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## **FOREWORD**

It is a great pleasure to invite you to the First Year in this Medical College. We always look forward to our fresh entry, as they bring with them hope for a better tomorrow. They are the students who will be the future doctors treating our country's population and in many cases ourselves. This puts upon us and the students a great responsibility. The college is looking forward to provide students a fertile ground on which they may grow, providing them with stimulating lectures, state of the art facilities, including e-library and multimedia presentations. The college strives to develop the mind of our young doctors so that they are not only groomed to be the best of the best but also the college cherishes to inculcate in them the necessary medical ethics in order to ensure that graduates of this college are professional, caring and responsible doctors of the future. Wishing you the best for the next five years.

**Principal**

## MBBS PROGRAMME SYLLABUS

1st & 2nd Year	3rd Year	4th Year	Final Year
<p><b>1. Anatomy</b></p> <ul style="list-style-type: none"> <li>• General &amp; Gross Anatomy</li> <li>• Histology</li> <li>• Embryology</li> </ul> <p><b>2. Physiology</b></p> <p><b>3. Biochemistry</b></p> <p><b>4. Behavioral Sciences</b></p> <ul style="list-style-type: none"> <li>• Communication</li> <li>• Skills and Research</li> <li>• Research Methodology</li> </ul> <p><b>5. Islamic &amp; Pakistan Studies</b></p> <p><b>6. Laboratory</b></p> <ul style="list-style-type: none"> <li>• Instruction</li> <li>• Dissection on cadavers</li> <li>• Histology</li> <li>• Physiology</li> <li>• Biochemistry</li> </ul> <p><b>Clinical / Hospital Visits/</b></p>	<p><b>1. General Pathology</b></p> <ul style="list-style-type: none"> <li>• Bacteriology</li> <li>• Parasitology</li> </ul> <p><b>2. Pharmacology and Therapeutics</b></p> <p><b>3. Forensic Medicine and Toxicology</b></p> <p><b>4. Behavioral Sciences</b></p> <ul style="list-style-type: none"> <li>• Communication Skills and Research Methodology</li> </ul> <p><b>Instructional, Interactive teaching, practical training, bedside learning and teaching in the subjects of</b></p> <ul style="list-style-type: none"> <li>• Surgery and allied specialties</li> <li>• Medicine and allied specialties</li> </ul>	<p><b>1. Special Pathology Hematology and Clinical Chemistry</b></p> <p><b>2. Community Medicine</b></p> <p><b>3. Ophthalmology</b></p> <p><b>4. ENT</b></p> <p><b>Instructional, Interactive teaching, practical training, bedside learning and teaching in the subjects of</b></p> <ul style="list-style-type: none"> <li>• Ophthalmology</li> <li>• ENT</li> <li>• Surgery and allied specialties</li> <li>• Medicine and allied specialties</li> </ul>	<p><b>1. Medicine &amp; Allied Specialties</b></p> <p><b>2. Surgery and Allied Specialties</b></p> <p><b>3. Obstetrics &amp; Gynaecology</b></p> <p><b>4. Paediatrics</b></p> <p><b>Instructional, Interactive teaching, practical training, bedside learning and teaching in the subjects of</b></p> <ul style="list-style-type: none"> <li>• Internal Medicine</li> <li>• General Surgery</li> <li>• Obstetrics &amp; Gynaecology</li> <li>• Paediatrics</li> <li>• Psychiatry</li> <li>• Dermatology</li> <li>• Pulmonology</li> <li>• Anaesthesia</li> <li>• Orthopedics</li> <li>• Urology</li> <li>• Neurosurgery</li> <li>• Trauma and Emergency Care</li> <li>• Radiology</li> <li>• Other Sub-specialties like Oncology, Cardiology, Nephrology etc</li> </ul>

**SUBJECTS TO BE EXAMINED**

1st Professional	2 <sup>nd</sup> Professional	3 <sup>rd</sup> Professional	Final Professional
<b>Part I</b>	1. General Pathology, Bacteriology Parasitology 2. Basic Pharmacology and Therapeutics 3. Forensic Medicine and Toxicology 4. Behavioral Sciences including Communication Skills	1. Special Pathology Including Haematology and Clinical Chemistry 2. Community Medicine including Research Projects and Household Survey 3. Ophthalmology 4. ENT	1. Medicine and Allied Specialties 2. Surgery and Allied Specialties 3. Obstetrics & Gynaecology 4. Paediatrics
1. Anatomy 2. Physiology 3. Biochemistry			
<b>Part II</b>			
1. Anatomy 2. Physiology 3. Biochemistry 4. Pakistan Studies 5. Islamic Studies			

## **GRAND SCHEME**

In the next five years your teaching schedules will primarily comprise of the Pre-clinical and Clinical Sciences. As newer techniques in medical education are evolving, we are gradually shifting to an integrated approach to medical education. In this approach you will experience exposure to clinical science subjects, simulated patients and actual community, starting from the first year so that you can understand the practical application of the knowledge that you are gaining. Medical College differs a lot from primary education as you are expected to keep up with the curricula throughout the year. It is expected from you that you will initiate self-learning and will be proactive in seeking help in topics where required from various sources including the internet.

The next five years are aimed to develop you to be responsible, caring and professional physicians. Character development occurs as you interact with your peers, faculty, college administration and most importantly general population and patients. We aim to ensure that our graduates are recognized throughout their career not only by their excellence in their field but also by the humane qualities one expects to see in a good doctor. The key element is to give respect and to receive respect.

### **Teaching and Learning Strategies**

IMC, since inception has striven to keep up to date in offering quality education. In this respect different departments are innovatively adopting new educational strategies to facilitate student knowledge in interesting ways. The example of such strategies are as follows:

#### **Clinical Conferences**

The basic departments (Anatomy, Physiology, and Biochemistry) in an effort to infuse horizontal and vertical integration in a traditional subject based system, introduced Clinico-Basic conferences every alternate Wednesday. These conferences are conducted for first and second year students. They involve clinical specialties according to basic content thus enhancing the student learning to improve application of knowledge.

The clinical years under the Department of Medicine conduct Clinico-Pathological Conferences for fourth and final year students, every Saturday morning in the Auditorium.

#### **Early Clinical Exposure (ECE)**

Exposing newly inducted medical students of first and second years to the clinical side is a stepping stone to vertically integrate the educational system with horizontal basics. Main goal is orientation of these pre-clinical students with different modalities that are encountered in clinical content.

#### **Peer Assisted Learning (PAL)**

An innovative strategy adopted by Department of Community Medicine conducted every Thursday to inculcate in students the skills of self-learning, communication, collaboration, problem solving and leadership. The students act as tutors, organizers and information seekers.

#### **Personal Tutorial System (PTS)**

The students are divided into groups, every group being made of a proportion of students from each class. The group tutors will comprise senior faculty members from the institution. A student once placed in a group will

remain in that group until he/she graduates. The tutor in charge of the group will meet the respective group of students according to the schedule drawn by the head or the institution. The objective of the personal tutorial group meetings is to keep the faculty and students in contact with one another to promote mutual good feelings and understanding. Each tutor looks personally into all difficulties of the students in the tutorial group.

### **Skills Lab**

IMC has developed state of the art clinical skills laboratory for hands on training. The college has a separate designated area for this purpose. The laboratory has purpose built equipment designed for small group teaching and learning sessions. Adequate number of manikins, models and simulators are available for interactive teaching. The students are being taught from the first to final year. At present 72 essential skills are being taught to the medical students in five years. Work is being done to provide access to all the teaching and learning material including procedural videos to the students through internet.

It is mandatory for all students to attend clinical subjects of final year as part of internal evaluation and a certificate of successful completion of the session is issued at the end of final year.

### **Educational Research**

Research leading to publications has been encouraged in IMC among students, with national and international publications in renowned journals.

### **Team Based Learning (TBL)**

Team Based Learning is an active learning instructional strategy for which students will have opportunities to apply concept through individual work, team work with immediate feedback. It is learner centered, engaging students with problems which they will encounter in clinical practice.

Different departments conducted TBL for appropriate content in last years as Pathology, Forensic and Urology. Near future other departments are thinking on these lines of conducting TBL.

## **FACILITIES**

IMC offers the students various facilities which are as follows:

### **Hostel Facilities**

Hostels are adjacent to the college grounds and are built on an area of 36 canals covering 108000 sq. ft. The hostels consist of three blocks, one each for girls, boys and internees. There are security guards on duty for all hostel blocks round the clock. Two standby generators are available to ensure electricity supplied during load shedding but heavy electrical appliances are not allowed to be run on them.

Hostel Committee is responsible for the hostel affairs headed by Chief Executive Officer and comprising Director Administrator, Director Finance and Accounts and the Warden. In boys' hostel, the administrators are the Assistant Wardens. In girl's hostel, there is Warden, Assistant Warden and a housekeeper. Boarders from other cities should report to the Warden and Assistant Warden in the premises of hostel. The rooms will be allocated to the students on the same day. Wi-Fi connectivity is available in hostels.

Proper attendance is marked daily, absentees are immediately notified to the Warden/Chairperson hostel committee. The external boundary is fenced by electrical wire to ensure safety of boarders. Visitors coming to the hostel must deposit identification at reception before entering hostel.

### **First Aid**

A first aid facility is maintained by emergency Department of independent University Hospital. A variety of first-aid services & Medicines is available, free of cost.

## **REGULATIONS**

### **Academic Regulations**

Mandatory compliance is expected of the rules and regulations vide: Undertaking given on admission. All fines imposed and disciplinary actions taken will be mentioned on college leaving certificate.

### **Disciplinary Regulations**

The students are expected to observe the following regulations in letter and spirit. Violating these regulations will result in fine, rustication, expulsion or any other punitive measure as deemed necessary by college administration.

1. Ragging is strictly prohibited. Anyone found guilty will be imposed with a heavy fine and other disciplinary actions including rustication/ expulsion from college/ hostel.
2. The students should wear white coat and their I.D tags all the time during academic hours.
3. Roaming in college premises is prohibited.
4. The appearance and dress code must be in accordance with the accepted norms and dignity of profession. The following are not allowed:
  - a. Extreme hair styles
  - b. Revealing clothes
  - c. Visible body parts
  - d. Body and face jewelry (except small ear studs, necklace and simple ring)
  - e. Untidy dress
  - f. Slippers
5. Pasting/ hanging posters, graffiti and promotion material of any kind is prohibited
6. Any type of political activity, demonstration, protest and procession are strictly prohibited. Offenders/ abettors will be expelled from college.
7. Any damage whatsoever caused by student will be recovered/ repaired 'as per actual' from him/ her. A fine may also be imposed.
8. All students must provide their and parents' / guardians' correct mailing address (es), phone numbers and emails. Any falsification in this regard will be considered as breach of discipline and any loss to college consequently, will be recovered from student in addition to fine.
9. Use of Alcohol and drugs and keeping of arms of any and all types are strictly prohibited. Offender will be expelled from college.
10. Falsification/ abuse of college record/ data shall be considered as a serious offence, resulting in strict disciplinary action.
11. Any misconduct/ negligence on the part of student which endangers the life, health and safety of other students and/ or staff or brings disrepute to college shall be considered as a serious offence and will be punished accordingly.
12. Impersonation of any academic, financial or otherwise gain shall be considered a serious offence and will be punished accordingly.
13. Theft and fraud will bring severe punitive action on offender.
14. Any intimidation/ harassment on the reasons of age, gender, race, disability or religious belief shall result in expulsion from college.
15. College and Hostel premises are strictly 'NO SMOKING ZONE.' Non-compliance in this regard will result in fine of Rs.1000/- and warning. The parents will also be intimated. On next violation, rustication of students will result. Third violation will result in expulsion from college.
16. Any kind of press conference, interview, writing articles etc. in media (print and electronic) are strictly prohibited violation shall be seriously punished.



### **Learning and Resource Centre**

The college has a spacious air-conditioned library which covered area of 5000 sqft consisting of leading and reference sections. The library fully caters the academic needs of students and staff. More than 1000 books, including reference and lending and more than 200 bound journals on different subjects. There is approximately 2894 online journals and other medical literature. The lending section can accommodate 60 persons and Reference section has a seating capacity of 12 users.

A separate library is functioning in Independent university hospital, Faisalabad under the supervision of qualified staff. More than 700 books on different subjects are available in that library satisfying the book needs of students and staff of Hospital. Digital library access facility is also available.

### **Administrative Section**

The Administrative Section of IMC is located in the front part of the main college building. This section is headed by Director Administration who works under the guidance of Principal, Independent Medical College, Faisalabad. This section comprises of Establishment Section and Students Section. The Establishment Section is supervised by Superintendent Senior Officer and deals with administrative affairs, disciplinary matters of faculty and also building maintenance. Students Section is supervised by Superintendent Students Section and facilitates the students in solving their problems relating to college and university and deals with all academic and disciplinary matters.

### **Accounts Section**

The Accounts Department is located in the main building. This department is headed by Director Finance & Accounts who work under the guidance of Principal, IMC. The Accounts Department deals with all financial matters (college dues and hostel charges etc.) relating to the faculty and the students.

### **Information and Technology Section**

The college has an excellent IT Department with a state of art Research & Resource lab. It provides digital library facility for students, staff and faculty members. IT Department compiles and preserves academic record of students including class attendance & internal assessment and makes it available online. IT Department provides high speed internet facility for downloading journals, articles & research material. Wi-Fi facility is available in all departments of the College and Hospital. Students can avail internet facility in hostel through Wi-Fi.

Printing and scanning facility is available in IT Department and students get It assistance while making their presentations. We are managing SMS based communication system for intimating students about their academic activities. IT Department is also maintaining latest IP Surveillance system for theft control in hostel. Students may contact IT Department if they seek help for:

- Presentation preparation
- Assignment preparation / printing
- Study material search on web
- Wi-Fi Account for hostel students
- Online Examination form filling for UHS
- Online student portal access
- Student ID card preparation

**Security**

Ten Security Guards and one Security Supervisor have been appointed for round the clock security of college. It is expected by students to show respect and empathy to these Security Officers who guard them at risk of their lives.

**Mock Drills**

With liaison of anti-terrorist police mock drills are conducted to review security weaknesses and improve. Similarly fire drills are carried out when time is to change at expiry of fire extinguisher

**Standby Generators**

Two standby generators are available in college for an uninterrupted electricity supply during load shedding.

**Playgrounds**

Fully developed playgrounds, for cricket, football, and hockey are available along with a badminton and table tennis court and other facilities for indoor games.

**Common Rooms**

Separate well furnished common rooms are available for boys & girls where local and international media channels are available for recreation and learning apart from Magazines and Newspapers.

**Transport System**

In addition to excellent academic environment, the college transport system brings peace of mind to parents and students both.

There are 2 buses and one van which cater the needs of the commuters. In general, vehicles reach college at about 7.55 AM in morning.

## **LIST OF RECOMMENDED BOOKS**

### **Anatomy:**

- Snell's Clinical Anatomy
- Snell's Neuroanatomy
- Langman's Medical Embryology
- Laique Hussain Histology
- Disector Vol. I. II. III Anatomy
- The Developing Human KLM 8th Edt.
- Junqueira's Basic Histology 12th Edt.
- Clinical Oriented Anatomy. Keith Moore; 6th Edt.

### Reference Books

- Grant's Atlas of Anatomy
- Netter Atlas of Anatomy 5th Edition
- Difore Atlas of Histology
- Gray's Anatomy
- General Anatomy by Prof. Dr. Ghulam Ahmad

### **Physiology:**

- Textbook of Physiology By. Guyton & Hall.
- Mushtaq Physiology Vol. I & II

### Reference Book

- Medical Physiology. Ganong

### **Biochemistry:**

- Harper's Biochemistry
- Lippincott Biochemistry Vol. I,II

### Reference Book

- Devlin's Biochemistry

**For 3rd Year MBBS****Forensic Medicine:**

- Principles and Practical of Forensic By. Nasib R. Awan
- Parkh's Textbook of Medical Jurisprudence, Forensic Medicine & Toxicology. By C.K Paik
- Siddique Hussain's Forensic Medicine.
- Simpson & knight

**Pathology:**

- Robbins & Cotran Pathological Basis of Disease 8th Edition.
- Review of Medical Microbiology & Immunology By. Warren Levinson.
- Essentials of human Parasitology By. Judith –S- Heelan, Frances. W. Ingersell.
- Laboratory Diagnosis By. Monica Chessbrough Vol. I & II.

**Reference Books**

- Walter & Israel General Pathology By. J.BWalter, Ic Talbot.
- Giovana Illustrated Pathology
- Curran's Atlas of Histopathology
- Medical Microbiology & Immunology By. Jawetz.

**Pharmacology:**

- Katzang Pharmacology
- Lawrence Pharmacology
- Lippincott Pharmacology
- Goodman Gilman Pharmacology

**For 4th Year MBBS****Community Medicine:**

- Park's Textbook of Preventive and Social medicine. K.Park. 20th Edition. Bhanot Publisher.
- Public Health and Community Medicine. Mohamed Ilyas. 7th Edition. Time Medicine Division Publisher.
- Handbook of Biostatistics. Daud S. NA Printers. 1st Edition (available from college office).

**Pathology:**

- Robbins & Cotran Pathological Basis of Disease 8th Edition.

**Reference Books:**

- Walter & Israel General Pathology By. J.BWalter, Ic Talbot.
- Giovana Illustrated Pathology
- Curran's Atlas of Histopathology

**ENT:**

- Diseases of EAR, NOSE & Throat by PL. Dhingra 5th Edit.
- ENT Ear Nose & Throat, Head & Neck by Muhammad Masud ul Haq
- Logan Turner's Disease of Ear, Nose & Throat 11th Edit.

**Reference books ENT:**

- Ballenger's Otorhinolaryngology, Head & Neck Surgery 16th Edit.
- Scott Brown's Otorhinolaryngology, Head & Neck Surgery 7th Edit.

**Ophthalmology:**

- Parson's disease of Eye
- Clinical Text Book of Ophthalmology By Saleem Akhtar 3rd Edition
- Book of Ophthalmology By Dr. Shafi M jatoi
- Kanski's Ophthalmology

**For Final Year MBBS****Medicine:**

- Davidson Principles & Practice of Medicine
- Macleod's Clinical Examination
- Hutchinson Clinical Methods
- Kumar & Clark Clinical Medicine
- CMDT Clinical Diagnosis & Treatment

## Reference Books

- Harrison's Text book of Internal Medicine
- Cecil's Text book of Internal Medicine

**Surgery:**

- Bailey's Love. Short Practice of surgery.
- Hamilton Bailey's Surgery
- Tell me the answer vol1 and vol 2 by Shuja tahir
- Clinical examination systems by Shuja tahir

**Gynae & Obs:**

- Ten teachers Gynae & Obs.
- Hacker & Moore's essentials of Obstetrics and Gynecology 4th Edit.

## Reference Books

- Jeffcoate's textbook of Gynecology
- Dewhurst's textbook of Obstetrics and Gynaecology
- Turnbull's obstetrics
- Williams obstetrics
- High risk for obstetrics
- Shaw's textbook of Gynaecology
- Novak's textbook of Gynecology

**Paediatrics:**

- Pakistan Paediatric Association's Text Book of Paediatrics
- Nelson's Text Book of Paediatrics
- Paediatrics by Perviaz Akbar