



**INDUS UNIVERSITY OF HEALTH SCIENCES**

**INDUS COLLEGE OF MEDICAL  
TECHNOLOGY & ALLIED HEALTH**



# **PROSPECTUS**

## **2026 - 2027**

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# Welcome to Indus College of Medical Technology & Allied Health



Indus College of Medical Technology and Allied Health provides learning-centered educational programs and career development opportunities for healthcare students. The college started in affiliation with:

Jinnah Sindh Medical University, for a 04-year degree program, in the year 2021.  
Sindh Medical Faculty, for 1 and 2-year certificate programs, in the year 2016-17.

Allied Health Science is an emerging field in Medical Sciences giving a new dimension to solve the challenges that are being faced by health service providers all over the world. Medical technology has a major strategic factor in positioning the hospital and its perception in the competitive environment of healthcare providers. Medical technology is the application of devices, procedures, and knowledge for diagnosing and treating disease for the purpose of maintaining, promoting, and restoring wellness while improving the quality of life.

Allied Health professionals work as healthcare team members to serve as support services that are critical to the other health professionals they work with and the community of patients they serve, contributing a major part in providing a quality healthcare delivery system.

The College offers a diverse portfolio of programs designed for individuals committed to advancing healthcare. Each program provides a balanced integration of theoretical foundations and practical training, equipping students with the competencies required to excel in a wide range of healthcare roles.

Through structured coursework, immersive clinical experiences, and access to modern facilities, students gain the expertise necessary to meet the evolving demands of the healthcare industry. Our emphasis on hands-on learning ensures graduates are prepared not only with knowledge, but with the applied skills essential for professional success in their chosen fields.



Graduates of the Medical Technology & Allied Health College emerge as competent professionals equipped with the knowledge, technical expertise, and ethical grounding required to advance healthcare delivery. They play a vital role in strengthening healthcare systems and ensuring the provision of safe, effective, and quality services.



## College Vision

To be a leading institution in medical technology and allied health education, recognized for excellence in teaching, research, and community service, aligned with the values of compassion, integrity, and service to humanity.

## College Mission Statement

We strive for excellence in allied health and medical technology education through quality teaching and evidence-based practice. We are dedicated to preparing graduates with contemporary knowledge, analytical reasoning, ethical conduct, and a commitment to lifelong learning, equipping them to serve communities with integrity, leadership, and social accountability.

## Goals

- Improve interprofessional collaboration with all healthcare peers
- Provide a model education system based on scientific knowledge and technology

## Competencies

- Care provider
- Communicator
- Professional
- Team worker

# Message from Dean

Year 2024-25 has seen IHHN move from expansion to evolution. We have enhanced our reach and for this building human capacity has been center stage as we want to shape the future of health delivery in Pakistan. Our efforts in the year just passed have been on improving educational content and means of delivery. We have successfully implemented the Campus Management System making all our processes in IUHS paperless. This is in keeping with the technological advancements as seen on the Hospital side too. Effort has been made to strengthen the faculty and much success has been achieved in this. Our student enrollments have gone up which is a testament of the faith parents have in our educational quality and its delivery.

The FY24-25 saw expansion of space and IUHS managed to occupy some areas made available from the hospital. This has brought us even closer to the new University building under construction which we hope to occupy Inshallah early next year.

The ensuing year saw much activity in research both by the students and faculty. I want to state here that IHHN is built on 3 pillars. Service, Education and Research. IUHS is playing a pivotal role in fulfilling the latter two. Research will be the focus for the next year and at IUHS we will build capacity and skills at all levels to increase research productivity in order to make IUHS a powerhouse of research InshaAllah.



**Prof. Syed Zafar Zaidi**  
**Dean IUHS**  
**CEO IHHN**

# Message from Associate Dean

The past year has been a period of meaningful progress and strategic development. We are proud to highlight the successful implementation of the Campus Management System, a major milestone in streamlining academic and administrative functions across all colleges. This initiative reflects our continued commitment to digital transformation and operational efficiency.

We are also pleased to announce the commencement of the third batch of the Certificate in health professional education reaffirming our dedication to strengthening faculty development.

Looking ahead, we are actively working to embed research as a core component of our teaching mission. By integrating inquiry-based learning across all colleges, we aim to foster a culture of innovation and academic excellence that prepares students for impactful careers in health and science.

We extend our sincere thanks to our faculty, staff, and students for their contributions to this progress and look forward to building on this momentum in the coming year.



**Dr. Ghina Shamsi**

**Consultant General Surgery**

**Associate Dean, IUHS**

**MBBS, MCPS, FCPS (Surgery)**

**MRCS (Glasgow), MHPE**

**Indus Hospital and Health Network**

# Message from Principal

Allied Health Sciences is an emerging field in Medical Sciences giving new dimensions to solve the challenges that are being faced by health service providers. Allied health workers constitute nearly 60% of the healthcare workforce which includes hundreds of professionals employed in different health specialties with different job duties at different levels.

In alignment with the vision and mission of The Indus Hospital and Health network, we at Indus College of Medical Technology and Allied Health mold students with high-quality education standards and training that enables them to become complete professionals, with sympathy and empathy for the needy.

Our meticulously dedicated faculty members are always ready to facilitate and guide the students and maximize their learning potential by providing contemporary, state-of-the-art education. Our clinical faculties are also dedicated to allocating their clinical knowledge from their experience to the students in their respective fields.

The well-equipped learning resources include a digital and skills laboratory which imparts the students with practical skills with theoretical knowledge that they acquire from the module-based syllabus. Indus College aims to offer world-class education, which is both cost-effective and standardized. The College is not only aiming at academic excellence but also nourishing intellectual and personal development across a range of extra and co-curricular domains.



**Dr. Atiya Rohilla,  
MBBS, Dip-HCSM, MBA, MHPE,  
Principal  
Indus College of Medical Technology and Allied Health**

# Meet Our Faculty

## Passionate Scholars, Innovators, and Mentors

Our highly regarded faculty possess extensive experience and expertise. They are dedicated to fostering active participation from students. In doing so, they equip our students to address real-world challenges.



**Dr. Atiya Rahman**  
Principal,  
Indus College of Medical  
Technology & Allied Health



**Fahad Ahmed**  
Senior Lecturer,  
Basic Sciences



**Warisha Khan**  
Instructor,  
Operation Theater Sciences



**Naveen Taj**  
Instructor,  
Basic Sciences



**Saania Akram**  
Lecturer,  
Pharmacology



**Ms. Isra Noor**  
Lecturer,  
Microbiology



**Nazish Nizar Ali**  
Instructor,  
Basic Medical Skills



**Nasreen Jawaid**  
Senior Lecturer/ Computer Lab  
Coordinator,  
PhD scholar



**M. Mujtaba Zafar**  
Senior Lecturer Physics,  
MSC (Physics)

# Meet Our Faculty



**Ms. Fatima Batool**  
Demonstrator,  
BS MT (Radiology)

**Hafiza Rabia Jamil**  
Lecturer,  
Islamiat

**Umer Javaid**  
Instructor



**Beenish Mueed Khan**  
Demonstrator,  
BSMT-Radiology

**Mahnoor Mirza**  
Demonstrator

**Javeria Ahmed**  
Demonstrator

# Eligibility Criteria & Program Overview

## BS - MT in Radiology & Imaging

- 4-year Program
- Students with minimum 50% marks in pre-medical (Biology Science) HSC/FSC examination
- Advance level (A-Level), and other equivalence to HSC/FSC {Pre-medical (Biology Science)} as per HEC guidelines
- Age limit: 17 years-25 years
- Sindh Domicile Only

A medical imaging technologist is a healthcare professional concerned with imaging the body parts and diagnosing abnormalities. The Radiologic Technology program is designed to prepare students to function as Radiologic technologists. Students will gain knowledge and understanding of the diagnostic uses of X-ray, as well as the technical skills to use radiological and imaging equipment, both in laboratory and clinical settings. The course is developed to enable students to operate x-ray equipment, assist in the diagnosis of disease observing proper medical ethics. Students will learn the nature of radiation, the principles of electricity, the structure of X-ray machines, and the operation of a clinical X-ray department.

Scope of Practice: Medical Imaging technologists operate modern and sophisticated Digital X-ray, CT, MRI, and Interventional Angiography equipment to examine anatomical structures by applying knowledge of anatomy, body positioning skills, and medical imaging techniques.

## BS - MT in Clinical Laboratory Sciences

- 4-year Program
- Students with minimum 50% marks in pre-medical (Biology Science) HSC/FSC examination
- Advance level (A-Level), and other equivalence to HSC/FSC {Pre-medical (Biology Science)} as per HEC guidelines
- Age limit: 17 years-25 years
- Sindh Domicile Only

Technologist, also known as a Surgical Technologist, possesses the knowledge and procedural skills for work with sterile and aseptic techniques. Surgical technologists can assist the surgeon to make the procedure as smooth and efficient as possible while working as part of the surgical team. They are also responsible for the management of operation theatre that includes looking after all surgical instruments, sterilization, and arrangement of operation theatre table and dressing table.

Scope of Practice: Operation theater technologists have a vast scope in healthcare organizations, including operating room, emergency rooms, emergency ambulatory vehicles, and hospital delivery rooms.

## BS - MT in Operation Theater Sciences

- 4-year Program
- Students with minimum 50% marks in pre-medical (Biology Science) HSC/FSC examination
- Advance level (A-Level), and other equivalence to HSC/FSC {Pre-medical (Biology Science)} as per HEC guidelines
- Age limit: 17 years-25 years
- Sindh Domicile Only

Technologist, also known as a Surgical Technologist, possesses the knowledge and procedural skills for work with sterile and aseptic techniques. Surgical technologists can assist the surgeon to make the procedure as smooth and efficient as possible while working as part of the surgical team. They are also responsible for the management of operation theatre that includes looking after all surgical instruments, sterilization, and arrangement of operation theatre table and dressing table.

Scope of Practice: Operation theater technologists have a vast scope in healthcare organizations, including operating room, emergency rooms, emergency ambulatory vehicles, and hospital delivery rooms.

## BS - MT in Respiratory Therapy & Critical Care

- 4-year Program
- Students with minimum 50% marks in pre-medical (Biology Science) HSC/FSC examination
- Advance level (A-Level), and other equivalence to HSC/FSC {Pre-medical (Biology Science)} as per HEC guidelines
- Age limit: 17 years-25 years
- Sindh Domicile Only

The BSMT Respiratory Therapy & Critical Care Technology program is a four-year bachelor's degree program that aims to prepare qualified professionals with refined knowledge, skills, and attributes that enable them to meet their current professional goals. Respiratory Care is an allied health specialty that plays a vital role in modern medicine and the healthcare industry. Respiratory therapists work under the direction of a physician and treat a range of patients, from premature infants whose lungs are not fully developed to elderly people with lung disease. A respiratory therapist assists in different diagnostic and therapeutic procedures for example, administration of oxygen, managing ventilators, and providing care to patients.

Scope of Practice: BS – Medical Technologist in Radiological Imaging can contribute their services in areas like High dependency units and Intensive care units of Tertiary care health facilities, in Rehabilitation centers, in pediatrics, and in pulmonary function labs.

# Why Indus

## Our Strength

- Safe campus life
- Good academic reputation

## Academic Supporting Services:

- Skills Lab: well equipped with basic as well advance manikins and apparatus to give students hands-on learning experience.
- Science Laboratory: equipped with all necessary tools to complete experiential learning. They get first-hand learning experience by performing various experiments on their own.
- Digital Library: well-equipped Digital library with free access to Wi-Fi. Students can easily get access to the digital lab on the basis of their institute ID Card.
- Library: all the latest editions of reference books, articles, and newspapers, helpful in self-directed studies. The reading materials are issued to students for in-campus learning.
- Centralized curricular and co-curricular activities to give equal opportunities to all students.
- Well experience Teaching and Clinical Faculty
- Regular Faculty training sessions so that they can efficiently monitor students' personality development and academic growth.
- Learning Management System to assess students in their courses and expose them to recent developments in technology.
- Good reputation in community work
- Financial assistance to deserving students; based on their academic performance
- ICMAH offers Need-Based Financial Assistance to deserving students.

## Quality Assurance Integration

Quality assurance at ICMAH is embedded across all academic and clinical programs through structured monitoring and evaluation. Each program is aligned with QEC-PEER standards, ensuring compliance with national accreditation requirements.

Faculty undergo regular training in assessment and curriculum delivery, while students are continuously evaluated through formative and summative methods such as OSCE/OSPE, portfolios, and skill logs. This systematic integration of QA safeguards academic integrity, promotes continuous improvement, and guarantees that graduates meet the highest standards of professional competence and ethical practice.

# Curriculum

## BS - MT in Respiratory Therapy & Intensive Care

### Semester 1

Course No	Course Title	Credit Hour
ANA-311	Elementary Anatomy	3 (2+1)
MIC-312	Clinical Microbiology I	3 (2+1)
BIO-313	Clinical Biochemistry I	3 (2+1)
QUR-314	Quantitative Reasoning-I	3 (3+0)
ISS-315	Islamic Studies/ Moral Ethics	2 (2+0)
ENG-316	Functional English	3-0
<b>Total</b>	<b>Total Credit Hours</b>	<b>17</b>

### Semester 2

Course No	Course Title	Credit Hour
ETH-511	Introduction to Biomedical Ethics	3 (3+0)
GPT-512	General Pathology	3 (2+1)
BTB-513	Body Fluids and Transfusion of	3 (2+1)
PTI-514	Procedures and therapeutic	3 (2+1)
INV-515	Invasive and non-invasive Clinical	3 (2+1)
CPR-519	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>
<b>Total</b>	<b>Total Credit Hours</b>	<b>19</b>

### Semester 3

Course No	Course Title	Credit Hour
NSC-411	Natural Sciences (Health &	3 (2+1)
SCS-412	Social Sciences	2+0
PST-413	Pakistan Studies	2 (2+0)
ANH-414	Creative Art and Humanities	2 (2+0)
PHM-415	Clinical Pharmacology I	3 (2+1)
ICC-416	Introduction to Critical Care	3 (2+1)
UHQ-417	Understanding of Holy Quran-I	1 (0+1)
<b>Total</b>	<b>Total Credit Hours</b>	<b>16</b>

### Semester 4

Course No	Course Title	Credit Hour
ETR-421	Entrepreneurship	2 (2+0)
ICT-422	Application of information and	3 (2+1)
OGP-423	Organization And General Principles	3 (2+1)
OTA-424	Oxygen Therapy and Airway	3 (2+1)
PHM-425	Clinical Pharmacology II	3 (2+1)
UHQ-427	Understanding of Holy Quran-II	1 (0+1)
CPR-429	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

### Semester 5

Course No	Course Title	Credit Hour
ETH-511	Introduction to Biomedical Ethics	3 (3+0)
GPT-512	General Pathology	3 (2+1)
BTB-513	Body Fluids and Transfusion of	3 (2+1)
PTI-514	Procedures and therapeutic	3 (2+1)
INV-515	Invasive and non-invasive Clinical	3 (2+1)
CPR-519	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

### Semester 6

Course No	Course Title	Credit Hour
CNT-521	Clinical Nutrition & Diet Therapy	3 (2+1)
FID-522	Fundamental of Infectious	3 (2+1)
NPT-523	Basic Nursing Procedure and	3 (2+1)
RPM-524	Respiratory Medicine	3 (2+1)
OFM-525	Organ Failure and Their	3 (2+1)
CPR-529	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

### Semester 7

Course No	Course Title	Credit Hour
RSM-611	Research Methodology	3 (3+0)
MGH-612	Management in Healthcare	3 (3+0)
PUD-613	Pulmonary Diagnostics	3 (2+1)
NIM-614	Neonatal ICU Management	3 (2+1)
TBM-615	Trauma and Burns	3 (2+1)
CPR-619	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

### Semester 8

Course No	Course Title	Credit Hour
RPJ-621	Research Project	3 (0+3)
QCM-622	Fundamentals of Quality Control	3 (2+1)
PIM-623	Paediatrics ICU Management	3 (2+1)
PMS-624	Pain Management and Sedation in	3 (2+1)
AAP-625	Anesthesia Apparatus	3 (2+1)
INT-629	Internship	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

# Curriculum

## BS - MT in Clinical Laboratory Sciences

### Semester 1

Course No	Course Title	Credit Hour
ANA-311	Elementary Anatomy	3 (2+1)
MIC-312	Clinical Microbiology I	3 (2+1)
BIO-313	Clinical Biochemistry I	3 (2+1)
QUR-314	Quantitative Reasoning-I	3 (3+0)
ISS-315	Islamic Studies/ Moral Ethics	2 (2+0)
ENG-316	Functional English	3+0
<b>Total</b>	<b>Total Credit Hours</b>	<b>17</b>

### Semester 2

Course No	Course Title	Credit Hour
PHY-321	Elementary Physiology	3 (2+1)
MIC-322	Clinical Microbiology II	3 (2+1)
BIO-323	Clinical Biochemistry II	3 (2+1)
QUR-324	Quantitative Reasoning-II	3 (3+0)
ICP-325	Ideology & constitution of	2 (2+0)
ENG-326	Expository Writing	3 (3+0)
CCE-327	Civics and community	2 (1+1)
<b>Total</b>	<b>Total Credit Hours</b>	<b>19</b>

### Semester 3

Course No	Course Title	Credit Hours
NSC-411	Natural Sciences	3 (2+1)
SCS-412	Social Sciences	2+0
PST-413	Pakistan Studies	2 (2+0)
PHM-415	Clinical Pharmacology I	3 (2+1)
ANH-414	Creative Art and Humanities	2 (2+0)
CBC-416	Clinical Biochemistry-	3 (2+1)
UHQ-417	Understanding of Holy Quran-I	1 (0+1)
<b>Total</b>	<b>Total Credit Hours</b>	<b>16</b>

### Semester 4

Course No	Course Title	Credit Hours
ETR-421	Entrepreneurship	2 (2+0)
ICT-422	Application of information and	3 (2+1)
EMB-423	Essentials of Molecular Biology	3 (2+1)
EHM-424	Essential Hematology - I	3 (2+1)
PHM-425	Clinical Pharmacology II	3 (2+1)
UHQ-427	Understanding of Holy Quran-II	1 (0+1)
CPC-429	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 5**

Course No	Course Title	Credit Hour
ETH-511	Introduction to Biomedical Ethics	3 (3+0)
GPT-512	General Pathology	3 (2+1)
IML-513	Immunology – I	3 (2+1)
EHM-514	Essential Hematology-II	3 (2+1)
PGN-515	Principles of Genetics	3 (2+1)
CPC-519	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 6**

Course No	Course Title	Credit Hour
EPB-521	Epidemiology and Biostatistics	3 (3+0)
FID-522	Fundamentals of Infectious	3 (2+1)
IML-523	Immunology – II	3 (2+1)
BBT-524	Blood Banking & Transfusion	3 (2+1)
MBL-525	Molecular Biology	3 (2+1)
CPC-529	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 7**

Course No	Course Title	Credit Hour
RSM-611	Research Methodology	3 (3+0)
CVR-612	Clinical Virology	3 (2+1)
CED-613	Clinical Endocrinology	3 (2+1)
CMT-614	Cell and Molecular	3 (3+0)
CCP-615	Cytology and Cytopathology	3 (2+1)
CPC-619	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 8**

Course No	Course Title	Credit Hour
RPJ-621	Research Project	3 (0+3)
QCM-622	Fundamentals of Quality Control	3 (2+1)
CLM-623	Clinical Laboratory	3 (2+1)
LIV-625	Laboratory Methods in	3 (2+1)
MIF-626	Medical Informatics	3 (2+1)
INT-629	Internship	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

# Curriculum

## BS - MT in Radiological Imaging

### Semester 1

Course No	Course Title	Credit Hour
ANA-311	Elementary Anatomy	3 (2+1)
MIC-312	Clinical Microbiology I	3 (2+1)
BIO-313	Clinical Biochemistry I	3 (2+1)
QUR-314	Quantitative Reasoning-I	3 (3+0)
ISS-315	Islamic Studies/ Moral Ethics	2 (2+0)
ENG-316	Functional English	3 (3+0)
<b>Total</b>	<b>Total Credit Hours</b>	<b>17</b>

### Semester 2

Course No	Course Title	Credit Hour
PHY-321	Elementary Physiology	3 (2+1)
MIC-322	Clinical Microbiology II	3 (2+1)
BIO-323	Clinical Biochemistry II	3 (2+1)
QUR-324	Quantitative Reasoning-II	3 (3+0)
ICP-325	Ideology & constitution of	2 (2+0)
ENG-326	Expository Writing	3 (3+0)
CCE-327	Civics and community	2 (1+1)
<b>Total</b>	<b>Total Credit Hours</b>	<b>19</b>

### Semester 3

Course No	Course Title	Credit Hours
SCS-412	Natural Sciences (Health &)	3 (2+1)
NSC-411	Social Sciences	2+0
PST-413	Pakistan Studies	2 (2+0)
ANH-414	Creative Art and Humanities	2 (2+0)
PHM-415	Clinical Pharmacology I	3 (2+1)
XRT-416	X-Ray Technique I	3 (2+1)
UHQ-417	Understanding of Holy Quran-I	1 (0+1)
<b>Total</b>	<b>Total Credit Hours</b>	<b>16</b>

### Semester 4

Course No	Course Title	Credit Hours
ETR-421	Entrepreneurship	2+0
ICT-422	Application of information and	3 (2+1)
RDH-423	Radiation Hazard	3 (2+1)
PHM-425	Clinical Pharmacology II	3 (2+1)
XRT-426	X-Ray Technique II	3 (2+1)
UHQ-427	Understanding of Holy Quran-II	1 (0+1)
CPI-429	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 5**

Course No	Course Title	Credit Hour
ETH-511	Introduction to Biomedical Ethics	3 (3+0)
GPT-512	General Pathology	3 (2+1)
RPT-513	Radiation Protection	3 (2+1)
DNM-514	Diagnostic Procedure in	3 (2+1)
IGP-515	Imaging & Processing I	3 (2+1)
CPI-519	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 6**

Course No	Course Title	Credit Hour
ULT-521	Ultrasound Technology	3 (2+1)
FID-522	Fundamental of Infectious	3 (2+1)
NPT-523	Basic Nursing Procedure and	3 (2+1)
ROT-524	Radiation Oncology	3 (2+1)
IGP-525	Imaging & Processing II	3 (2+1)
CPI-529	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 7**

Course No	Course Title	Credit Hour
RSM-611	Research Methodology	3 (3+0)
CTO-612	Computerized Tomography	3 (2+1)
MRI-613	Magnetic Resonance	3 (2+1)
ROT-614	Radiation Oncology	3 (2+1)
INR-615	Interventional Radiology	3 (2+1)
CPI-619	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 8**

Course No	Course Title	Credit Hour
RPJ-621	Research Project	3 (0+3)
QCM-622	Fundamentals of Quality Control	3 (2+1)
ANG-623	Angiography	3 (2+1)
FLM-624	Fluoroscopy & Mammography	3 (2+1)
ECR-625	Common Emergency	3 (3+0)
INT-629	Internship	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

# Curriculum

## BS - MT in Operation Theatre Sciences

### Semester 1

Course No	Course Title	Credit Hour
ANA-311	Elementary Anatomy	3 (2+1)
MIC-312	Clinical Microbiology I	3 (2+1)
BIO-313	Clinical Biochemistry I	3 (2+1)
QUR-314	Quantitative Reasoning-I	3 (3+0)
ISS-315	Islamic Studies/ Moral Ethics	2 (2+0)
ENG-316	Functional English	3 (3+0)
<b>Total</b>	<b>Total Credit Hours</b>	<b>17</b>

### Semester 2

Course No	Course Title	Credit Hour
PHY-321	Elementary Physiology	3 (2+1)
MIC-322	Clinical Microbiology II	3 (2+1)
BIO-323	Clinical Biochemistry II	3 (2+1)
QUR-324	Quantitative Reasoning-II	3 (3+0)
ICP-325	Ideology & constitution of	2 (2+0)
ENG-326	Expository Writing	3 (3+0)
CCE-327	Civics and community	2 (1+1)
<b>Total</b>	<b>Total Credit Hours</b>	<b>19</b>

### Semester 3

Course No	Course Title	Credit Hours
NSC-411	Natural Sciences (Health &)	3 (2+1)
SCS-412	Social Sciences	2+0
PST-413	Pakistan Studies	2 (2+0)
ANH-414	Creative Art and Humanities	2 (2+0)
PHM-415	Clinical Pharmacology I	3 (2+1)
IOO-416	Introduction to OT Organization	3 (2+1)
UHQ-417	Understanding of Holy Quran-I	1 (0+1)
<b>Total</b>	<b>Total</b>	<b>16</b>

### Semester 4

Course No	Course Title	Credit Hours
ETR-421	Entrepreneurship	2+0
ICT-422	Application of information and	3 (2+1)
FOT-423	Fundamental Operation	3 (2+1)
OTI-424	OT Instrumentation	3 (2+1)
PHM-425	Clinical Pharmacology II	3 (2+1)
UHQ-427	Understanding of Holy Quran-II	1 (0+1)
CPO-429	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total</b>	<b>18</b>

**Semester 5**

Course No	Course Title	Credit Hour
ETH-511	Introduction to Biomedical Ethics	3 (3+0)
GPT-512	General Pathology	3 (2+1)
FOT-513	Fundamental operation	3 (2+1)
OTI-514	OT Instrumentation	3 (2+1)
SPO-515	Specialized Operation – I	3 (2+1)
CPO-519	Clinical practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 6**

Course No	Course Title	Credit Hour
CNT-521	Clinical Nutrition & Diet Therapy	3 (2+1)
FID-522	Fundamental of Infectious	3 (2+1)
NPT-523	Basic Nursing Procedure and	3 (2+1)
PPP-524	Perioperative patient	3 (2+1)
SPO-525	Specialized Operation II	3 (2+1)
CPO-529	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 7**

Course No	Course Title	Credit Hour
RSM-611	Research Methodology	3 (3+0)
MGH-612	Management in Healthcare	3 (3+0)
POM-613	Post-operative Intensive care	3 (2+1)
ANP-614	Anesthesia procedure	3 (2+1)
SPO-615	Specialized Operation – III	3 (2+1)
CPO-619	Clinical Practicum	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

**Semester 8**

Course No	Course Title	Credit Hour
RPJ-621	Research Project	3 (0+3)
QCM-622	Fundamentals of Quality Control	3 (2+1)
AOO-623	Advances in O.T Organization	3 (2+1)
OTM-624	Operation Theatre	3 (2+1)
SPO-625	Specialized Operation – IV	3 (2+1)
INT-629	Internship	3 (0+3)
<b>Total</b>	<b>Total Credit Hours</b>	<b>18</b>

# Fee Structure

Tuition fee charge are subject to change without any notice.  
Current charges are follows:

Fee Title	Undergraduate Program	Diploma	Technician Certification
Application Processing Fee	PKR 2,800	PKR 1,500	PKR 1,500
Admission Fee	PKR 36,300 (One time)	PKR 7,700 (One time)	PKR 7,700 (One time)
Security Deposit	PKR 6,000 (Refundable)	PKR 10,000 (Refundable)	PKR 10,000 (Refundable)
Registration / Enrollment Fee	PKR 2,000 (One time)	PKR 1,500 (One time)	PKR 1,500 (One time)
Lab / Library Fund	PKR 5,500 (One time)	—	—
Examination Fee (Per Semester)	PKR 3,500 / Semester	PKR 2,200 (Subject to SMF)	PKR 2,200 (Subject to SMF)
Tuition Fee (Per Course)	PKR 72,600 / Semester	PKR 8,200 / Month	PKR 6,500 / Month
JSMU Admission Fee	PKR 1,997 (One time)	—	—
JSMU Tuition Fee	PKR 3,993 / Semester	—	—
Student ID Card Fee	PKR 1,500 (One time)	—	—
Registration Fee (AHPC)	PKR 1,000 (One time)	—	—
Other Fee Charges	PKR 4,000 (One time)	PKR 3,300 (One time)	PKR 3,300 (One time)

## Instructions

1. Every applicant will be issued with a unique challan number which will be generated after the candidates submit their CNIC or phone number in the online portal. System will generate unique challan number.
2. Candidate should submit the mentioned fee on challan to any HBL branch.
3. Application needs to upload the image of paid fee challan on the portal.
4. After verification of documents system will generate admit cards.
5. Candidates with incomplete forms, attached unpaid fee or not meeting admission 17 criteria will not be issued admit cards.
6. The decision of the admission committee will be final.
7. Enrolment, Examination, Certification, Degree Convocation and Documents verification all fees to be paid by the candidate as per JSMU rules.
8. Management can change fee charges without any notice.

## Admission Requirements:

**Eligibility Criteria:** 12 years of education, intermediate (pre – medical) or A- level with at least 60% marks

**Age limit:** 17-22 years on admission

**Interview:** Final dates for the interview to be sent via email

**Merit formula:** SSC & HSSC (or equivalent): 40%,

Entry Test: 40% Interview 20%.

## Entry Test:

1. All candidate applying will have to appear in the written one correct multiple-choice question-based entrance test.
2. Candidate must score 60% marks to be selected for the nal interview by the selection committee.
3. Entry test will be based on A Level/Intermediate or equivalent.
4. Entry test curriculum/course content will be from following subjects. Biology, Physics, Chemistry, English, General knowledge & Analytical questions.

**Final decision:** Admission decision to be made after a final decision by the admission committee

## Documents to be submitted:

Application for admission to the course must be submitted online, available at IUHS website [www.iuhs.edu.pk](http://www.iuhs.edu.pk) ( Online portal link: <https://admission-iuhs.effii.app/application/> ) along with the following documents:

- Intermediate certificate or its equivalent from a recognised board/institute.
- Marks certificate of intermediate
- Matriculation certificate.
- Recent passport size photograph.
- Domicile and permanent residence certificate issued by a competent Authority (for Pakistani nationals).
- Computerised National Identity Card (for Pakistani nationals).



# General Performance Conduct

- Attendance in lectures is compulsory; students with less than 80% attendance will not be allowed to appear in examinations.
- Absences must be accounted for by parents/guardians.
- Students cannot form political or religious societies/organisations.
- No student unions may be formed without permission of the Principal.
- Students must maintain a neat, professional appearance (lab coats are mandatory).
- Any student without a lab coat will be fined.
- Students not meeting program standards may face dismissal or disciplinary action.
- Students are prohibited from private practice or employment; violations will be reported to the disciplinary committee.
- Publications (scientific or literary) require Principal's approval, with a draft copy submitted for record.
- Students may not address the national press on political matters or issues linked to college administration.
- Communication to higher authorities must go through the Principal.
- Smoking and other activities harmful to college discipline are strictly prohibited.
- The Principal may issue additional disciplinary orders as needed.

# Student Professional Conduct

- Academic Integrity - Students must avoid plagiarism, cheating, and academic misconduct; violations may result in suspension or expulsion.
- Respect - Students must respect the dignity of faculty, staff, and fellow students; harassment, bullying, or disrespect will result in disciplinary action.
- Confidentiality - Students must protect patient information, research data, and sensitive institutional information; breaches will result in investigation.
- Use of University Property - Resources, facilities, and equipment must be used responsibly and only for academic purposes.
- Punctuality - Students must attend scheduled classes and clinical commitments; repeated tardiness or unauthorised absence will affect academic standing.
- Dress Code - Professional attire or prescribed uniforms must be followed.
- Zero Tolerance for Harassment - Any form of harassment, including sexual harassment and discrimination, will face strict disciplinary measures.
- Alcohol, Substance Abuse, and Smoking - Prohibited on campus; violations may result in suspension or expulsion.
- Reporting Violations - Students are encouraged to report unethical behaviour; reports will be handled confidentially without retaliation.
- Patients' Rights - Students must respect patient dignity, confidentiality, and informed consent.
- Research Misconduct - Falsification, plagiarism, or fabricating data will be investigated by the Institutional Review Board.
- Open Communication - Students are encouraged to report unethical behaviour through official channels; whistleblowers will be protected.

## Rustication

A student may be rusticated by the disciplinary committee for up to three years if found guilty of:

- Taking forceful possession, making unauthorised use of, or damaging any property.
- Involvement in agitational activities.
- Indulging in actions detrimental to the good order of the college.
- Adopting unfair means during examinations.
- Disobeying an order of suspension.
- Any other act deemed inappropriate by the Principal or the disciplinary committee.

## Suspension

A student shall be liable to suspension of up to six months for:

- Using unfair means during examinations (further action may be taken by the disciplinary committee, and the student will not be allowed to appear in remaining exams until a final decision is made).
- Misbehaviour with faculty, staff, or fellow students.
- Disobedience or spreading false rumours.
- Using indecent or offensive language.
- Inciting violence or raising political/religious slogans.
- Quarrelling, fighting, or abusive behaviour.
- Violation of the dress code.
- Interfering with administration, including examination processes.
- Acts of immorality.
- Involvement in political activity, including displaying posters.
- Continuous absence of more than three weeks without permission.
- Appearance in an FIR for a non-bailable criminal offense (suspension will continue until the case is resolved).

# ICMAH Teaching & Learning Strategy

## ICMAH TEACHING & LEARNING STRATEGY

### Instructional Method

- Large group interactive lectures followed by discussion and Q/A session.
- Small group discussions
- Group presentations
- Individual presentations
- Case studies
- Project assignment
- Practical / Skill lab sessions

NOTE: English and Urdu language will be used as medium of Instruction. However, exams will be conducted in English language only.

## ASSESSMENT AND INTERNAL EVALUATION

- Class Tests / Assignments
- MCQs, SAQs, Short essays
- Viva
- OSPE / OSCE
- Formative feedback

## RESPONSIBILITIES OF CANDIDATES

- Candidate shall pursue the training at ICMAH & IHHN , according to the curriculum
- Every candidate must maintain his her LOG / SKILLS BOOK in consultation with the Program coordinator and IHHN Faculty
- Every student shall maintain his / her Specialty Clinical Portfolios in consultation with Specialty Clinical coordinator.
- He / She will have to attend all mandatory workshops, failing which the examination form will not be accepted.
- Students shall strictly follow the ICMAH Rules and Regulations.
- Smoking is strictly prohibited
- Students will not be allowed to take part in any political activity.