











## JINNAH SINDH MEDICAL **UNIVERSITY (JSMU)**

## VISION

Be an innovative leader in developing healthcare professionals with world class profile in research education and patient care.

## **MISSION**

The Jinnah Sindh Medical University exists to serve the state and community by:

- Adopting a dynamic integrated curriculum
- Updating teachers by effective faculty development program
- Imparting best learning opportunities to the students
- Guiding and helping, faculty and students towards top quality clinical and educational research
- Developing leadership and expertise, in healthcare and education
- Promoting concept of life long learning, ethics and preventive medicine care

### Introduction:

Jinnah Sindh Medical University (JSMU) was established on June 1, 2012. Its constituent medical college was Sindh Medical College (SMC) which was already a reputable institution of the province since its establishment in 1973. Since then, the JMSU has established Institute of Pharmaceutical Science. APPNA Institute of Public Health, Institute of Health and Business Management and Social Sciences, Sindh Institute of Oral Health Sciences and the new Institute of Nursing and Institute of Physical Rehabilitation. The total enrolment of medical and dental students exceeds 6,000, making it the largest medical university in Sindh. JSMU is distinguished by the quality of its individuals and their commitment to modernizing and updating its curricula and facilities. Highly seasoned faculty and staff run its constituent medical college and institutes. University students receive clinical training in prestigious national institutions like the Jinnah Postgraduate Medical Centre (JPMC), National Institute of Child Health (NICH), and National Institute of Cardiovascular Diseases (NICVD).

JSMU is working towards the vision of a modern university at par with international standards by emphasizing e-learning and developing technologybased teaching and learning initiatives. It recently became the first public sector medical university to administer computer-based semester, BDS, and Diploma in Physiotherapy examination to its registered students from six affiliated colleges.

The university offers e-learning courses with currently 166 courses online for its students in affiliated colleges and has trained 110 faculty members in creating e-learning material. It was also the first public sector university in Pakistan to provide free wi-fi facility to students and faculty.

JSMU is also a proud part of Pakistan Education and Research Network (PERN2). This project facilitates teachers and students to access Internet, digital library with thousands of free eBooks and journals, plagiarism detection software Turnitin, and Video Conferencing facility. The University has 187 mbps internet bandwidth on CIR. This internet is used for digital library access, audio/video communication, high definition streaming, server hosting, website applications/ portals, heavy duty download services and other services that rely on high speed internet. A dedicated state-of-the-art video conferencing facility is available where interactive video lectures and meetings can be conducted among multiple remote locations.

The University has access to the digital library of the Higher Education Commission, which provides thousands of free e-books and journals for students and faculty with wide range of disciplines for research and education purpose. This digital library can be accessed from the computer labs and on portable devices through Wi-Fi facility in the university.

JSMU has also implemented biometric and face recognition attendance system for the students and the University Staff. This system provides a transparent way to mark the attendance with comprehensive reporting system.

## AFFILIATED COLLEGES

Under the direction of the Honourable Chief Minister of Sindh, the following medical and dental Colleges are affiliated with JSMU since 2014-15 after meeting the standards set by the the Affiliation Committee of the University.

- 1. Liaguat National Hospital and Medical College
- 2. United Medical and Dental College
- 3. Liaquat College of Medicine and Dentistry
- 4. Sir Syed College of Medical Science for Girls
- 5. Jinnah Medical and Dental College
- 6. Fatima Jinnah Dental College
- 7. Altamash Institute of Dental Medicine

In charge, Modular Implementation and Chief Coordinator, Clinical Teaching of the University Professor Muhammad Irfan Ashraf has trained the faculty of these Colleges to implement modular system of teaching in line with the University standards.

## **Sindh Medical College**

The Government of Sindh established the Sindh Medical College (SMC) on 7th April 1973, to meet the growing need of healthcare professionals in the Sindh province. Professor Khwaja Muinuddin Ahmed was appointed the project director and the first principal of the new college. Started in the building of the paediatric ward of the Jinnah Postgraduate Medical Centre (JPMC), the college began operating with three departments initially: Anatomy, Physiology, and Biochemistry. As the college building was constructed shortly afterwards, the departments of Pathology, Forensic Medicine, and Community Medicine, were added with modern teaching facilities, laboratories, and museums. An administration block was also constructed.

The students receive rigorous training in a professional environment at JPMC, NICH, and the National Institute of Cardiovascular Diseases (NICVD).

## **MODULAR INTEGRATED CURRICULUM**

Sindh Medical College follows the modular integrated curriculum which is among the most modern and student friendly teaching systems. The students are exposed to terminal objectives









and clinical application of the initial knowledge from day one. The eventual integration between different subjects helps the students in building concepts.

## CASE BASED LEARNING (CBL)

Along with standard teaching, Case Based Learning (CBL) has also been introduced. Students gain applied knowledge and exposure to the terminal objectives of teaching from the beginning.

## **PROBLEM BASED LEARNING**

This is an advance method of integration for clinical students. This technique of clinical teaching is the latest and has an impact on the second spiral modular teaching. The problem is uploaded on website and is discussed in small groups of students in two or more sessions. During the discussion students are trained to develop critical problem-solving approach in rapidly changing clinical scenarios.

This academic innovation also includes:

- Structured teaching in clinical departments
- 20% weightage of internal evaluation (modular tests and clinical posting)
- Introduction of behavioral sciences
- Mandatory research, for undergraduate students, in groups, under the supervision of faculty members

### **POWER LAB**

Power Lab teaches scientific principles as well as data acquisition skills. The user-friendly system provides students with the hardware and software to perform a wide range of basic human physiology experiments including cardiovascular, respiratory, muscular, and neurological systems. Its installation at SMC has replaced the old system of physiology and pharmacology practical examinations.

### **Basic Academic Departments**

Anatomy, Physiology, Pathology, Biochemistry, Pharmacology, Forensic medicine, Community Medicine

### **Clinical Departments**

Medicine and Allied, Paediatrics, Surgery and Allied, ENT, Gynaecology and Obstetrics, and Ophthalmology

## Sindh Institute of **Oral Health Science**

Sindh Institute of Oral Health Sciences was established on November 15, 2014 to meet the needs of the province in the area of dentistry. One of the aims of the Institute is to be internationally recognized as a leader in dental education, research, patient care, and

community service.

The SIOHS is conceived to be a state-of-the-art institution that not only meets international standards in dental education and training, but also contributes to the global knowledge base by engaging in relevant and ethical research and academic contributions.

Bachelors of Dental Surgery (BDS): SIOHS is currently offering a 4-years degree programme Bachelors of Dental Surgery (BDS) and preparing to start the postgraduate programme including PhD, M. Phil, Masters, and Fellowships in all disciplines of dentistry.

## **APPNA Institute of Public Health**

APPNA Institute of Public Health (AIPH) was inaugurated on December 26, 2013 in response to the growing demand of public health professionals in Pakistan. It seeks to contribute towards capacity development in the domain of public health.

AIPH aims to become a centre of excellence in research, training, and service in the country. The Institute is engaged in developing public private partnership models of primary healthcare. It supports the government in public health policy formulation. Training public health professionals and supporting the faculty and staff of JSMU and JPMC in research are among its primary responsibilities.

The Institute has acquired two major grants from USAID and ICRC. Presently training on the deescalation of violence against healthcare providers are being conducted. The USAID project through JHPIEGO is for improving maternal and child health. Presently, AIPH is offering the following degrees and diplomas:

- 1. Master of Science in Public Health (MSPH): This is a two-year postgraduate programme with a thesis requirement approved by PM&DC and HEC.
- 2. Certificate in Medical Education (CMed): This is a certificate course for health professionals to train them with skills of developing curriculum, teaching, training and assessment in an academic healthcare institution.
- 3. Emergency Medical Technicians (EMT): This is a certificate course for pre-hospital emergency management training for candidates with 12 years of schooling. It is accredited with the Sindh Board of Technical Education (SBTE) and Sindh Board of Faculties.

## **Institute of Health & Business Management** and Social Sciences

The Institute of Health & Business Management and Social Sciences (IOHBMSS) is emerging as a dynamic centre of education in business and healthcare management. The Institute imparts education for Masters and B.S. degree courses in Business Administration, Hospital and Health Care Management as well as MBA (Executive). These programmes are successfully running in morning, evening, and weekend sessions. Nearly 500 students are enrolled currently.

Within a brief time, the IoHBMSS has developed a sound reputation by maintaining strong linkages with the Higher Education Commission (HEC), the Quality Assurance Division and the Quality Assurance Agency of the HEC and the National Business Education Accreditation Council (NBEAC). It is also actively engaged in the accreditation and self-assessment processes.

The Institute plans to encourage research and innovation by launching the M.Phil./MS and Ph.D programmes in future.

## Institute of Pharmaceutical Sciences

Worldwide trends in pharmacy education are changing. Drug-oriented pharmacy has now given way to patient-oriented pharmacy. It is the Institute's mission to modernize pharmacy education in Pakistan and provide high quality professionals to the pharmaceutical industry to raise its standards.

The Institute of Pharmaceutical Sciences started the five-year Doctor of Pharmacy (Pharm D) programme in January 2014, within a short span of time since the inception of the University. The Institute is following the approved curriculum and semester-based guidelines of the Pharmacy Council of Pakistan (PCP) and Higher Education of Pakistan (HEC). It has an impressive teacher student ratio (1:10) in accordance with the recommendations of the PCP. The Institute building is situated within 200 yards of JSMU's teaching hospitals, which are integral and important resources for pharmacy education. The spacious five-storeyed building occupies a total covered area of nearly 50,000 sq.ft. Its five lecture halls have the capacity of 100 students each and are equipped with multimedia and digital sound system. The building also has nine essentially equipped laboratories, a library, a girls' common room, faculty offices. and a council room. Twelve PhDs in different disciplines of Pharmacy are members of the team. In future, the Institute aims to become the leader in pharmacy education among public sector universities. It will comprise five teaching and research departments with scientifically equipped laboratories: Pharmaceutics, Pharmacy practice, Pharmacology, Pharmaceutical chemistry, and Pharmacognosy. Postgraduate programmes (M.Phil/PhD) in all five disciplines are also being planned.

The University has also recently set up an **Institute of Nursing** and an **Institute of Physical Rehabilitation** to meet the growing demand for human resource in these areas.

# Categories of Seats for MBBS Course at Sindh Medical College

| 1. Open Merit MBBS  | (228 seats)      |
|---|------------------|
| 2. UEDP - local (MBBS)  | (38 seats)       |
| 3. UEDP overseas- Pakistanis                                  | (18 seats)       |
| 4. Pakistan Technical Assistance Program (PTAP)               | (18 seats)       |
| 5. Disabled candidate   | (01 seat)        |
| 6. Seats for students from interior of Sindh to study at JSMU | (46 seats)       |
| 7. Single Seat for student from Balochistan to study at JSMU  | (01 seat)        |
| •   | Total (350 seat) |

## **Summary of Seats and Fee Structure MBBS**

| Category of Seats                            | Number<br>of Seats | Admission<br>Fees | Tuition<br>Fees of Two<br>Semester | Tuition<br>Fees of<br>Subsequent<br>Year |
|--|--------------------|-------------------|------------------------------------|--|
| Open Merit                                   | 228                | Rs. 18,700        | Rs. 31,900                         | Rs. 31,900*                              |
| Reserved Seats for Interior Sindh            | 46                 | Rs. 18,700        | Rs. 31,900                         | Rs. 31,900*                              |
| Reserved Seats for Balochistan               | 01                 | Rs. 18,700        | Rs. 31,900                         | Rs. 31,900*                              |
| UEDP Local Self Finance                      | 38                 | Rs. 24,200        | Rs. 4,40,000<br>+ Govt. Tax 5%     | Rs. 4,40,000<br>+ Govt. Tax 5%           |
| UEDP Overseas Self Finance                   | 18                 | US\$ 500          | US\$ 12000<br>+ Govt. Tax 5%       | US\$ 12000<br>+ Govt. Tax 5%             |
| PTAP (Pakistan Technical Assistance Program) | 18                 | Rs. 24,200        | Rs. 4,40,000<br>+ Govt. Tax 5%     | Rs. 4,40,000<br>+ Govt. Tax 5%           |
| Disabled Candidates                          | 01                 | Rs. 18,700        | Rs. 31,900                         | Rs. 31,900*                              |

- Five (05) Seats have been reserved for male candidates from Karachi to LUMHS (Jamshoro).
- Five (05) Seats are reserved for female candidates from Karachi to PUMHS, Shaheed Benazirabad (Nawabshah).
- Two (02) Seats have been reserved for female candidates from Karachi to FJMC (Lahore).
- One (01) Seat has been reserved for a male candidate from Karachi to BMC (Quetta)

## NOTE: Tution fee of open merit will increase by 10% annually.

## **Breakup of Reserved Seats for Interior Sindh**

| 1 | Hyderabad Board  | 10 |
|---|------------------|----|
| 2 | Larkana Board    | 14 |
| 3 | Mirpurkhas Board | 08 |
| 4 | Sukkur Board     | 14 |
|   | Total            | 46 |

#### 1. OPEN MERIT

Two hundred and twenty-eight (228) seats have been reserved on Open Merit in Sindh Medical College for candidates with Karachi domicile.

#### 2. UEDPLOCAL

Thirty-eight (38) seats are reserved at Sindh Medical College on Self-Finance Basis, for candidates fulfilling the eligibility criteria of open merit.

## 3. UEDP OVERSEAS PAKISTANIS

Eighteen (18) seats have been reserved for the children of overseas Pakistanis. These candidates are exempted from entry test. The UEDP overseas list will be constituted on firstcome-first-served basis on depositing \$500 in admission fees. The nomination is through the Ministry of Economic Affairs, Islamabad.

## 4. PTAP (PAKISTAN TECHNICAL ASSISTANCE PROGRAM)

Eighteen (18) seats have been reserved for this category. All PTAP nominees must join within 15 days after the session begins, otherwise the nomination will be considered invalid and the remaining seats will be forfeited.

#### 5. SEAT FOR THE DISABLED

One (01) seat is reserved for disabled candidates. The candidates will first be considered on general merit, then on disabled quota. A medical board will verify the status of these candidates.

## 6. RESERVED SEATS FOR CANDIDATES FROM INTERIOR SINDH ON MERIT-CUM-**CHOICE CRITERION**

Forty-six (46) seats have been reserved at SMC for students from interior Sindh, on meritcum-choice criterion. These include 10 seats for Hyderabad Board, 14 for Larkana Board, 08 for Mirpurkhas Board and 14 seats for the Sukkur Board. Candidates applying in this category should have Sindh domicile (other than Karachi) in the indicated districts of the above boards.

## 7. RESERVED SEAT FOR CANDIDATE FROM BALOCHISTAN BASED ON MERIT-CUM-CHOICE

One seat is reserved for candidates from Balochistan at SMC. The admissions committees of the Bolan Medical College, Quetta will select the candidate.

## Summary of Seats and Fee Structure BDS at Sindh Institute of Oral Health Sciences, JSMU

| Category of Seats          | Number of Seats  | Admission<br>Fees | Tuition<br>Fees of Two<br>Semesters | Other<br>Charges |
|----------------------------|--|-------------------|-------------------------------------|------------------|
| Open Merit                 | Karachi Domicile=30<br>Interior of Sindh =13<br>Total = 43 | 22,000            | 150,000                             | 25,000           |
| UEDP Local Self<br>Finance | Karachi Domicile=05<br>Interior of Sindh =02<br>Total = 07 | 50,000            | 490,000<br>+ Govt. Tax 5%           | 25,000           |
| Grand Total of Seats       | 50   |                   |                                     |                  |

10% increase in tution fee of Open Merit every year.

**Note:** According to FBR Rules 2013, all fee payments above 2 lacs must pay 5% income tax (adjustable), so students applying for UDEP seats have to submit their Pay Order including income tax.

## Rules for the Payment of Fee

- 1. Fee deposited is only refundable as per PMDC rules.
- 2. Pay order of two semesters' tuition fee (of the respective category) will have to be paid within one week after the start of 3rd, 5th, 7th, and 9th Semesters.
- 3. In case the fee is not submitted during the given specified time, late payment charges will be charged as follows:

First month (after lapse of first week)
Second month
Third month
Fourth month
2.5 % of tuition fee
5.0 % of tuition fee
7.5 % of tuition fee
10 % of tuition fee

AFTER FOUR MONTHS OF NON PAYMENT, THE SEAT IS LIABLE TO BE CANCELLED AND STUDENT WILL NOT BE ALLOWED TO APPEAR IN ANY EXAMINATION.

- 4. Govt. tax is levied on tuition fee of above Rs. 2 lacs and this has to be paid by the student. This year Govt. Tax is being charged at 5% as per last year.
- 5. Fee may be revised by the university at any time during the course of the study, due to unavoidable circumstances.