

AL-ALEEM MEDICAL COLLEGE / GULAB DEVI TEACHING HOSPITAL LAHORE



DEPARTMENT OF PHYSIOLOGY



VISION.

To instill life-long learning in a student-centered training environment conducive to research that will enhance the health of any community world-wide.

MISSION.

We at the department of Physiology aim to:

- Do our best in instilling virtue, professionalism and competence in our under and post graduate trainees.
- Foster an evidence-based research culture in the teaching and learning of Physiology.
- Provide a working environment based on respect; valuing individual contributions empowering team work.

PHYSIOLOGY



Study Guide: 1st and 2nd Year MBBS.

Introduction:

Gulab Devi Chest Hospital is one of the oldest Cardiothoracic Hospitals in South Asia. The hospital is run by Gulab-Devi Trust Hospital specialized in the treatment of respiratory diseases, particularly tuberculosis. The hospital was established in 1934 by the late Lala Lajpat Rai in the memory of his mother, Gulab Devi, who died due to tuberculosis in 1927. Now the hospital has expanded to include a teaching hospital with 1500 beds and includes all disciplines.

The institute is attached to Al-Aleem Medical College, affiliated with University of Health Sciences, Lahore. Physiology is among the basic medical subjects and hence has been established with the required infrastructure, professional and qualified faculty. The student will be attending the Physiology academic session for the first two years of the five year course. The study guide provides all the information required in addition to the guidance provided by the Dean / HOD and Professor, Dept. of Physiology.



CONTENT.

Physiology Syllabus of University of Health Sciences for 1st Year MBBS:

- I. Basic and Cell Physiology.
- II. Blood Physiology.
- III. Nerve and Muscle Physiology.
- IV. Cardiovascular System.
- V. Respiratory System, Deep Sea Diving and Altitude Physiology.
- VI. Skin and Body Temperature.

Physiology Syllabus of University of Health Sciences for 2nd Year MBBS:

- I. Special Senses.
- II. Central Nervous System.
- III. Gastrointestinal Physiology.
- IV. Body Fluids and Renal Physiology.
- V. Endocrinology.
- VI. Reproductive Physiology.

ACTIVITIES.

Department of physiology will be conducting the academic session with a number of modes of activities, namely:

1. Interactive Lectures / Large Class Format.
2. Small group discussions / Problem based learning / Team based learning / Flipped classroom techniques / Case Based Learning.
3. Hands-on practical approach in the laboratory / Case Based Learning.
4. Computer assisted practical / patient examination by the Data Acquisition System.
5. Research oriented / Evidence based clinical approach.
6. Skill laboratory based training of clinical methods on models / patients.

ASSESSMENT.

MBBS First Professional (Part-I and Part II): Physiology Assessment.

Written Paper:

Total Marks: 90.

Multiple Choice Questions: 45 marks. ONE best type = 45 (1 mark each).

Short Essay Questions: 45 marks. 9 (5 marks each).

Objectively Structured Performance Evaluation (OSPE)

Total Marks: 90.

The structure of OSPE/Practical / Viva should be as follows:

- Viva Voce (35 Marks)
 - Internal ----- 15 Marks
 - External----- 20 Marks
- OSPE (25 Marks)
 - Non – Observed Station 10 of 01 Mark each (2 Minutes each)
 - Observed Stations 03 of 05 Marks each (4 Minutes each)
- Practical (30 Marks)
 - Practical 20 Marks
 - Procedure Writing 05 Marks
 - Practical Notebook 05 Marks

Internal Assessment: 10+ 10 = 20 marks for each year.

(Based on overall attendance, behavior, attitude and discipline exhibited by student).

MANAGEMENT.

The academic activities will be held at the following venues:

- 1st year MBBS lecture theatre: 1st floor of the college building.
- 2nd year MBBS lecture theatre: 2nd floor of the college building.
- 1st and 2nd year practical sessions: Physiology Laboratory; 1st floor of the college building.
- Small group discussion sessions: Small group discussion room, Physiology Laboratory and respective lecture theatre.
- Computer assisted practical / patient examination by the Data Acquisition System: Physiology Laboratory.
- Skill laboratory for hands-on clinical learning.

Dept. of Physiology, Al-Aleem Medical College, GDEC. Lahore:

**Prof. Dr. Naila
Hamid.**

**Prof. Dr. Madiha
Ahmad.**

Faculty.

2nd year MBBS management team.

Dr. Wardah Anwar.
Assistant Professor.

Dr. Zainab Farooq.

Dr. Faiza Anwar

Dr. Jawaria Ilyas.

Dr. Syed Rashid Hassan.

1st year MBBS management team.

Dr. Ambreen Anjum.
Assistant Professor.

Dr. Naila Ikram.

Dr. Maryam Ejaz.

Dr. Natasha Zahid

Dr. Naima Khalid

Recommended books:

1. Textbook of Physiology by Guyton and Hall, Latest Ed.
2. Review of Medical Physiology by William F. Ganong, Latest Ed.
3. Physiology by Berne and Levy, Latest Ed.
4. Human Physiology: The Basis of Medicine by Gillian Pocock,
5. Christopher D. Richards, Latest Ed.
6. Physiological Basis of Medical Practice by John B. West and Taylor. 12th Ed.

Institutional Library:

List of Physiology Books available in library:

| Sr.# | Title | Author | Copies |
|------|---|-------------------|--------|
| 1 | Textbook of Medical Physiology- 13th Edition | Guyton & Hall | 30 |
| 2 | Ganong's Review of Medical Physiology | Barrett | 15 |
| 3 | Physiology | Berne and Levy | 06 |
| 4 | A Text book of Practical Physiology-7th edition | GL Ghai | |
| 5 | Medical Physiology Vol-1 & VOL-2 | Mushtaq Ahmad | 10 set |
| 6 | Rapid Review Physiology | Brown Thomas A | |
| 7 | Pretest Physiology-12th Edition | Petericia Metting | |
| 8 | Pulmonary Physiology and Patho-physiology | West Johan B | |
| 9 | Basis of Clinical Physiology Vol. 1 & 2 | Akram | 04 |
| 10 | Human Physiology An Integrated Approach 5th Edition | Silverthorn | |
| 11 | Medical Physiology For Undergraduate Students | Khurana | |
| 12 | Principles of Human Physiology | Sherwood | 10 |
| 13 | Viva Voce In Physiology | Sembulingam | |