
88.		CSF, BBB, Blood CSF Barrier, LP	Dr. Muarraf
89.		Speech and aphasia	Dr. Asif
90.		Learning and memory	Dr. Muarraf
91.		Limbic system	Dr. Muarraf
92.		Functions of hypothalamus	Dr. Muarraf
93.		EEG and epilepsy	Dr. Muarraf
94.		Reticular activating system and sleep	Dr. Asif
95.		Introduction to motor nervous system & Reflex action, Conditioned reflexes & properties	Dr. Sidra
96.		Properties of reflex action, Control of spinal cord reflexes by higher centers	Dr. Sidra
97.		Muscle spindle & Golgi tendon organ	Dr. Sidra
98.		Role of muscle spindle and Golgi tendon organ in voluntary motor activity	Dr. Sidra
99.		Polysynaptic reflexes& Transection of spinal cord	Dr. Sidra
100.		Motor cortex & physiological importance of neocortex, Corticospinal or pyramidal tract	Dr. Muarraf
101.		Corticospinal or pyramidal tract, Extra pyramidal system	Dr. Muarraf
102.		Role of brain stem in controlling motor functions & Lesions of motor system	Dr. Sidra
103.		Introduction to cerebellum & Neuronal circuits of cerebellum	Dr. Shmyla
104.		Cerebellum and its motor functions	Dr. Shmyla
105.		Manifestations of cerebellar disease	Dr. Shmyla
106.		Basal Ganglia & Lesions	Dr. Muarraf
107.	Special senses	Introduction to Physiology of Eye & Optics of vision. General Principles of optics, Physiological basis for errors of refraction	Prof. Dr.Samia Sarwar / Dr. Uzma
108.		Fluid system of the eye Intraocular pressure, Function of the Structural Elements of the Retina	Prof. Dr.Samia Sarwar / Dr. Uzma
109.		Photochemistry of vision &Physiological basis for photo transduction	Prof. Dr.Samia Sarwar / Dr. Uzma
110.		Light & dark adaptation, Color vision, Neural functions of the retina, Central neurophysiology of vision, Neural pathways for analysis of visual information	Prof. Dr.Samia Sarwar / Dr. Uzma
111.		Lesions of visual pathway and its effects on field of vision, Movements of eye ball along with neural control	Dr. Uzma
112.		Physiology of accommodation and clinical abnormalities	Dr. Uzma
113.		Introduction to Physiology of external ear, Middle ear	Dr. Asif
114.		Functions of Inner ear, Physiology of Hearing	Dr. Asif
115.		Hearing abnormalities	Dr. Asif
116.		Vestibular system	Dr. Asif
117.		Sense of Taste	Dr. Kamil
118.		Sense of Smell	Dr. Kamil
119.	Endocrinology	Introduction to endocrinology & Signal transduction - I	Dr. Shmyla
120.		Introduction to endocrinology & Signal transduction- II	Dr. Shmyla
121.		Hypothalamic–pituitary axis& GH	Dr. Kamil
122.		Abnormalities of growth hormone secretion	Dr. Kamil
123.		Hormones of posterior pituitary gland	Dr. Kamil
124.		Thyroid hormones-I	Prof. Dr.Samia Sarwar /

			Dr. Asif
125.		Thyroid hormones-II	Prof. Dr.Samia Sarwar / Dr. Asif
126.		Abnormality of thyroid hormone secretion	Prof. Dr.Samia Sarwar / Dr. Asif
127.		Bone Physiology	Dr. Muarraf
128.		Vitamin D	Dr. Muarraf
129.		Parathyroid hormone	Dr. Muarraf
130.		Insulin	Dr. Fareed
131.		Regulation of blood Glucose & glucagon	Dr. Fareed
132.		Diabetes Mellitus	Dr. Fareed
133.		Aldosterone	Dr. Asif
134.		Cortisol	Dr. Asif
135.		Abnormalities of adrenocortical hormone secretion	Dr. Asif / Dr. Sheena

SECOND YEAR MBBS SKILL LAB DISTRIBUTION SESSION 2021

Sr #	Module	Topic	Batch	Name of Teacher
1.	GIT	Examination of sense of taste	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
2.		Examination of sense of smell	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
3.		Examination of superficial reflexes	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
4.		Examination of deep reflexes	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
5.		Performance of Axon reflex	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
6.	Renal	Estimation of specific gravity of urine	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
7.		Examination of 9 th , 10 th , 11 th & 12 th cranial nerves	A	Dr. Kamil

			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
8.		Examination of 5 th cranial nerve	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
9.		Performance of pregnancy test	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
10.	Reproduction	Examination of 7 th cranial nerve	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
11.		Examination of 3 rd , 4 th , 6 th cranial nerves	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
12.		Examination of sensory system	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
13.		Examination of motor system	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
14.	CNS	Examination of cerebellar functions	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
15.		Ophthalmoscopy	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
16.		Determination of field of vision	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
17.	Special senses	Estimation of visual acuity	A	Dr. Kamil

			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
18.		Examination of 8 th cranial nerve(vestibular function)	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
19.		Performance of hearing test (cochlear function)	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif
20.	Endocrinology	Examination pupillary reactions	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Aneela
			D	Dr. Shazia
			E	Dr. Asif
21.		Checking for color vision	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Kamil
			D	Dr. Shazia
			E	Dr. Asif

SECOND YEAR MBBS SMALL GROUP DISCUSSION DISTRIBUTION SESSION 2021

Sr #	Module	Topic	Batch	Name of Teacher
1.	GIT	Introduction to GIT	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
2.		Swallowing	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia
			E	Dr. Asif
3.		Functions of Stomach	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
4.		Liver Functions	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia
			E	Dr. Asif
5.		Digestion and absorption	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia

			E	Dr. Asif
6.	Renal	Glomerular filtration rate and its regulation	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia
			E	Dr. Asif
7.		Formation of dilute & concentrated urine	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
8.		Micturition& Acid Base balance	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia
			E	Dr. Asif
9.	Reproduction	Physiology of male reproductive system	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
10.		Physiology of female reproductive system	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia
			E	Dr. Asif
11.		Response of mother's body to pregnancy, Lactation	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
12.	CNS	Synapse & sensory Receptors	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia
			E	Dr. Asif
13.		Autonomic Nervous System	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
14.		Sleep & Epilepsy, Cortical Areas	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia
			E	Dr. Asif
15.		Motor Nervous System & cerebellum	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
16.		Basal Ganglia & CSF	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia

			E	Dr. Asif
17.	Special senses	Fluid system of the eye, Light & dark adaptation	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
18.	Special senses	Hearing tests	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia
			E	Dr. Asif
19.	Endocrinology	Thyroid hormone, Signal transduction	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
20.		Growth hormone, Aldosterone, Vit D, Cortisol	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Shazia
			D	Dr. Shazia
			E	Dr. Asif
21.		Parathyroid hormone, Insulin, Glucagon, DM	A	Dr. Kamil
			B	Dr. Aneela
			C	Dr. Asif
			D	Dr. Shazia
			E	Dr. Asif
11.	Blood & Immunity	Functions & composition of blood, Haemopoiesis and Bone marrow	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
12.		RBCs & erythropoiesis	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa
13.		Erythrocytes & Erythropoiesis	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
14.		Immunity	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa
15.		Blood Groups and transfusion hazards	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa

16.	Respiration	Mechanics of pulmonary ventilation, lung compliance	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa
17.		Transport of gases & ventilation perfusion ratio	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Sheena
			D	Dr. Sheena
			E	Dr. Moosa
18.		Physiology of unusual environment	A	Dr. Fahad
			B	Dr. Fareed
			C	Dr. Moosa
			D	Dr. Sheena
			E	Dr. Moosa

INHOUSE ASSESSMENT

Passing marks for each assessment are 50%

First Year MBBS

Block	FOUNDATION MODULE		MSK-I MODULE	
BLOCK – I	Assessment	Pass %	Assessment	Pass %
	Over all module result	99%	Class test	88%
			Module exam (online)	99%
	Module exam (Physiology component)	99%	Module exam (on campus)	Not applicable
	Block – I Exam Physiology Component			86%
	Overall Result			97%
	OSPE			89%
BLOCK – II	MSK-II MODULE		BLOOD & IMMUNITY MODULE	
	Assessment	Pass %	Assessment	Pass %
	Module exam (online)	100%	Class test	90%
	Over all module result	41%		
	Module exam (Physiology component)	71%		
	Block – II exam Overall result			96%
	Block – II Exam Physiology Component			99%
	OSPE			93%
BLOCK – III	CVS MODULE		RESPIRATION MODULE	
	Assessment	Pass %	Assessment	Pass %
	Viva	Result awaited	Viva	Result awaited
	Module exam (on campus)	Result awaited	Module exam (on campus)	Not applicable
	Block exam			To be held on 15.10.21
	OSPE			To be held on 16.10.21

SEND UP EXAMINATION	Tentative dates
BLOCK – I	9.11.2021
BLOCK – II	13.11.2021
BLOCK – III	17.11.2021
OSPE BLOCK – I	18.11.2021
OSPE BLOCK – II	19.11.2021
OSPE BLOCK – III	20.11.2021

PROFESSIONAL/UNIVERSITY EXAMINATION	Tentative dates
BLOCK – I	1.1.2022
BLOCK – II	5.1.2022
BLOCK – III	10.1.2022
OSPE BLOCK – I	12.1.2022 to 21.1.2022
OSPE BLOCK – II	
OSPE BLOCK – III	

Second Year MBBS

Block	GIT MODULE		RENAL MODULE	
BLOCK – I	Assessment	Pass %	Assessment	Pass %
	Module exam (online)	97%	Module exam (online)	75%
	Module exam (Physiology Component)	67%	Module exam (on campus)	Not applicable
	Overall Module Result	25%		
	Overall Block-I Exam	98%		
	Block- I exam (Physiology Component)			95%
	OSPE			91%
BLOCK – II	REPRODUCTION MODULE		CNS MODULE	
	Assessment	Pass %	Assessment	Pass %
	Overall Module Result	82%	Viva	75%
	Module exam ((Physiology Component)	97%	Module exam (on campus)	Not applicable
	Overall Block-II Exam			81%
	Block- II exam (Physiology Component)			85%
	OSPE		OSPE Postponed due to Covid-19	
BLOCK – III	SPECIAL SENSES MODULE		ENDOCRINOLOGY MODULE	
	Assessment	Pass %	Assessment	Pass %
	Class test Viva	Result awaited	Viva	To be held on 18-19 th October 2021
	Module exam	Result awaited	Module exam	Not applicable
	Block exam		To be held on 26th October 2021	
	OSPE		To be held on 28th October 2021	

SEND UP EXAMINATION	Tentative dates
BLOCK – I	23.11.2021
BLOCK – II	27.11.2021
BLOCK – III	1.12.2021
OSPE BLOCK – I	2.12.2021
OSPE BLOCK – II	3.12.2021
OSPE BLOCK – III	4.12.2021

PROFESSIONAL/UNIVERSITY EXAMINATION	Tentative dates
BLOCK – I	13.1.2022
BLOCK – II	17.1.2022
BLOCK – III	21.1.2022
OSPE BLOCK – I	26.1.2022 to 4.2.2022
OSPE BLOCK – II	
OSPE BLOCK – III	

IMPORTANT DATES AND ACTIVITIES

FOR PRESENT FIRST AND SECOND YEAR MBBS 2020-2021

	IST YEAR MBBS	2ND YEAR MBBS
End of Session	7 th October,2020	24 th October,2020
Sendup Dates	16 th Nov to 30 th Nov,2020	27 th Nov to 14 th Dec,2020
Result Receiving in DME	1 st December,2020	18 th December,2020
HOD, Meeting for admission criteria	2 nd December,2020	19 th December,2020
UHS Admission date with single fee	14-12-2020	28-12-2020
UHS Admission date with double fee	21-12-2020	4-1-2021
Annual dates of examination by UHS	1-1-2021 to 8-1-2021	12-1-2021 to 22-1-2021

**PHYSIOLOGY TIME TABLE FOR B.SC & ALLIED HEALTH SCIENCES
FIRST YEAR & SECOND YEAR**

DAY	TIME		
Monday	10:00 – 12:00 (2 hours)	12:00 – 02:00 (2 hours)	
	1st year • DPT • Optometry • Orthotics & Prosthetics • MLT • MIT	2nd year • Optometry & Orthoptics	
Tuesday	09:00 – 11:00 (2 hours)	12:00 – 02:00 (2 hours)	
	2nd year • Optometry & Orthoptics	2nd year • DPT	
Wednesday	09:00 – 11:00 (2 hours)	11:00 – 12:00 (1 hour)	
	2nd year • Orthotics & Prosthetics	1st year • DPT • Optometry • Orthotics & Prosthetics • MLT • MIT	
Thursday	10:00 – 11:00 (1 hour)	12:00 – 02:00 (2 hours)	12:00 – 02:00 (2 hours)
	1st year • DPT • Optometry • Orthotics & Prosthetics • MLT • MIT	2nd year • DPT	2nd year • Orthotics & Prosthetics
Friday	08:00 – 09:00(1 hour)	09:30 – 11:00(1 hour 30 min.)	
	1st year • DPT	2nd year • DPT	
Saturday	10:00 – 11:00(1 hour)	11:00 – 01:00 (2 hours)	
	2nd year • Optometry & Orthoptics	2nd year • Orthotics & Prosthetics	

FIRST YEAR AHS LECTURE DISTRIBUTION

Sr. No	Unit Name	Topic	Name of Teachers
1.	Basic & cell physiology	Functional organization of human body	Dr. Muarraf Hussain
2.		Homeostasis	Dr. Muarraf Hussain
3.		Control systems in the body	Dr. Muarraf Hussain
4.		Cell membrane and its functions	Dr. Muarraf Hussain
5.		Cell organelles and their functions	Dr. Muarraf Hussain
6.		Genes: control and function	Dr. Muarraf Hussain
7.	Nerve & Muscle	Structure and function of neuron	Dr. Fareed Ullah
8.		Physiological properties of nerve fibers	Dr. Fareed Ullah
9.		Physiology of action potential, Conduction of nerve impulse	Dr. Fareed Ullah
10.		Nerve degeneration and regeneration.	Dr. Fareed Ullah
11.		Synapses	Dr. Fareed Ullah
12.		Physiological structure of muscle, Skeletal muscle contraction	Dr. Uzma
13.		Skeletal, smooth and cardiac muscle contraction	Dr. Uzma
14.		Neuromuscular junction and transmission	Dr. Uzma
15.		Excitation contraction coupling, Structure and function of motor unit	Dr. Uzma
16.		Perform nerve conduction studies and explain their clinical importance	Dr. Fareed
17.		Myopathies and neuropathies	Dr. Uzma
18.		Peripheral nerve injuries	Dr. Fareed
19.	GIT	General function of gastrointestinal tract	Dr. Aneela
20.		Enteric nervous system	Dr. Aneela
21.		Control of gastrointestinal motility and secretion	Dr. Aneela
22.		Mastication, Swallowing: mechanism and control	Dr. Aneela
23.		Dysphagia	Dr. Aneela
24.		Function, motility and secretions of stomach	Dr. Aneela
25.		Physiological basis of acid peptic disease	Dr. Aneela
26.		Function, motility and secretions of small intestine	Dr. Aneela
27.		Function, motility and secretions of large intestine	Dr. Aneela
28.		Function of GIT hormones	Dr. Aneela
29.		Mechanism of vomiting and its control pathway	Dr. Aneela
30.		Causes of vomiting	Dr. Aneela
31.		Defecation and its control pathway	Dr. Aneela
32.		Diarrhea and constipation in clinical settings	Dr. Aneela
33.		Functions of liver	Dr. Aneela
34.		Functions of gallbladder and bile in digestion	Dr. Aneela
35.		Jaundice and liver function tests in clinical settings	Dr. Aneela
36.		Endocrine & exocrine pancreas and functions of pancreas in digestion	Dr. Aneela
37.	Blood	Composition and general functions of blood	Dr. Sidra
38.		Plasma proteins their production and function	Dr. Sidra
39.		Erythropoiesis and red blood cell function	Dr. Sidra

40.		Structure, function, production and different types of haemoglobin	Dr. Sidra
41.		Iron absorption storage and metabolism	Dr. Sidra
42.		Anemia and its different types	Dr. Sidra
43.		Blood indices in various disorders	Dr. Sidra
44.		Function, production and type of white blood cells	Dr. Sidra
45.		Blood groups and their role in blood transfusion	Dr. Sidra
46.		Blood grouping and cross matching	Dr. Sidra
47.		Complications of blood transfusion with reference to ABO & RH incompatibility	Dr. Sidra
48.		Components of reticuloendothelial systems, gross and microscopic structure including tonsil, lymph node and spleen	Dr. Sidra
49.		Development and function of reticuloendothelial system	Dr. Sidra
50.		Immunity	Dr. Sidra
51.		Function & production of platelets	Dr. Sidra
52.		Clotting mechanism of blood	Dr. Sidra
53.		Clotting disorders	Dr. Sidra
54.	CVS	Heart and circulation	Dr. Sidra
55.		Function of cardiac muscle	Dr. Kamil
56.		Cardiac pacemaker and cardiac muscle contraction	Dr. Kamil
57.		Cardiac cycle	Dr. Sidra
58.		ECG: recording and interpretation	Dr. Fahad
59.		Clinical significance of cardiac cycle, correlation of ECG and heart sounds to cardiac cycle	Dr. Sidra
60.		Clinical significance of cardiac cycle,	Dr. Sidra
61.		Common arrhythmias and its mechanism of development, interpretation of ischemia and arrhythmias	Dr. Fahad
62.		Types of blood vessels and their function	Dr. Sidra
63.		Hemodynamics of blood flow, Peripheral resistance its regulation and effect on circulation.	Dr. Sidra
64.		Arterial pulse	Dr. Kamil
65.		Blood pressure and its regulation, Effects of hypertension	Dr. Sidra
66.		Cardiac output and its control I	Dr. Sidra
67.		Cardiac output and its control II	Dr. Sidra
68.		Heart sounds and murmurs Clinical significance of heart sounds	Dr. Kamil
69.		Control of venous return,	Dr. Kamil
70.		Coronary circulation, Effects of ischemia	Dr. Sidra
71.		Microcirculation & capillary fluid exchange, functions of veins	Dr. Sidra
72.		Splanchnic, pulmonary and cerebral circulation. Triple response and cutaneous circulation.	Dr. Kamil Dr. Kamil
73.		Blood flow & Shock	Dr. Sidra

74.		Fetal circulation and circulatory changes at birth	Dr. Kamil
75.	Respiration	Function of respiratory tract	Dr. Muarraf
76.		Mechanics of breathing	Dr. Muarraf
77.		Production & function of surfactant	Dr. Muarraf
78.		Compliance of lungs	Dr. Muarraf
79.		Protective reflexes	Dr. Muarraf
80.		Lung volumes and capacities including dead space	Dr. Muarraf
81.		Diffusion of gases across the alveolar membrane	Dr. Muarraf
82.		Relationship between ventilation and perfusion	Dr. Muarraf
83.		Causes of abnormal ventilation and perfusion. Effects on pneumothorax, pleural effusion, and pneumonia	Dr. Muarraf
84.		Mechanism of transport of oxygen and carbon dioxide in blood	Dr. Muarraf
85.		Nervous and chemical regulation of respiration	Dr. Muarraf
86.		Abnormal breathing	Dr. Muarraf
87.		Hypoxia, its causes and effects	Dr. Muarraf
88.		Cyanosis, its causes and effects	Dr. Muarraf
89.		Clinical significance of hypoxia, cyanosis, and dyspnoea	Dr. Muarraf
90.		Respiratory failure	Dr. Muarraf
91.		Artificial respiration and uses& effects of O2 therapy, Clinical importance of lung function tests	Dr. Muarraf
92.	Integumentary System	Functions of the skin, hair, glands and nails	Dr. Sheena
93.		Body temperature and its regulation	Dr. Sheena
94.	Endocrine system	Functions of the Endocrine System	Dr. Kamil
95.		Chemical Signals, receptors and hormones	Dr. Kamil
96.		The Endocrine Glands and their Hormones	Dr. Kamil
97.	Nervous system	The functional areas of the cerebral cortex and their interactions	Dr. Kamil
98.		Functions of the parts of the brainstem diencephalons, basal nuclei. Limbic System and cerebellum	Dr. Kamil
99.		Functions of various cranial nerves, Functions of the somatic motor nervous system	Dr. Kamil
100.		The function of neurons, neurological cells and their components The function of a synapse and reflex arc	Dr. Kamil
101.		Functions of the autonomic nervous system	Dr. Asif
102.	Special senses	Physiology of olfactory nerve	Dr. Kamil
103.		Functions of the internal, middle and external ear	Dr. Aneela
104.		Physiology of the hearing and balance	Dr. Aneela
105.		Eye---- physiology of site, accommodation, optic nerve and optic chiasma	Dr. Uzma
106.		Physiology of taste, Location of the taste buds, Physiology of speech	Dr. Kamil
107.	Genitourinary	Urine Production, Urine Movement, Regulation of Urine Concentration and Volume	Dr. Moosa

108.	system	Body Fluid Compartments, Regulation of Extra-cellular Fluid Composition	Dr. Moosa
109.		Regulation of Acid-Base Balance, Physiology of Male Reproductive system	Dr. Moosa
110.		Physiology of Female Reproductive system, ovulation and menstrual cycle	Dr. Moosa

FIRST YEAR DOCTOR OF PHYSICAL THERAPY (DPT-I) PRACTICALS

Sr. No	Unit Name	Topic	Name of Teachers
1.	Blood	Use of the microscope	Dr. Fareed
2.		Determination of haemoglobin	Dr. Fareed
3.		Determination of erythrocyte sedimentation rate	Dr. Fareed
4.		Determining packed cell volume	Dr. Fareed
5.		Measuring bleeding and clotting time	Dr. Fareed
6.		RBC count	Dr. Fareed
7.		Red cell indices	Dr. Fareed
8.		WBC count	Dr. Fareed
9.		DLC	Dr. Fareed
10.		Prothrombin and thrombin time	Dr. Fareed
11.	CVS	Cardiopulmonary resuscitation	Dr. Fareed
12.		Examination of arterial pulse	Dr. Fareed
13.		Arterial blood pressure	Dr. Fareed
14.		Effects of exercise and posture on blood pressure	Dr. Fareed
15.		Apex beat and normal heart sounds	Dr. Fareed
16.		ECG recording and interpretation I	Dr. Fareed
17.		ECG recording and interpretation II	Dr. Fareed
18.	Respiration	Clinical examination of chest I	Dr. Fareed
19.		Clinical examination of chest II	Dr. Fareed
20.		Pulmonary volume, their capacities and clinical interpretation	Dr. Fareed
21.		Stethography	Dr. Fareed

SECOND YEAR DOCTOR OF PHYSICAL THERAPY (DPT-2) LECTURE DISTRIBUTION

Sr. No	Unit Name	Topic	Name of Teachers
111.	Body fluids & kidney	Components and quantitative measurements of body fluids	Dr. Muarraf
112.		Fluid compartments, tissue and lymph fluid	Dr. Muarraf
113.		Structure of the kidney and nephron, General function of the kidney	Dr. Muarraf
114.		GFR and its regulation.	Dr. Muarraf
115.		Formation of urine including filtration, re-absorption and secretion	Dr. Muarraf
116.		Plasma clearance., Mechanism of concentration	Dr. Muarraf

		and dilution of urine	
117.		Water and electrolyte balance with reference to the kidney	Dr. Sheena
118.		Role of the kidney in blood pressure regulation	Dr. Muarraf
119.		Hormonal functions of the kidney	Dr. Muarraf
120.		Acidification of urine and its importance	Dr. Muarraf
121.		Acid base balance with reference to the kidney	Dr. Muarraf
122.		Metabolic acidosis and alkalosis	Dr. Muarraf
123.		Micturition and its control	Dr. Muarraf
124.		Abnormalities of micturition	Dr. Muarraf
125.		Fluid excess and depletion	Dr. Muarraf
126.		Renal function tests and their clinical importance	Dr. Muarraf
127.		Renal failure and dialysis	Dr. Sheena
128.	Reproduction	Function of the male reproductive system, Spermatogenesis	Dr. Moosa
129.		Production and function of testosterone and Physiological changes during male puberty	Dr. Moosa
130.		Function of the female reproductive system	Dr. Moosa
131.		Production and function of estrogen, and progesterone	Dr. Moosa
132.		Menstrual cycle	Dr. Moosa
133.		Physiological changes during female puberty and menopause	Dr. Moosa
134.		Pregnancy and the physiological changes taking place in the mother	Dr. Moosa
135.		Function of the placenta	Dr. Moosa
136.		Parturition and lactation	Dr. Moosa
137.		Neonatal physiology	Dr. Moosa
138.		Male infertility, Female infertility	Dr. Moosa
139.		Contraception, Basis for pregnancy tests	Dr. Moosa
140.	Endocrine system	Classification of endocrine glands	Dr. Fareed
141.		Mechanism of action, feedback and control of hormonal secretion	Dr. Fareed
142.		Functions of the hypothalamus	Dr. Kamil
143.		Hormones secreted by the anterior and posterior pituitary and their mechanism of action and function	Dr. Kamil
144.		Acromegaly, gigantism and dwarfism	Dr. Kamil
145.		Effects of panhypopituitarism	Dr. Kamil.
146.		Diabetes insipidus.	Dr. Kamil
147.		Function of the thyroid gland	Dr. Asif
148.		Thyrotoxicosis and myxedema	Dr. Asif
149.		Function of the parathyroid gland	Dr. Moosa
150.		Calcium metabolism and its regulation	Dr. Moosa
151.		Secretion and function of calcitonin	Dr. Moosa
152.		Hormones secreted by the adrenal cortex and medulla	Dr. Asif
153.		Pheochromocytoma, Cushing's disease, Adrenogenital syndrome	Dr. Asif
154.		Endocrine functions of the pancreas, Control	Dr. Fareed

		of blood sugar	
155.		Hormones secreted by the gastrointestinal system and their function	Dr. Fareed
156.		Diabetes mellitus and hypoglycemia	Dr. Fareed
157.		Function of the thymus, The endocrine functions of the kidney and Physiology of growth	Dr. Fareed
158.	Nervous system	General organization of the nervous system, Classification of nerve fibers	Dr.Kamil
159.		Properties of synaptic transmission, Function of neurotransmitters and neuropeptides	Dr.Kamil
160.		Type and function of sensory receptors	Dr.Kamil
161.		Function of the spinal cord and ascending tracts, Significance of dermatomes	Dr.Kamil
162.		Reflex action and reflexes	Dr. Sidra
163.		Muscle spindle and muscle tone	Dr. Sidra
164.		Mechanism of touch, temperature and pain	Dr.Kamil
165.		Functions of the cerebral cortex, Difference between the sensory and motor cortex and their functions	Dr. Kamil
166.		Motor pathways including pyramidal and extrapyramidal, Injuries of the spinal cord, Hemiplegia and paraplegia	Dr. Sidra
167.		Basal Ganglia and its functions, parkinsonism	Dr. Sidra
168.		Cerebellum and its function, Effects of cerebellar dysfunction	Dr. Sidra
169.		Control of posture and equilibrium	Dr. Sidra
170.		Physiology of sleep & memory. Mechanism and control of speech	Dr. Sidra
171.		Function of the thalamus, hypothalamus and limbic system	Dr. Sidra
172.		CSF	Dr.Kamil
173.		Mechanism of temperature regulation	Dr. Kamil
174.		Function of the autonomic nervous system and the physiological changes of aging	Dr. Asif
175.	Exercise physiology	Control of internal environment	Dr. Fahad
176.		Hormonal responses to exercise	Dr. Fahad
177.		Measurement of work, power & energy expenditure	Dr. Fahad
178.		Circulatory responses to exercise	Dr. Fahad
179.		Respiration & Temperature regulation during exercise	Dr. Fahad
180.		The Physiology of Training: Effect on Vo2 Max, Performance, Homeostasis and Strength	Dr. Fahad
181.		Work tests to evaluate cardio respiratory fitness	Dr. Fahad
182.		Exercise prescription for health and fitness, Exercise for special populations	Dr. Fahad
183.		Factors affecting performance, Laboratory assessment of human performance	Dr. Fahad
184.		Training of performance	Dr. Fahad

185.		Training for the female athlete, children and special population	Dr. Fahad
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SECOND YEAR DOCTOR OF PHYSICAL THERAPY (DPT-2) PRACTICALS

Sr. No	Unit Name	Topic	Name of Teachers
1.	Nervous system	Examination of superficial and deep reflexes	Dr. Kamil
2.		Brief examination of the motor and sensory system	Dr. Kamil
3.		Examination of the cranial nerves	Dr. Kamil
4.	Special senses	Measurement of the field of vision	Dr. Kamil
5.		Measurement of light reflex	Dr. Kamil
6.		Ophthalmoscopy	Dr. Kamil
7.		Colour vision	Dr. Kamil
8.		Hearing tests	Dr. Kamil
9.		Testing taste & smell	Dr. Kamil
10.	Reproduction	Pregnancy test	Dr. Kamil

SECOND YEAR OPTOMETRY & ORTHOPTICS LECTURE DISTRIBUTION

Sr. No	Topic	Name of Teachers
1.	Introduction to Ophthalmic physiology. Course content, syllabus, books.	Dr. Uzma
2.	Physiological Anatomy of the eye	Dr. Uzma
3.	Development of the Vision – I	Dr. Uzma
4.	Development of the Vision – II	Dr. Uzma
5.	Physiology of the Eye Lid	Dr. Uzma
6.	Physiology of Cornea , Structure & Histological layers of Cornea.	Dr. Uzma
7.	Functions of Cornea, blood, nerve supply, Keratitis, Keratoconus & keratoglobus.	Dr. Uzma
8.	Physiology of Tear film , Composition & Function of each layer.	Dr. Moosa
9.	Composition of the Tears	Dr. Moosa
10.	Physiology of the Lacrimal System	Dr. Moosa
11.	Physiology of Pupil and Reflexes	Dr. Moosa
12.	Physiology of Aqueous Humour	Dr. Uzma
13.	Glaucoma and its types	Dr. Uzma
14.	Physiology of Lens Metabolism	Dr. Uzma
15.	Physiology of Accommodation & Convergence	Dr. Uzma
16.	Physiology of the Retina	Dr. Moosa
17.	Dark and light adaptation	Dr. Moosa
18.	Physiology of the color vision	Dr. Moosa
19.	Physiology of extraocular muscles	Dr. Uzma
20.	Visual pathway	Dr. Uzma
21.	Visual Pigments	Dr. Moosa
22.	Tissue & Organ Transplant	Dr. Uzma

23.	Homeostatic Mechanism of the Eye	Dr. Uzma
24.	Immunity & Allergy	Dr. Uzma

SECOND YEAR OPTOMETRY & ORTHOPTICS PRACTICALS

Sr. No	Topic	Name of Teachers
1.	Determination of visual acuity	Dr. Uzma
2.	Determination of field of vision	Dr. Uzma
3.	Ophthalmoscopy	Dr. Uzma
4.	Testing of colour vision	Dr. Uzma

SECOND YEAR ORTHOTIC & PROSTHETIC SCIENCES LECTURE DISTRIBUTION

Sr. No	Unit Name	Topic	Name of Teachers
1.	Nervous system	General organization of the nervous system, Classification of nerve fibers	Dr.Kamil
2.		Muscle spindle and muscle tone	Dr.Sidra
3.		Properties of synaptic transmission, Function of neurotransmitters and neuropeptides	Dr.Kamil
4.		Functions of the cerebral cortex, Difference between the sensory and motor cortex and their functions	Dr.Sidra
5.		Type and function of sensory receptors	Dr.Sidra
6.		Motor pathways including pyramidal and extrapyramidal, Injuries of the spinal cord, Hemiplegia and paraplegia	Dr.Kamil
7.		Basal Ganglia and its functions, Parkinsonism	Dr. Sidra
8.		Function of the spinal cord and ascending tracts, Significance of dermatomes	Dr.Kamil
9.		Control of posture and equilibrium	Dr. Sidra
10.		Cerebellum and its function, Effects of cerebellar dysfunction	Dr. Sidra
11.		Reflex action and reflexes	Dr. Kamil
12.		Physiology of sleep & memory. Mechanism and control of speech	Dr. Sidra
13.		Function of the thalamus, hypothalamus and limbic system	Dr. Sidra
14.		Mechanism of touch, temperature and pain	Dr. Kamil
15.		CSF	Dr.Kamil
16.		Function of the autonomic nervous system and the physiological changes of aging	Dr. Asif
17.		Mechanism of temperature regulation	Dr. Kamil
18.	Muscle physiology	Skeletal Muscle	Dr.Kamil
19.		Smooth Muscle	Dr. Sidra
20.	Sports physiology	Exercise Physiology I	Dr. Sidra
21.		Exercise Physiology II	Dr. Sidra

SECOND YEAR ORTHOTIC & PROSTHETIC SCIENCES PRACTICALS

Sr. No	Topic	Name of Teachers
1.	Examination of blood pressure	Dr. Kamil
2.	Examination of radial pulse at rest and after exercise	Dr. Kamil
3.	Determination of PCV & ESR	Dr. Kamil
4.	Determination of lung volumes & capacities	Dr. Kamil
5.	Examination of chest for respiratory & cardiovascular system	Dr. Kamil
6.	Examination of superficial & deep reflexes	Dr. Kamil
7.	Examination of cranial nerve	Dr. Kamil
8.	Examination of sensory nervous system	Dr. Kamil
9.	Examination of motor nervous system	Dr. Kamil

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Online Teaching Schedule First Year DPT & BSC (HONS) For the Month of May
Session 2020- 2021

DAY / DATE	LECTURE			PRACTICAL		
	TIME	TOPIC	TEACHER	TIME	TOPIC	TEACHER
Monday/ 3.5.21	10:00 am – 12:00 pm	Skeletal, smooth and cardiac muscle contraction	Dr. Uzma	--	--	--
Wednesday/ 5.5.21	11:00 am – 12:00 pm	Neuromuscular junction and transmission, Excitation contraction coupling	Dr. Uzma	--	--	--
Thursday/ 6.5.21	10:00 am – 11:00 am	Structure and function of motor unit, Myopathies and neuropathies	Dr. Uzma	--	--	--
Friday/ 7.5.21	--	--	--	08:00 am – 09:00 am	Measuring bleeding and clotting time	Dr. Fareed
Monday/ 10.5.21	EID UL FITR HOLIDAY					
Wednesday /12.5.21	EID UL FITR HOLIDAY					
Thursday/ 13.5.21	EID UL FITR HOLIDAY					
Friday/ 14.5.21	EID UL FITR HOLIDAY					
Monday/ 17.5.21	10:00 am – 12:00 pm	Nerve conduction studies and explain their clinical importance, Peripheral nerve injuries	Dr. Fareed			
Wednesday/ 19.5.21	11:00 am – 12:00 pm	General function of gastrointestinal tract, Enteric nervous system	Dr. Aneela	--	--	--
Thursday/ 20.5.21	10:00 am – 11:00 am	Control of gastrointestinal motility and secretion	Dr. Aneela	--	--	--
Friday/ 21.5.21	--	--	--	08:00 am – 09:00 am	RBC count	Dr. Fareed
Monday/ 24.5.21	10:00 am – 12:00 pm	Mastication, Swallowing: mechanism and control, Dysphagia	Dr. Shazia	--	--	--
Wednesday/ 26.5.21	11:00 am – 12:00 pm	Function, motility and secretions of stomach, Physiological basis of acid peptic disease	Dr. Shazia	--	--	--
Thursday/ 27.5.21	10:00 am – 11:00 am	Composition and general functions of blood, Plasma proteins	Dr. Sidra	--	--	--
Friday/ 28.5.21	--	--	--	08:00 am – 09:00 am	Red cell indices	Dr. Fareed
Monday/ 31.5.21	10:00 am – 12:00 pm	Erythropoiesis and red blood cell function	Dr. Sidra	--	--	--

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Online Teaching Schedule First Year DPT & BSC (HONS) For the Month of June
Session 2020- 2021

DAY / DATE	LECTURE			PRACTICAL		
	TIME	TOPIC	TEACHER	TIME	TOPIC	TEACHER
Wednesday/ 2. 6.21	11:00 am – 12:00 pm	Function, production and type of white blood cells	Dr. Muarraf	--	--	--
Thursday/ 3.6.21	10:00 am – 11:00 am	Function, motility and secretions of small and large intestine	Dr. Shazia	--	--	--
Friday/ 4.6.21	--	--	--	08:00 am – 09:00 am	WBC count	Dr. Fareed
Monday/ 7.6.21	10:00 am – 12:00 pm	Blood groups and their role in blood transfusion, Blood grouping and cross matching	Dr. Fahd	--	--	--
Wednesday /9.6.21	11:00 am – 12:00 pm	Components of reticuloendothelial systems, gross and microscopic structure including tonsil, lymph node and spleen	Dr. Muarraf	--	--	--
Thursday/ 10.6.21	10:00 am – 11:00 am	Complications of blood transfusion with reference to ABO & RH incompatibility	Dr. Fahd	--	--	--
Friday/ 11.6.21	--	--	--	08:00 am – 09:00 am	Differential Leukocyte count	Dr. Fareed
Monday/ 14.6.21	10:00 am – 12:00 pm	Mechanism of vomiting and its control pathway, Causes of vomiting	Dr. Aneela	--	--	--
Wednesday/ 16.6.21	11:00 am – 12:00 pm	Development and function of reticuloendothelial system	Dr. Muarraf	--	--	--
Thursday/ 17.6.21	10:00 am – 11:00 am	Defecation and its control pathway, Diarrhea and constipation in clinical settings	Dr. Shazia	--	--	--
Friday/ 18.6.21	--	--	--	08:00 am – 09:00 am	Prothrombin and thrombin time	Dr. Fareed
Monday/ 21.6.21	10:00 am – 12:00 pm	Function & production of platelets, Clotting mechanism of blood	Dr. Fareed	--	--	--
Wednesday/ 23.6.21	11:00 am – 12:00 pm	Clotting disorders	Dr. Fareed	--	--	--
Thursday/ 24.6.21	10:00 am – 11:00 am	Functions of liver	Dr. Aneela	--	--	--
Friday/ 25.6.21	--	--	--	08:00 am – 09:00 am	Cardiopulmonary resuscitation	Dr. Fareed
Monday/ 28.6.21	10:00 am – 12:00 pm	Functions of gallbladder and bile in digestion, Jaundice and liver function tests in clinical settings	Dr. Aneela	--	--	--
Wednesday/30.6.21	11:00 am – 12:00 pm	Endocrine & exocrine pancreas and functions of pancreas in digestion	Dr. Shazia	--	--	--

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule First Year DPT & BSC (HONS) For the Month of July
Session 2020- 2021

DAY / DATE	LECTURE			PRACTICAL		
	TIME	TOPIC	TEACHER	TIME	TOPIC	TEACHER
Thursday/ 1.7.21	10:00 am – 11:00 am	Endocrine & exocrine pancreas and functions of pancreas in digestion	Dr. Shazia	--	--	--
Friday/ 2.7.21	--	--	--	08:00 am – 09:00 am	Examination of arterial pulse	Dr. Fareed
Monday/ 5.7.21	10:00 am – 12:00 pm	Erythropoiesis and red blood cell function, Structure, function, production and different types of haemoglobin	Dr. Fahad	--	--	--
Wednesday /7.7.21	11:00 am – 12:00 pm	Iron absorption storage and metabolism	Dr. Aneela	--	--	--
Thursday/ 8.7.21	10:00 am – 11:00 am	Anemia and its different types, Blood indices in various disorders	Dr. Kamil	--	--	--
Friday/ 9.7.21	--	--	--	08:00 am – 09:00 am	Arterial blood pressure	Dr. Fareed
Monday/ 12.7.21	10:00 am – 12:00 pm	Immunity	Dr. Fareed	--	--	--
Wednesday/ 14.7.21	11:00 am – 12:00 pm	Heart and circulation, Function of cardiac muscle	Dr. Kamil	--	--	--
Thursday/ 15.7.21	10:00 am – 11:00 am	Cardiac pacemaker and cardiac muscle contraction	Dr. Kamil	--	--	--
Friday/ 16.7.21	--	--	--	08:00 am – 09:00 am	Effects of exercise and posture on blood pressure	Dr. Fareed
Monday/ 19.7.21	10:00 am – 12:00 pm	EID UL AZHA HOLIDAY		--	--	--
Wednesday/ 21.7.21	11:00 am – 12:00 pm	EID UL AZHA HOLIDAY	--	--	--	--
Thursday/ 22.7.21	10:00 am – 11:00 am	EID UL AZHA HOLIDAY	--	--	--	--
Friday/ 23.7.21	--	--	--	--	--	--
Monday/ 26.7.21	10:00 am – 12:00 pm	Cardiac cycle , Clinical significance of cardiac cycle	Dr. Kamil	--	--	--
Wednesday/28.7.21	11:00 am – 12:00 pm	ECG: recording and interpretation, Common arrhythmias and its mechanism of development, interpretation of ischemia and arrhythmias	Dr. Fahad	--	--	--
Thursday/ 29.7.21	10:00 am – 11:00 am	Correlation of ECG and heart sounds to cardiac cycle	Dr. Sidra	--	--	--
Friday/ 30.7.21	--	--	--	08:00 am – 09:00 am	Apex beat and normal heart sounds	Dr. Fareed

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule First Year DPT & BSC (HONS) For the Month of August
Session 2020- 2021

DAY / DATE	LECTURE			PRACTICAL		
	TIME	TOPIC	TEACHER	TIME	TOPIC	TEACHER
Monday/ 2.8.21	10:00 am – 12:00 pm	Immunity	Dr. Fareed	--	--	--
Wednesday/ 4.8.21	11:00 am – 12:00 pm	Heart and circulation, Function of cardiac muscle	Dr. Kamil	--	--	--
Thursday/ 5.8.21	10:00 am – 11:00 am	Cardiac pacemaker and cardiac muscle contraction	Dr. Kamil	--	--	--
Friday/ 6.8.21	--	--	--	08:00 am – 09:00 am	Effects of exercise and posture on blood pressure	Dr. Fareed
Monday/ 9.8.21	10:00 am – 12:00 pm	ECG: recording and interpretation, Common arrhythmias and its mechanism of development, interpretation of ischemia and arrhythmias	Dr. Fahad	--	--	--
Wednesday /11.8.21	11:00 am – 12:00 pm	Cardiac cycle , Clinical significance of cardiac cycle	Dr. Sidra / Dr. Kamil	--	--	--
Thursday/ 12.8.21	10:00 am – 11:00 am	Correlation of ECG and heart sounds to cardiac cycle	Dr. Sidra / Dr. Kamil	--	--	--
Friday/13.8.21	--	--	--	--	Apex beat and normal heart sounds	Dr. Fareed
Monday/ 16.8.21	10:00 am – 12:00 pm	Types of blood vessels and their function, Hemodynamics of blood flow, Peripheral resistance its regulation and effect on circulation.	Dr. Sidra / Dr. Kamil		--	
Wednesday/ 18.8.21	11:00 am – 12:00 pm	ASHURA HOLIDAY	--	--	--	--
Thursday/ 19.8.21	10:00 am – 11:00 am	ASHURA HOLIDAY	--	--	--	--
Friday/ 20.8.21	--	--	--	08:00 am – 09:00 am	ECG recording and interpretation I	Dr. Fareed
Monday/ 23.8.21	10:00 am – 12:00 pm	Function of respiratory tract	Dr. Muarraf	--	--	--
Wednesday/ 25.8.21	11:00 am – 12:00 pm	Mechanics of breathing	Dr. Muarraf	--	--	--
Thursday/ 26.8.21	10:00 am – 11:00 am	Blood pressure and its regulation, Effects of hypertension	Dr. Uzma	--	--	--
Friday/ 27.8.21	--	--	--	08:00 am – 09:00 am	ECG recording and interpretation II	Dr. Fareed
Monday/ 30.8.21	10:00 am – 12:00 pm	Arterial pulse	Dr. Kamil	--	--	--

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule First Year DPT & BSC (HONS) For the Month of September
Session 2020- 2021

DAY / DATE	LECTURE			PRACTICAL		
	TIME	TOPIC	TEACHER	TIME	TOPIC	TEACHER
Wednesday/ 1. 9.21	11:00 am – 12:00 pm	Production & function of surfactant, Compliance of lungs	Dr. Muarraf	--	--	--
Thursday/ 2.9.21	10:00 am – 11:00 am	Lung, Protective reflexes, Relationship between ventilation and perfusion	Dr. Muarraf	--	--	--
Friday/ 3.9.21	--	--	--	08:00 am – 09:00 am	Clinical examination of chest I	Dr. Fareed
Monday/ 6.9.21	10:00 am – 12:00 pm	Cardiac output and its control	Dr. Sidra	--	--	--
Wednesday /8.9.21	11:00 am – 12:00 pm	Heart sounds and murmurs Clinical significance of heart sounds	Dr. Uzma	--	--	--
Thursday/ 9.9.21	10:00 am – 11:00 am	Venous return	Dr. Kamil	--	--	--
Friday/ 10.9.21	--	--	--	08:00 am – 09:00 am	Clinical examination of chest II	Dr. Aneela
Monday/ 13.9.21	10:00 am – 12:00 pm	Lung volumes and capacities including dead space, Diffusion of gases across the alveolar membrane	Dr. Muarraf	--	--	--
Wednesday/ 15.9.21	11:00 am – 12:00 pm	Coronary circulation & Effects of ischemia	Dr. Fahd	--	--	--
Thursday/ 16.9.21	10:00 am – 11:00 am	Splanchnic, pulmonary and cerebral circulation, Triple response and cutaneous circulation	Dr. Kamil	--	--	--
Friday/ 17.9.21	--	--	--	08:00 am – 09:00 am	Apex beat and normal heart sounds	Dr. Fareed
Monday/ 20.9.21	10:00 am – 12:00 pm	Microcirculation & capillary fluid exchange, functions of veins	Dr. Sidra	--	--	--
Wednesday/ 22.9.21	11:00 am – 12:00 pm	Blood flow & Shock	Dr. Sidra	--	--	--
Thursday/ 23.9.21	10:00 am – 11:00 am	CLASS TEST	Dr. Sheena Dr. Fareed	--	--	--
Friday/ 24.9.21	--	--	--	08:00 am – 09:00 am	Pulmonary volume, their capacities and clinical interpretation	Dr. Fareed
Monday/ 27.9.21	10:00 am – 12:00 pm	Fetal circulation and circulatory changes at birth	Dr. Kamil	--	--	--
Wednesday/29.9.21	11:00 am – 12:00 pm	Functions of the Endocrine System, The Endocrine Glands and their Hormones	Dr. Kamil	--	--	--
Thursday/ 30.9.21	10:00 am – 11:00 am	Chemical Signals, receptors and hormones	Dr. Kamil	--	--	--

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule First Year DPT & BSC (HONS) For the Month of October
Session 2020- 2021

DAY / DATE	LECTURE			PRACTICAL		
	TIME	TOPIC	TEACHER	TIME	TOPIC	TEACHER
Friday/ 1.10.21	--	--	--	08:00 am – 09:00 am	Stethography	Dr. Fareed
Monday/ 4.10.21	10:00 am – 12:00 pm	The functional areas of the cerebral cortex, Functions of the parts of the brainstem diencephalons, basal nuclei. Limbic System and cerebellum	Dr. Kamil	--	--	--
Wednesday /6.10.21	11:00 am – 12:00 pm	Integumentary System	Dr. Sheena	--	--	--
Thursday/ 7.10.21	10:00 am – 11:00 am	Causes of abnormal ventilation and perfusion. Effects on pneumothorax, pleural effusion, and pneumonia	Dr. Muarraf	--	--	--
Friday/ 8.10.21	--	--	--	08:00 am – 09:00 am	Clinical examination of chest I (Revision)	Dr. Aneela
Monday/ 11.10.21	10:00 am – 12:00 pm	Mechanism of transport of oxygen and carbon dioxide in blood	Dr. Muarraf	--	--	--
Wednesday/13.10.21	11:00 am – 12:00 pm	Functions of various cranial nerves, Functions of the somatic motor nervous system	Dr. Kamil	--	--	--
Thursday/ 14.10.21	10:00 am – 11:00 am	The function of neurons, neurological cells and their components, The function of a synapse and reflex arc	Dr. Kamil	--	--	--
Friday/ 15.10.21	--	--	--	08:00 am – 09:00 am	Clinical examination of chest II (Revision)	Dr. Aneela
Monday/ 18.10.21	10:00 am – 12:00 pm	Nervous and chemical regulation of respiration, Abnormal breathing, Hypoxia & cyanosis	Dr. Muarraf	--	--	--
Wednesday/20.10.21	11:00 am – 12:00 pm	Functions of the autonomic nervous system	Dr. Asif	--	--	--
Thursday/ 21.10.21	10:00 am – 11:00 am	Clinical significance of hypoxia, cyanosis, and dyspnoea, Respiratory failure	Dr. Muarraf	--	--	--
Friday/ 22.10.21	--	--	--	08:00 am – 09:00 am	Use of the microscope (revision)	Dr. Fareed
Monday/ 25.10.21	10:00 am – 12:00 pm	Artificial respiration and uses& effects of O2 therapy, Clinical importance of lung function tests	Dr. Muarraf	--	--	--
Wednesday/27.10.21	11:00 am – 12:00 pm	Functions of the internal, middle and external ear	Dr. Asif	--	--	--
Thursday/ 28.10.21	10:00 am – 11:00 am	Physiology of the hearing and balance	Dr. Asif	--	--	--
Friday/ 29.10.21	--	--	--	08:00 am – 09:00 am	Determination of hemoglobin (revision)	Dr. Fareed

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Online Teaching Schedule Second Year DPT For the Month of May
Session 2019- 2020

DAY / DATE	LECTURE		
	TIME	TOPIC	TEACHER
Tuesday / 4.5.21	12:00 – 02:00 pm	Components and quantitative measurements of body fluids, Fluid compartments, tissue and lymph fluid	Dr. Muarraf
Thursday / 6.5.21	12:00 – 02:00 pm	Function of the male reproductive system, Spermatogenesis	Dr. Moosa
Friday / 7.5.21	09:30 – 11:00 am	Production and function of testosterone and Physiological changes during male puberty	Dr. Moosa
Tuesday / 11.5.21	12:00 – 02:00 pm	EID -UL-FITR HOLIDAY	
Thursday / 13.5.21	12:00 – 02:00 pm	EID -UL-FITR HOLIDAY	
Friday / 14.5.21	09:30 – 11:00 am	EID -UL-FITR HOLIDAY	
Tuesday / 18.5.21	12:00 – 02:00 pm	Structure of the kidney and nephron, General function of the kidney, GFR and its regulation	Dr. Muarraf
Thursday / 20.5.21	12:00 – 01:00 pm	Formation of urine including filtration, re-absorption and secretion	Dr. Muarraf
	1:00 – 2:00pm	Water and electrolyte balance with reference to the kidney	Dr. Sidra
Friday / 21.5.21	09:30 – 11:00 am	Role of the kidney in blood pressure regulation	Dr. Muarraf
Tuesday / 25.5.21	12:00 – 2:00pm	Mechanism of concentration and dilution of urine, Plasma clearance	Dr. Sidra
Thursday / 27.5.21	12:00 – 2:00pm	Function of the female reproductive system, Production and function of estrogen, and progesterone	Dr. Sheena
Friday / 28.5.21	09:30 – 11:00 am	Acid base balance with reference to the kidney	Dr. Sidra

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Online Teaching Schedule Second Year DPT For the Month of June
Session 2019- 2020

DAY / DATE	LECTURE		
	TIME	TOPIC	TEACHER
Tuesday / 1.6.21	12:00 – 02:00 pm	Hormonal functions of the kidney	Dr. Muarraf
Thursday / 3.6.21	12:00 – 02:00 pm	Menstrual cycle	Dr. Sheena
Friday / 4.6.21	09:30 – 11:00 am	Acidification of urine and its importance	Dr. Muarraf
Tuesday / 8.6.21	12:00 – 02:00 pm	Micturition and its control, Abnormalities of micturition	Dr. Muarraf
Thursday / 10.6.21	12:00 – 02:00 pm	Physiological changes during female puberty and menopause	Dr. Shazia
Friday / 11.6.21	09:30 – 11:00 am	Pregnancy and the physiological changes taking place in the mother	Dr. Moosa
Tuesday / 15.6.21	12:00 – 02:00 pm	Fluid excess and depletion	Dr. Muarraf
Thursday / 17.6.21	12:00 – 01:00 pm	Function of the placenta	Dr. Shazia
	1:00 – 2:00pm	Neonatal physiology	Dr. Moosa
Friday / 18.6.21	09:30 – 11:00 am	Parturition and lactation	Dr. Sheena
Tuesday / 22.6.21	12:00 – 2:00pm	Male infertility, Female infertility	Dr. Moosa
Thursday / 24.6.21	12:00 – 2:00pm	Contraception, Basis for pregnancy tests	Dr. Moosa
Friday / 25.6.21	09:30 – 11:00 am	Pregnancy test (practical)	Dr. Kamil
Tuesday / 29.6.21	12:00 – 2:00pm	Renal function tests and their clinical importance, Renal failure and dialysis	Dr. Muarraf

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule Second Year DPT For the Month of July
Session 2019- 2020

DAY / DATE	LECTURE		
	TIME	TOPIC	TEACHER
Thursday / 1.7.21	12:00 – 02:00 pm	Renal function tests and their clinical importance, Renal failure and dialysis	Dr. Muarraf
Friday / 2.7.21	09:30 – 11:00 am	Metabolic acidosis and alkalosis	Dr. Sidra
Tuesday / 6.7.21	12:00 – 02:00 pm	Classification of endocrine glands, Mechanism of action, feedback and control of hormonal secretion	Dr. Fareed
Thursday / 8.7.21	12:00 – 02:00 pm	Functions of the hypothalamus	Dr. Kamil
Friday / 9.7.21	09:30 – 11:00 am	Hormones secreted by the anterior and posterior pituitary and their mechanism of action and function	Dr. Kamil
Tuesday / 13.7.21	12:00 – 02:00 pm	Acromegaly, gigantism and dwarfism, Effects of panhypopituitarism, Diabetes insipidus	Dr. Kamil
Thursday / 15.7.21	12:00 – 01:00 pm	Function of the parathyroid gland, Calcium metabolism and its regulation	Dr. Muarraf
	1:00 – 2:00pm	Secretion and function of calcitonin	Dr. Muarraf
Friday / 16.7.21	09:30 – 11:00 am	Measurement of the field of vision (PRACTICAL)	Dr. Kamil
Tuesday / 20.7.21	12:00 – 2:00pm	EID UL AZHA HOLIDAY	--
Thursday / 22.7.21	12:00 – 2:00pm	EID UL AZHA HOLIDAY	--
Friday / 23.7.21	09:30 – 11:00 am	EID UL AZHA HOLIDAY	--
Tuesday / 27.7.21	12:00 – 2:00pm	Function of the thyroid gland	Dr. Asif
Thursday / 29.7.21	12:00 – 02:00 pm	Thyrotoxicosis and myxedema	Dr. Asif
Friday / 30.7.21	09:30 – 11:00 am	Measurement of light reflex (PRACTICAL)	Dr. Kamil

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule Second Year DPT For the Month of August
Session 2019- 2020

DAY / DATE	LECTURE		
	TIME	TOPIC	TEACHER
Tuesday / 3.8.21	12:00 – 02:00 pm	Acromegaly, gigantism and dwarfism, Effects of panhypopituitarism, Diabetes insipidus	Dr.Kamil
Thursday / 5.8.21	12:00 – 01:00 pm	Function of the parathyroid gland, Calcium metabolism and its regulation	Dr. Muarraf
	01:00—02:00 pm	Secretion and function of calcitonin	Dr. Muarraf
Friday / 6.8.21	09:30 – 11:00 am	Measurement of the field of vision (PRACTICAL)	Dr.Kamil
Tuesday / 10.8.21	12:00 – 02:00 pm	Function of the thyroid gland , Thyrotoxicosis and myxedema	Dr. Asif
Thursday / 12.8.21	12:00 –02:00 pm	Hormones secreted by the adrenal cortex and medulla, Pheochromocytoma, Cushing’s disease, Adrenogenital syndrome	Dr.Asif
Friday / 13.8.21	09:30 – 11:00 am	Measurement of light reflex (PRACTICAL)	Dr.Kamil
Tuesday / 17.8.21	12:00 – 02:00 pm	Endocrine functions of the pancreas, Control of blood sugar, Diabetes mellitus and hypoglycemia	Dr. Fareed
Thursday / 19.8.21	12:00 –02:00 pm	ASHURA HOLIDAY	
Friday / 20.8.21	09:30 – 11:00 am	Ophthalmoscopy (PRACTICAL)	Dr.Kamil
Tuesday / 24.8.21	12:00 – 2:00pm	Hormones secreted by the gastrointestinal system and their function	Dr. Aneela
Thursday / 26.8.21	12:00 – 2:00pm	Function of the thymus, The endocrine functions of the kidney and Physiology of growth	Dr. Fareed
Friday / 27.8.21	09:30 – 11:00 am	Colour Vision (PRACTICAL)	Dr.Kamil
Tuesday / 31.8.21	12:00 – 2:00pm	General organization of the nervous system, Classification of nerve fibers	Dr.Kamil

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule Second Year DPT for the Month of September
Session 2019- 2020

DAY / DATE	LECTURE / PRACTICAL		
	TIME	TOPIC	TEACHER
Thursday / 2-9-21	12:00 – 02:00 pm	Properties of synaptic transmission, Function of neurotransmitters and neuropeptides	Dr.Kamil
Friday / 3-9-21	09:30 – 11:00 am	Type and function of sensory receptors	Dr.Kamil
Tuesday / 7-9-21	12:00 – 02:00 pm	ENDOCRINOLOGY CLASS TEST	Dr.Asif, Dr. Fareed
Thursday / 9-9-21	12:00 – 02:00 pm	Control of internal environment	Dr.Fahad .
Friday / 10-9-21	09:30 – 11:00 am	Function of the spinal cord and ascending tracts, Significance of dermatomes	Dr.Kamil
Tuesday / 14-9-21	12:00 – 02:00 pm	Reflex action and reflexes	Dr. Sidra
Thursday /16-9-21	12:00 – 02:00 pm	Muscle spindle and muscle tone	Dr. Sidra
Friday / 17-9-21	09:30 – 11:00 am	Hearing tests (PRACTICAL)	Dr.Kamil
Tuesday / 21-9-21	12:00 – 02:00 pm	Mechanism of touch, temperature and pain	Dr.Kamil
Thursday / 23-9-1	12:00 – 02:00 pm	Functions of the cerebral cortex, Difference between the sensory and motor cortex and their functions	Dr.Sidra
Friday / 24-9-21	09:30 – 11:00 am	Hormonal responses to exercise	Dr.Fahad
Tuesday / 28-9-21	12:00 – 02:00 pm	Motor pathways including pyramidal and extrapyramidal, Injuries of the spinal cord, Hemiplegia and paraplegia	Dr. Sidra
Thursday /30-9-21	12:00 – 02:00 pm	Basal Ganglia and its functions, Parkinsonism	Dr. Sidra

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule Second Year DPT for the Month of October
Session 2019- 2020

DAY / DATE	LECTURE / PRACTICAL		
	TIME	TOPIC	TEACHER
Friday / 1-10-21	09:30 – 11:00 am	Testing taste and smell (PRACTICAL)	Dr.Kamil
Tuesday / 5-10-21	12:00 – 02:00 pm	Measurement of work, power & energy expenditure	Dr.Fahad
Thursday / 7-10-21	12:00 – 02:00 pm	Cerebellum and its function, Effects of cerebellar dysfunction	Dr. Sidra
Friday / 8-10-21	09:30 – 11:00 am	Brief examination of the sensory nervous system	Dr.Kamil
Tuesday / 12-10-21	12:00 – 02:00 pm	Circulatory responses to exercise	Dr.Fahad
Thursday /14-10-21	12:00 – 02:00 pm	Control of posture and equilibrium	Dr. Sidra
Friday / 15-10-21	09:30 – 11:00 am	Brief examination of the motor nervous system	Dr.Kamil
Tuesday / 19-10-21	12:00 – 02:00 pm	EID MILAD UN NABI HOLIDAY	
Thursday / 21-10-1	12:00 – 02:00 pm	Physiology of sleep & memory. Mechanism and control of speech	Dr. Asif
Friday / 22-10-21	09:30 – 11:00 am	Respiration & Temperature regulation during exercise	Dr.Fahad
Tuesday / 26-10-21	12:00 – 02:00 pm	The Physiology of Training: Effect on Vo2 Max, Performance, Homeostasis and Strength	Dr.Fahad
Thursday /28-10-21	12:00 – 02:00 pm	Function of the thalamus, hypothalamus and limbic system	Dr. Muarraf
Friday / 29-10-21	09:30 – 11:00 am	Mechanism of temperature regulation	Dr. Asif

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule Second Year Orthotic & Prosthetic Sciences for the Month of September
Session 2019- 2020

DAY / DATE	LECTURE / PRACTICAL		
	TIME	TOPIC	TEACHER
Wednesday / 15.9.21	09:00 – 11:00 am	General organization of the nervous system, Classification of nerve fibers	Dr.Kamil
Thursday / 16.9.21	12:00 – 02:00 pm	Muscle spindle and muscle tone	Dr.Sidra
Saturday / 18.9.21	11:00 – 01:00 pm	Examination of superficial and deep reflexes. Brief examination of the motor and sensory system. (PRACTICAL)	Dr.Kamil
Wednesday / 22.9.21	09:00 – 11:00 am	Properties of synaptic transmission, Function of neurotransmitters and neuropeptides	Dr.Kamil
Thursday / 23.9.21	12:00 – 02:00 pm	Functions of the cerebral cortex, Difference between the sensory and motor cortex and their functions	Dr.Sidra
Saturday / 25.9.21	11:00 – 01:00 pm	Type and function of sensory receptors	Dr.Sidra
Wednesday / 29.9.21	09:00 – 11:00 am	Motor pathways including pyramidal and extrapyramidal, Injuries of the spinal cord, Hemiplegia and paraplegia	Dr. Sidra
Thursday / 30.9.21	12:00 – 02:00 pm	Basal Ganglia and its functions, Parkinsonism	Dr. Sidra

DEPARTMENT OF PHYSIOLOGY
RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule Second Year Orthotic & Prosthetic Sciences for the Month of October
Session 2019- 2020

DAY / DATE	LECTURE / PRACTICAL		
	TIME	TOPIC	TEACHER
Saturday / 2.10.21	11:00 – 01:00 pm	Examination of the cranial nerves (PRACTICAL)	Dr.Kamil
Wednesday / 6.10.21	09:00 – 11:00 am	Skeletal Muscle	Dr.Kamil
Thursday / 7.10.21	12:00 – 02:00 pm	Cerebellum and its function, Effects of cerebellar dysfunction	Dr. Sidra
Saturday / 9.10.21	11:00 – 01:00 pm	Function of the spinal cord and ascending tracts, Significance of dermatomes	Dr.Kamil
Wednesday / 13.10.21	09:00 – 11:00 am	Reflex action and reflexes	Dr. Kamil
Thursday / 14.10.21	12:00 – 02:00 pm	Control of posture and equilibrium	Dr. Sidra
Saturday / 16.10.21	11:00 – 01:00 pm	Examination of radial pulse at rest and after exercise (PRACTICAL)	Dr.Kamil
Wednesday / 20.10.21	09:00 – 11:00 am	Mechanism of touch, temperature and pain	Dr. Kamil
Thursday / 21.10.21	12:00 – 02:00 pm	Physiology of sleep & memory. Mechanism and control of speech	Dr. Asif
Saturday / 23.10.21	11:00 – 01:00 pm	Smooth Muscle	Dr. Sidra
Wednesday / 27.10.21	09:00 – 11:00 am	CLASS TEST	Dr. Fahd, Dr.Aneela
Thursday / 28.10.21	12:00 – 02:00 pm	Function of the thalamus, hypothalamus and limbic system	Dr. Muarraf
Saturday / 30.10.21	11:00 – 01:00 pm	Determination of PCV & ESR (PRACTICAL)	Dr.Kamil

DEPARTMENT OF PHYSIOLOGY, RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule 2nd Year Optometry & Orthoptics For the Month of September
Session 2019- 2020

Day / Date	Time	Topic	Teacher
Tuesday/ 14.9.21	08:00am – 9:00 am	Introduction to Ophthalmic physiology. Course content, syllabus, books. Physiological Anatomy of the eye	Dr. Izzah
Saturday/ 18.9.21	10:00am - 11:00 am	Physiology of Aqueous Humour, Glaucoma and its types	Dr. Iqra
Monday/ 20.9.21	12:00 pm – 02:00 pm	Physiology of the Eye Lid	Dr. Maryam
Tuesday/ 21.9.21	09:00am – 11:00 am	Physiology of Cornea , Structure & Histological layers of Cornea. Functions of Cornea, blood, nerve supply, Keratitis, Keratoconus & keratoglobus.	Dr. Nayab
Saturday/ 25.9.21	10:00am - 11:00 am	Physiology of Tear film , Composition & Function of each layer. Composition of the Tears	Dr. Moosa
Monday/ 27.9.21	12:00pm – 02:00 pm	Physiology of the Lacrimal System	Dr. Moosa
Tuesday/ 28.9.21	09:00am – 11:00 am	Physiology of Pupil and Reflexes	Dr. Moosa

DEPARTMENT OF PHYSIOLOGY, RAWALPINDI MEDICAL UNIVERSITY
Teaching Schedule 2nd Year Optometry & Orthoptics for the Month of October
Session 2019- 2020

Day / Date	Time	Topic	Teacher
Saturday/ 2.10.21	10:00am - 11:00 am	Physiology of Pupil and Reflexes	Dr. Moosa
Monday/ 4.10.21	12:00pm – 02:00 pm	Biodata forms	Dr.Uzma
Tuesday/ 5.10.21	09:00am - 11:00 am	Physiology of Lens Metabolism	Dr.Uzma
Saturday/ 9.10.21	10:00am - 11:00 am	Physiology of Accommodation & Convergence	Dr. Uzma
Monday/ 11.10.21	12:00pm – 02:00 pm	Physiology of the Retina	Dr. Moosa
Tuesday/ 12.10.21	09:00am - 11:00 am	Dark and light adaptation	Dr. Moosa
Saturday/ 16.10.21	10:00am - 11:00 am	Physiology of the color vision	Dr. Moosa
Monday/ 18.10.21	12:00pm – 02:00 pm	Physiology of extraocular muscles	Dr. Uzma
Tuesday/ 19.10.21	09:00am - 11:00 am	EID MILAD UN NABI HOLIDAY	--
Saturday/ 23.10.21	10:00am - 11:00 am	CLASS TEST	Dr. Uzma
Monday/ 25.10.21	12:00pm – 02:00 pm	Visual pathway	Dr. Uzma
Tuesday/ 26.10.21	09:00am - 11:00 am	Development of the Vision	Dr. Uzma
Saturday/ 30.10.21	10:00am - 11:00 am	Determination of visual acuity (PRACTICAL)	Dr. Uzma

Note: Timetables for the month of November & December will be available soon.

RESULTS OF CLASS TESTS 1ST AND 2ND YEAR AHS

SR. #	DATE	ASSESSMENT	PASS PERCENTAGE
1	30.6.2021	1 st year AHS class test	69%
2	23.9.2021	1 st year AHS class test	Result awaited
3	29.6.2021	2 nd year DPT class test	97%
4	21.10.2021	2 nd year DPT class test (to be held on 21.10.2021)	
5	23.10.21	2 nd year Optometry (to be held on 23.10.21)	
6	29.10.21	2 nd year Orthotics (to be held on 29.10.21)	