

PROSPECTUS
2026-2027

THE UNIVERSITY OF MODERN SCIENCES

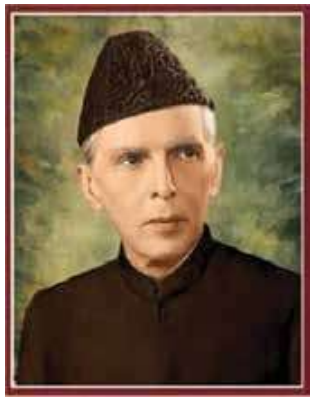
THE UNIVERSITY OF MODERN SCIENCES

بِسْمِ اللَّهِ الرَّحْمَٰنِ الرَّحِيمِ

PROSPECTUS
2026-2027

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Quaid-e-Azam
MUHAMMAD ALI JINNAH
FOUNDER OF PAKISTAN

Pakistan is proud of her youth, particularly the students, who are nation builders of tomorrow. They must fully equip themselves by discipline, education and training for the arduous task lying ahead of them.

Shair-e-Mashriq
ALLAMA MUHAMMAD IQBAL

Be aware of your own worth, use all of your power to achieve it. Create an ocean from a dewdrop, Do not beg for light from the moon, obtain it from the spark with in you .



WELCOME TO

THE UNIVERSITY OF MODERN SCIENCES

TANDO MUHAMMAD KHAN, SINDH - PAKISTAN

A place to nurture ethical and competent health care professionals, ready to take on challenges and spread knowledge for a better world.

DISCLAIMER

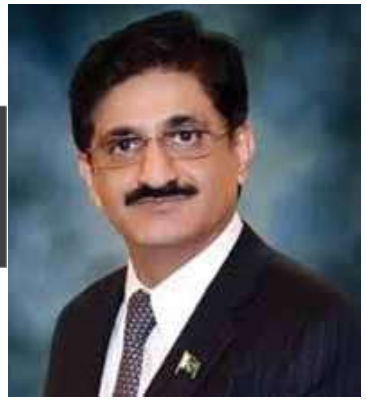
Whilst every effort has been made to ensure the accuracy of the information provided in this prospectus, The University reserves the right to after, without notice after any of the content publish herein are otherwise advertised.





Nehal Hashmi
Governor of Sindh

Murad Ali Shah
Chief Minister of Sindh



MEMBERS OF PROFESSIONAL ASSOCIATES COMMUNITY SERVICES FOUNDATION



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MANAGING DIRECTOR



ENGR: QAMAR ZAMAN
DEPUTY MANAGING DIRECTOR



ENGR: QAZI FAIZ MUHAMMAD
DEPUTY MANAGING DIRECTOR II



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DR. MUSHTAQ AHMED NIZAMANI
DIRECTOR



MR. MOHAN LAL
DIRECTOR



MR. JAVED KHAN
DIRECTOR



ENGR. PIR ASIM JAN SIRHANDI
DIRECTOR

PRINCIPAL OFFICERS OF THE UNIVERSITY



DR. MUHAMMAD IQBAL MEMON
CHANCELLOR



PROF. DR. FEROZ MEMON
VICE CHANCELLOR



ENGR. QAZI FAIZ MUHAMMAD
PRO VICE CHANCELLOR



PROFF. DR. KHALIL-UR-REHMAN
RECTOR



MUSHTAQ ALLY QURESHI
REGISTRAR



DR MADIHA ZAKI QURESHI
CONTROLLOR OF EXAMINATION

Message of the
CHANCELLOR



DR. MUHAMMAD IQBAL MEMON
CHANCELLOR

The University Of Modern Sciences has been a torch bearer of quality medical education in the country for more than a decade. Known for quality education, the institution has been consistently ranks amongst the leading medical institutions in the country. As the Patron of The University of Modern Sciences, I am proud to lead the institution in fulfilling its commitment to improve the healthcare sector of the nation through excellence in medical education, biomedical research and patient care.

As methods of learning, discovery and healthcare delivery grow increasingly complex; The University of Modern Sciences is keeping pace and breaking new grounds. Our worth-mentioning achievements are the recruitment of clinical and research faculty of national renown, provision of latest technology to further learning and the expansion of academic facility to meet the needs of our students pertinently.

Wlth a dedicated and highly skilled faculty. excellent infrastructure, library facilities, museums and laboratories for skills training, the institution has been attracting innumerable students for the past many years from both within and outside the country. The graduates from the college are successfully practicing medicine not only in Pakistan but in tha USA, UK, Middle East and other European countries.

Our Endeavour has been to provide the best to the students preparing them to take up the responsibility of health care provision professionally, ethically and safely. They are specifically trained to conduct research in all the aspects of health and provide evidence-based healthcare pertaining to the ever changing requirements of populations. Consequently, the performance of our graduates has always been outstanding as they pursue the institutional goals of excellence in medical education and healthcare.

Message of the
VICE-CHANCELLOR

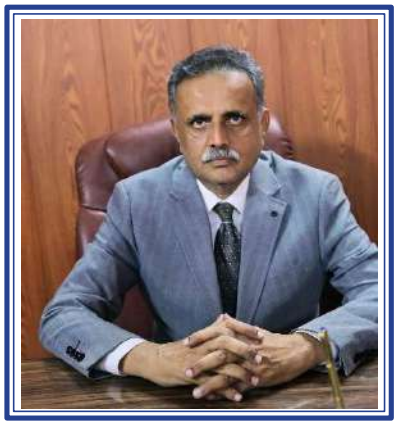


PROF. DR. FEROZ MEMON
VICE-CHANCELLOR

I have joined THE UNIVERSITY OF MODERN SCIENCES (TUMS) at an exciting and indeed a challenging time, where the university finds itself at the cross roads of its embryonic development and being a driver of societal change. Leading a university is an intellectually rewarding venture, but one that is far from easy. It requires certain equipoise between efficient management and the recognition and enhancement of Intellectual freedom and creativity, TUMS was brought into existence with the very idea that It will assume a stewardship role for health care education and research in the Tando Muhammad Khan Sindh – Province and through the work of my predecessors.

TUMS has been able to launch multiple academic programs to fulfill that role. Now, I have accepted the challenge to not only nurture and consolidate the current portfolio of programs but also to further expand it according to the needs of our health system. However, I feel that there is an even more important task at hand that is to inculcate the true essence of education into the students of TUMS and to make them find a bigger purpose in life rather than considering their qualifications only as a vehicle for financial success. And it is perhaps the greatest social influence a university can have, for we too often forget that there is a moral core to what we do. My vision is to make TUMS a center of knowledge sharing and generation, with the critical study and debate of human values and what it means to be human, at its heart. I aim to lead the university into an era of innovation and cutting edge scientific inquiry with a truly scientific, social, and economic impact. A place where students are enabled and stimulated to achieve human excellence, and where the ethics and values of quality assurance, transparency, merit, openness, accessibility, participatory approach and gaining public confidence are held supreme.

Message of the
RECTOR



PROF. DR. KHALIL UR REHMAN KHOUMBATI
RECTOR

It is a privilege to lead **The University of Modern Sciences (TUMS)** at a time when higher education is evolving rapidly and the expectations from academic institutions are greater than ever. Universities today are not merely centers of learning; they are platforms for innovation, critical thinking, leadership, and meaningful contributions to society.

At TUMS, we believe that education is the foundation of progress and that knowledge carries a responsibility to serve humanity. Our commitment extends beyond delivering quality academic programs. We strive to develop competent professionals, responsible citizens, ethical leaders, and lifelong learners who possess the knowledge, confidence, and compassion to make a positive difference in the world.

Our vision is to establish TUMS as a distinguished institution recognized for academic excellence, quality education, impactful research, technological advancement, and community engagement. We are committed to strengthening our academic foundations, introducing emerging disciplines, promoting interdisciplinary collaboration, and creating opportunities that prepare our students to meet the challenges of an increasingly interconnected world.

We recognize that meaningful education requires an environment where curiosity is encouraged, ideas are valued, innovation is supported, and every individual is given the opportunity to excel. Therefore, we continue to foster a culture of merit, integrity, transparency, inclusiveness, accountability, and continuous improvement across all spheres of the university.

I firmly believe that the true success of an educational institution is measured not only by its academic achievements but also by the positive impact its graduates create in society. Our responsibility is to empower young minds with the ability to think independently, act ethically, embrace change, and contribute constructively to national and global development.

As we move forward, I invite our faculty, students, parents, alumni, academic partners, and all stakeholders to become active partners in this shared journey of growth and transformation.

Together, let us build a university where knowledge inspires innovation, education transforms lives, and excellence shapes the future.



MISSION

TO ENSURE ACADEMIC EXCELLENCE THROUGH DELIVERANCE OF QUALITY EDUCATION AND APPLIED RESEARCH IN A COLLEGIATE ENVIRONMENT HAVING STRONG LINKAGES WITH INDUSTRY AND INTERNATIONAL COMMUNITY TO MEET THE SOCIETAL CHALLENGES.



VISION

TO BECOME A KNOWLEDGE AND CREATIVITY DRIVEN INTERNATIONAL UNIVERSTIY THAT CONTRIBUTES TOWARDS DEVELOPMENT OF SOCIETY.



CORE VALUES

- EXCELLENCE
- SELF DISCIPLINE
- INTEGRITY



The University of Modern Sciences Located in Tando Muhammad Khan, Sindh, Pakistan. It is the 1st ever private university of rural Sindh. Keeping the growing need of the demand of quality education in the less privilege areas, the "Professional Associates Community Services Foundation, Tando Muhammad Khan (PACSF)" has established, university under the name of "The University of Modern Sciences" and the Sindh Assembly has granted its chartered. AND the University accredited to run their courses in various Faculties by recognized by HEC.

THE UNIVERSITY OF MODERN SCIENCES

TANDO MUHAMMAD KHAN

ACADEMIC CALENDAR - 2027

Activity	Day(s)	Date(s)
Orientation Day	Friday	1 January 2027
Commencement of Classes	Monday - Friday	04/01/2027 to 26/02/2027
Mid Term Examinations	Monday - Friday	01/03/2027 to 05/03/2027
Commencement of End-Term Classes	Monday - Friday	08/03/2027 to 30/04/2027
Revision / Examinations Preparation Leave	Monday - Friday	03/05/2027 to 14/05/2027
Final Examinations	Monday - Friday	17/05/2027 to 28/05/2027

SUMMER VACATIONS

31 May - 25 July 2027

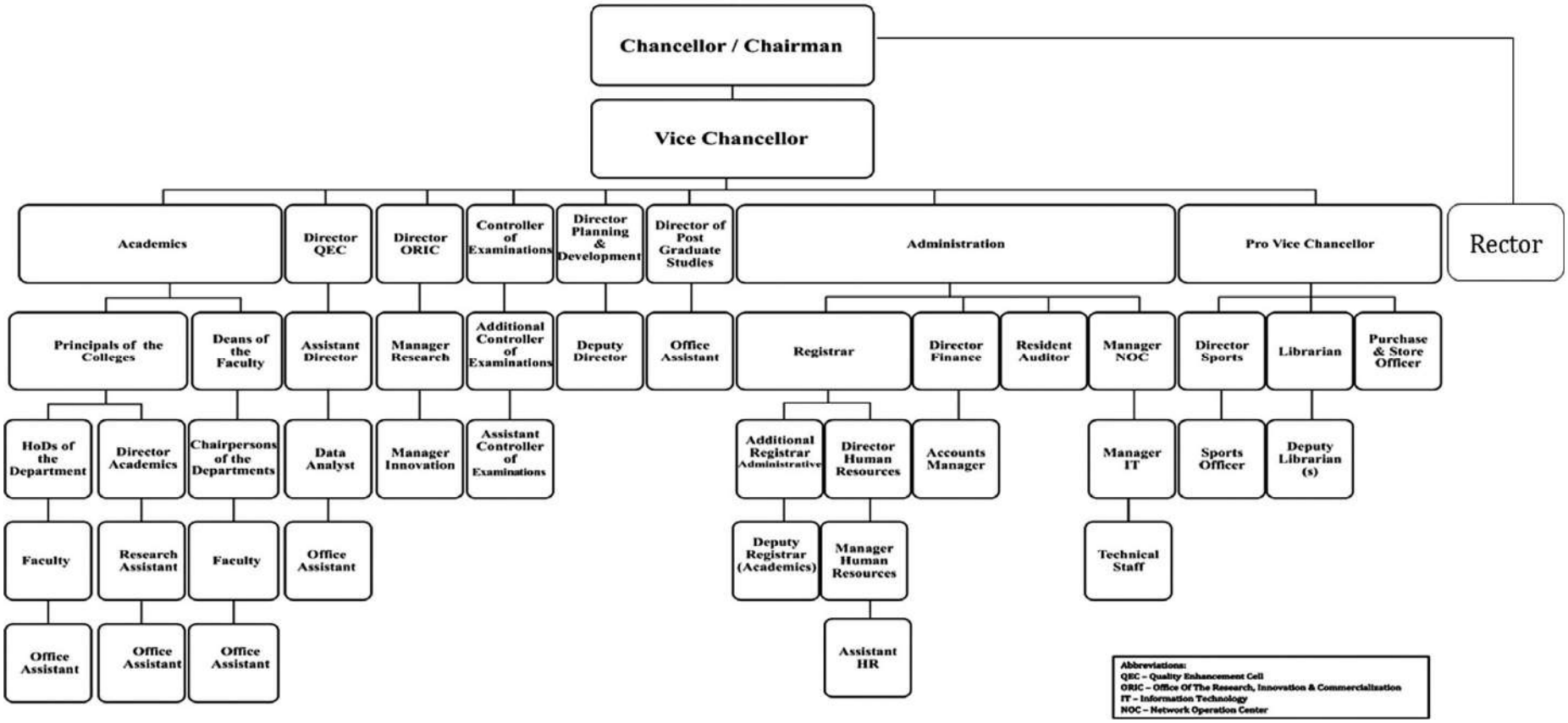
SEMESTER - II		
Activity	**Day(s)**	**Date(s)**
Commencement of Classes	Monday - Friday	26/07/2027 to 17/09/2027
Mid Term Examinations	Monday - Friday	20/09/2027 to 24/09/2027
Commencement of End-Term Classes	Monday - Friday	27/09/2027 to 19/11/2027
Revision / Examinations Preparation Leave	Monday - Friday	22/11/2027 to 03/12/2027
Final Examinations	Monday - Friday	06/12/2027 to 15/12/2027

WINTER VACATIONS

16 December – 31 December 2027

NATIONAL HOLIDAYS	
Holiday	**Date(s)**
Kashmir Day	5 February 2027
Eid-ul-Fitr*	10, 11, 12 March 2027
Pakistan Day	23 March 2027
Labour Day	1 May 2027
Eid-ul-Azha*	17, 18, 19 May 2027
Youm-e-Takbeer	28 May 2027
Youm-e-Ashura*	14, 15 June 2027
Independence Day	14 August 2027
Eid Milad-un-Nabi*	15 August 2027
Allama Iqbal Day	9 November 2027
Quaid-e-Azam Day	25 December 2027

TUMS ORGANISATIONAL CHART



PROGRAMS OFFER

UNDERGRADUATE PROGRAMS - TUMS

1.	Bachelor of Medicine and Bachelor of Surgery (MBBS)	05 Years
2.	Doctor of Physical Therapy – DPT	05 Years
3.	Doctor of Pharmacy – Pharm- D	05 Years
4.	BS. Medical Laboratory Technology –BS. MLT	04 Years
5.	Bachelor in Business Administration BBA	04 Years
6.	BS. Medical Imagining Technology –BS.M I T	04 Years
7.	BS. Computer Science BS.CS	04 Years
8.	Nursing - Generic BSN	04 Years
9.	Nursing – Post RN. BSN	02 Years

DIPLOMA PROGRAMS – INDUS COLLEGE OF NURSING

1.	Certified Nursing Assistant (CAN) Diploma	02 Years
2.	Post Basic "Cardiac Nursing" Diploma (CCU)	01 Year
3.	Post Basic "ICU Nursing" Diploma	01 Year
4.	Diploma in "CT Scan Technology"	01 Year
5.	Diploma In X-Ray	01 Year
6.	Diploma in Blood Bank and Transfusion	01 Year
7.	Diploma in Ophthalmology Technician	01 Year
8.	Diploma in Dental Technician	01 Year
9.	Diploma in Refraction Technician	01 Year

Graduate/POSTGRADUATE PROGRAMS - TUMS

1.	Biochemistry	MPHIL
2.	Information Technology	MS/PHD
3.	Business Administration	MS
4.	Ophthalmology	FCPS / MCPS
5.	Surgery	FCPS
6.	Surgery	FCPS
7.	Medicine	FCPS
8.	Diagnostic Radiology	MCPS
9.	Community Medicine	FCPS / MCPS
10.	Forensic Medicine	FCPS / MCPS
11.	Pharmacology & Therapeutics	FCPS
12.	Physiology	FCPS
13.	Pediatrics	FCPS / MCPS
14	Obstetrics & Gynecology	FCPS / MCPS
15.	Otto-Rhino-Laryngology E.N.T	FCPS / MCPS

CONSTITUENT COLLEGES / FACULTIES – TUMS

1.	Faculty of Medical & Health Sciences
2.	Indus Medical College
3.	Indus College of Pharmacy
4.	Indus College of Nursing
5.	Faculty of Science, Technology and Humanities
6.	Faculty of Allied Health Sciences
8.	Faculty of Business and Manage[illegible]

INDUS COLLEGE OF PHARMACY

MISSION

The mission of the Indus College of Pharmacy is to produce pharmacy graduates and practitioners, advance research, deliver quality evidence-based patient-centered care, and provide service to the profession.

OBJECTIVES

The objectives of doctor of pharmacy program are to prepare pharmacists who will have capacity, uptodate knowledge, strong ethical values, behavior, communication writing and social skills that will enable them to presue careers in.

Pharmaceutical care in health system and community environment where appropriate medication usage and patient's safety is paramount.

Pharmaceutical Industry and its quality system.

Academia, Research and development.

ELIGIBILITY CRITERIA

HSSC Intermediate Science Pre-Medical/A-Level or Equivalent:
Min. 60% marks or equivalent only certified by IBCC

NUMBER OF SEATS AND CATEGORIES OF SEATS

100 Seats are approved by Pharmacy Council of Pakistan.

Scheme of Study of Doctor of Pharmacy(Pharm.D)

This program comprises a minimum of 195 Credit Hours.

A STUDY PLAN
DOCTOR OF PHARMACY (PHARM. D)
DURATION: 5 YEARS

1st Professional Pharm.D.

SEMESTER I

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Physical Pharmacy -I	3+1	Major: Core
2.	Organic Chemistry - I	3+1	Major: Core
3.	Biochemistry I-	2+1	Major: Core
4.	Physiology I-	3+1	Allied/Interdisciplinary
5.	Functional English *	3	General Education
TOTAL CREDITS (18)			

SEMESTER II

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Physical Pharmacy - II	3+1	Major: Core
2.	Organic Chemistry - II	3+1	Major: Core
3.	Biochemistry - II	2+1	Major: Core
4.	Anatomy & Histology	2+1	Allied/Interdisciplinary
5.	Physiology-II	3+1	Allied/Interdisciplinary
6.	Islamic Studies*	2	General Education
TOTAL CREDITS (20)			

2nd Professional Pharm.D.

SEMESTER III

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Drug Delivery Systems and Formulation Science - I	3+1	Major: Core
2.	Pharmacology and Therapeutics-I	3+1	Major: Core
3.	Pharmacognosy - (Basic I)	3+1	Major: Core
4.	Pathology	2+1	Allied/Interdisciplinary
5.	Basic Pharmaceutical Microbiology**	2+1	General Education (Natural Sciences)
TOTAL CREDITS (18)			

SEMESTER IV

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Drug Delivery Systems and Formulation Science - II	3+1	Major: Core
2.	Applied Pharmaceutical Microbiology and Immunology	3+1	Major: Core
3.	Artificial Intelligence in Pharmacology and Therapeutics (Pharmacology and Therapeutics-II)	3+1	Major: Core
4.	Pharmacognosy (Basic - II)	3+1	Major: Core
5.	Pakistan Studies *	2	General Education
6.	Fehm-e-Quran I*	1	General Education
TOTAL CREDITS (19)			

3rd Professional Pharm.D.

DOCTOR OF PHARMACY (PHARM – D)
DURATION: 5 YEARS

STUDY PLAN-A

SEMESTER V

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Pharmacognosy (Applied)	3+1	Major: Core
2.	Pharmaceutical Analysis-I	3+1	Major: Core
3.	Pharmacology and Therapeutics-III	3+1	Major: Core
4.	Hospital and Community Pharmacy	2	Major: Core
5.	Quantitative Reasoning – I *	3	General Education
6.	Ideology & Constitution of Pakistan *	2	General Education
7.	Fehm-e-Quran II*	1	General Education
TOTAL CREDITS (20)			

SEMESTER VI

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Pharmacognosy (Advanced)	3+1	Major: Core
2.	Dispensing, Social & Administrative Pharmacy	2	Major: Core
3.	Pharmaceutical Analysis-II	3+1	Major: Core
4.	Pharmacology and Therapeutics-IV	3+1	Major: Core
5.	Applications of ICT (Especial focus on Pharmacy)*	2+1	General Education
6.	Quantitative Reasoning-II*	3	General Education (Contents of Biostatics added)
TOTAL CREDITS (20)			

4th Professional Pharm.D.

SEMESTER VII

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Industrial Pharmacy - I	3+1	Major: Core
2.	Biopharmaceutics and Pharmacokinetics - I	3+1	Major: Core
3.	Clinical Pharmacy-I	3+1	Major: Core
4.	Pharmaceutical Quality Management System	3	Major: Core
5.	Expository Writing *	3	General Education
6.	Entrepreneurship *	2	General Education
TOTAL CREDITS (20)			

SEMESTER VIII

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Industrial Pharmacy - II	3+1	Major: Core
2.	Biopharmaceutics and Pharmacokinetics - II	3+1	Major: Core
3.	Clinical Pharmacy-II	3+1	Major: Core
4.	Civics & Community Engagement* (Fulfill requirement of Pharmacy Practice-III)	1+1	General Education
5.	Pharmaceutical Quality Control	2+1	Major: Core
6.	Pharmaceutical Management and Marketing**	2	General Education (Social Sciences)
TOTAL CREDITS (19)			

A STUDY PLAN
DOCTOR OF PHARMACY (PHARM. D)
DURATION: 5 YEARS

5th (Final) Professional Pharm. D.

SEMESTER IX

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Pharmaceutical Technology - I	3+1	Major: Core
2.	Pharmaceutical Regulatory Science-I	3	Major: Core
3.	Medicinal Chemistry-I	3+1	Major: Core
4.	Advanced Clinical Pharmacy-I	3+1	Major: Core
5.	Clinical Pharmacology	2+1	Major: Core
6.	Field Experience (Pharmacy Practice)	3+0	Clinical Pharmacy Clerkship
TOTAL CREDITS (21)			

SEMESTER X

S.No	COURSE	CREDIT HOURS	CATEGORY
1.	Pharmaceutical Technology - II	3+1	Major: Core
2.	Pharmaceutical Regulatory Science-II	3	Major: Core
3.	Medicinal Chemistry-II	3+1	Major: Core
4.	Advanced Clinical Pharmacy-II	3+1	Major: Core
5.	Bioethics (Arts & Humanities Category) **	2	General Education
6.	Capstone Project ***	3	Capstone Project
TOTAL CREDITS (20)			

Pharm.D. Five-Year Credit Hours Summary

Pharm. D	1st Semester	2nd Semester	Credit Hour
Professional Year	Cr.Hr.	Cr.Hr.	Cr.Hr.
1st	18	20	38
2nd	18	19	37
3rd	20	20	40
4th	20	19	39
5th	18	20	38
Total Credit Hours	94	98	192

ACADEMIC PROGRAM Pharm.D

a) SEMESTER SYSTEM

Integrated teaching and semester system has been introduced at the University. The semester system is a unique system in which education is imparted through a process where student's performance and progress 1s assessed through different types of tests / assignments; they earn degree on their cumulative performance throughout the program of the study.

b) ATTENDANCE OF THE STUDENTS

a) The University is determined to Improve its teaching standards.

b) The record of attendance is essential io determine eligibility of students for her/ his appearing the examination,

c) Seventy five percent (75%) attendance is required to be eligible in the semester examination. However, 10% waiver (5% Waiver by Vice-Chancellor and 5% waiver by waiver committee) can be given on medical grounds or any other valid reason acceptable to the Vice-Chancellor and waiver committee.

d) The candidate having attendance less than 65% shall not be eligible to appear in the semester examination and will be considered as fail in that particular semester but he/she will be allowed to move in the next semester as mentioned in the "Organlzatton of Semester System".

e) However, the candidate having attendance less than 40% shall not be eligible to appear in the re-sits semester examination. He/ She shall appear with next junior batch after fulfilling the required attendance in that particular semester.

ORGANIZATION OF SEMESTER SYSTEM

1) For award of degree. students must pass all the courses taught during five years education Pharm-D with minimum CGPA 2.0.

2) Promotion from one academic year to next higher academic year.

3) Policy of conducting re-sit (repeat) examination.

4) (Re-sit Examination will be conduct in the end of academic year).

FIRST AND SECOND SEMESTER EXAMINATIONS (1ST PROFESSIONAL)

First semester students who after appearing in first semester (Regular) examination, either declared pass or fail will be allowed promotion to second semester.

Upon promotion to second semester, students who have either passed or fail in first semester examination both will be allowed to appear in second semester examination, if the cases for third semester are commenced. students of second semester (either passed or failed in first semester) will be allowed to attend the classes of third semester.

After announcement of second semester examination result, students of first and second semester will fall in the following groups.

a) Passed first and second semester
b) Passed second semester but failed in first semester
c) Passed first semester but failed in second semester
d) Failed in both semester
e) Students under category b, c and d will be allowed re-sit examination of first and second semester simultaneously while they remain under study process of third semester.

After announcement of re-sit examination result of both first and second semester, the students will

1) Students who passed first and second semester examinations completely. they will continue in third semester.
2) Students who failed in first or second semester or both examinations shall be reverted i. e termed back to first semester or in second or both junior batch.

Above group of students of Pharm.D after term back will repeat the failed subject(s) of semester I or II or both with junior batch.

Important Note

Any students, who fail of or pass the First Professional Exam in five chances availed or un-availed, shall cease to pursue further Pharmacy Education.

THIRD AND FOURTH SEMESTER EXAMINATIONS (2ND PROFESSIONAL)

Third semester students who after appearing in third semester (Regular) examination, either declared pass or fail will be allowed promotion to Fourth semester.

Upon promotion to fourth semester, students who have either passed or failed in third semester examination both will be allowed to appear in fourth semester examination, pending result of fourth semester examination, if the cases for fifth Semester are commenced, students of fourth semester (either passed or failed in third semester) will be allowed to attend the classes of Fifth semester,

After announcement of Fourth semester examination result, students of Third and Fourth semester will fall in the following groups.

a) Passed Third and Fourth semester
b) Passed Fourth semester but failed in Third semester
c) Passed Third semester but failed in Fourth semester
d) Failed in both semester

Students under category b, c, and d will be allowed re-sit examination of Third and Fourth semester simultaneously while they remain under study process of fifth semester.

After announcement of re-sit examination result of both Third and Fourth semester, the students will be bifurcated into the following

1) Students who passed Third and Fourth semester examinations completely, they will continue in Fifth semester.
2) students who failed in Third or in Fourth semester or both examinations shall be reverted i e termed back to Third semester or in Fourth or both with junior batch,

Above group of students of Pharm-D after termed back will repeat the failure subjects of Third and Fourth or both with junior batch.

FIFTH AND SIXTH SEMESTER EXAMINATIONS (3RD PROFESSIONAL)

Fifth semester students who after appearing in Fifth semester (Regular) examination, either declared pass or fail will be allowed promotion to Sixth semester.

Upon promotion to Sixth semester, students who have either passed or failed in Fifth semester examination both will be allowed to appear in Sixth semester examination, pending result of Sixth semester examination, if the classes for Seven semester are commenced, students of Sixth semester (either passed or failed in Fifth semester) will be allowed to attend the classes of Seventh semester.

After announcement of Sixth semester examination result, students of Fifth and Sixth semester will fall in the following groups.

a) Passed Fifth and Sixth semester
b) Passed Sixth semester but failed in Fifth semester
c) Passed Fifth semester but failed in Sixth semester
d) Failed in both semester

Students under category b, c, and d will be allowed re-sit examination of Fifth and Sixth semester simultaneously while they remain under study process of Seventh semester.

After announcement of re-sit examination result of both Fifth and Sixth semester, the students will be bifurcated into the following groups.

1) Students who passed Fifth and Sixth semester examinations completely, they will continue in Seventh semester.
2) Students who failed in Fifth or in Sixth semester or both examinations shall be reverted i-e termed back to Fifth Semester or in Sixth or both with junior batch.

Above group of students of Pharm-D after termed back will repeat the failure subjects of fifth and sixth or both with junior batch.

SEVENTH AND EIGHTH SEMESTER EXAMINATIONS (4TH PROFESSIONAL)

Seventh semester students who after appearing in Seventh semester (Regular) examination, either declared pass or fail will be allowed promotion to Eighth semester.

Upon promotion io Eighth semester, students who have either passed or failed in Seventh semester examination both will be allowed to appear in Eighth Semester examination, pending result of Eighth semester examination, if the classes for Ninth semester are commenced, students of Eighth semester.

After announcement of Eighth semester examination result, students of Seventh and Eighth semester will fall in the following groups.

a) Passed Seven and Eighth semester

b) Passed Eighth semester but failed in Seventh semester

c) Passed Seventh semester but failed in Eighth semester

d) Failed in both semester

Students under category b, c, and d will be allowed re-sit examination of Seventh and Eighth semester simultaneously while they remain under Study process of Ninth semester.

After announcement of re-sit examination result of both Seventh and Eighth semester, the students will be bifurcated into the following groups.

1) Students who passed Seventh anal Eighth semester examinations completely, they will continue in Ninth semester.

2) Students who failed in Seventh or in Eighth semester or both examinations shall be reverted i e termed back to seventh semester or in Eighth of both with junior batch.

Above group of students of Pharm -D after termed back will repeat the failure subjects of Seventh and Eighth or both with junior batch.

NINTH AND TENTH (FINAL) SEMESTER EXAMINATIONS (5TH PROFESSIONAL)

Ninth semester students who after appearing in Ninth semester (Regular) examination, either declared pass or fail will be allowed promotion to Tenth semester.

Upon promotion to Tenth (Final) semester, students who have either passed or failed in Ninth semester examination both will be allowed to appear in Tenth semester examination.

After announcement of Tenth semester examination result, students of Ninth and Tenth semester will fall in the following groups.

a) Passed Ninth and Tenth semester

b) Passed Tenth semester but failed in Ninth semester

c) Passed Ninth semester but failed in Tenth semester

d) Failed in both semester

Students under category a will be declared to have passed Pharm D examination completely and shall be awarded degree.

Students under category b, c, and d will be allowed re-sit examination of Ninth and Tenth semester simultaneously while they remain under study process of Ninth semester.

After announcement of re-sit examination result of both Ninth and Tenth semester, the students will be bifurcated into the following groups.

1) Students who passed Ninth and Tenth semester examinations completely. they will be Declared to have passed Pharm D examination and shall be awarded degree.

2) However, in case of failures in either ninth of tenth semester they will be allowed to appear in re-sit examination will continue to repeat failure subjects with junior batch till they completely pass Pharm.D examination.

FACILITIES OF DEPARTMENT OF PHARMACY

Facilities available

- Indus college of Pharmacy has a well-structured building that has six lecture halls, Auditorium, 1 Board Room and 4 seminar rooms that are fully air conditioned and equipped with audio visual facilities.

1) Departmental Libraries

2) There are different labs in departments including Pharmaceutics Lab, Microbiology Lab, Pharmaceutical Chemistry lab, Pharmacology lab, Physiology and Pathology, Biochemistry lab, Industrial Pharmacy lab and pharmaceutical quality management lab.

- Regular seminars workshops and conferences are organized for the dissemination of updated knowledge. Frequent career counseling sessions are also conducted.
- Students are with facility of mentorship in academic and administrative affairs.



FACULTY

PROF. DR. ABDUALLAH DAYO
PRINCIPAL

DR. MUHAMMAD MURTAZA QURESHI
ASSISTANT PROFESSOR

DR. KHALID HUSSAIN MUGHERI
LECTURER

DR. NABEELA
LECTURER
(on study leave)

DR. QURAT-UL-AIN
LECTURER
(on study leave)

DR. NAYAB MEHBOOB
LECTURER

DR. KANWAL ZAMAN
LECTURER
(on study leave)

DR. FEROZA WASTI
LECTURER

DR. SIDRA RAFIQUE
LECTURER

DR. JANNAT ZAIB
LECTURER

VISIT BY THE PHARMACY COUNCIL OF PAKISTAN

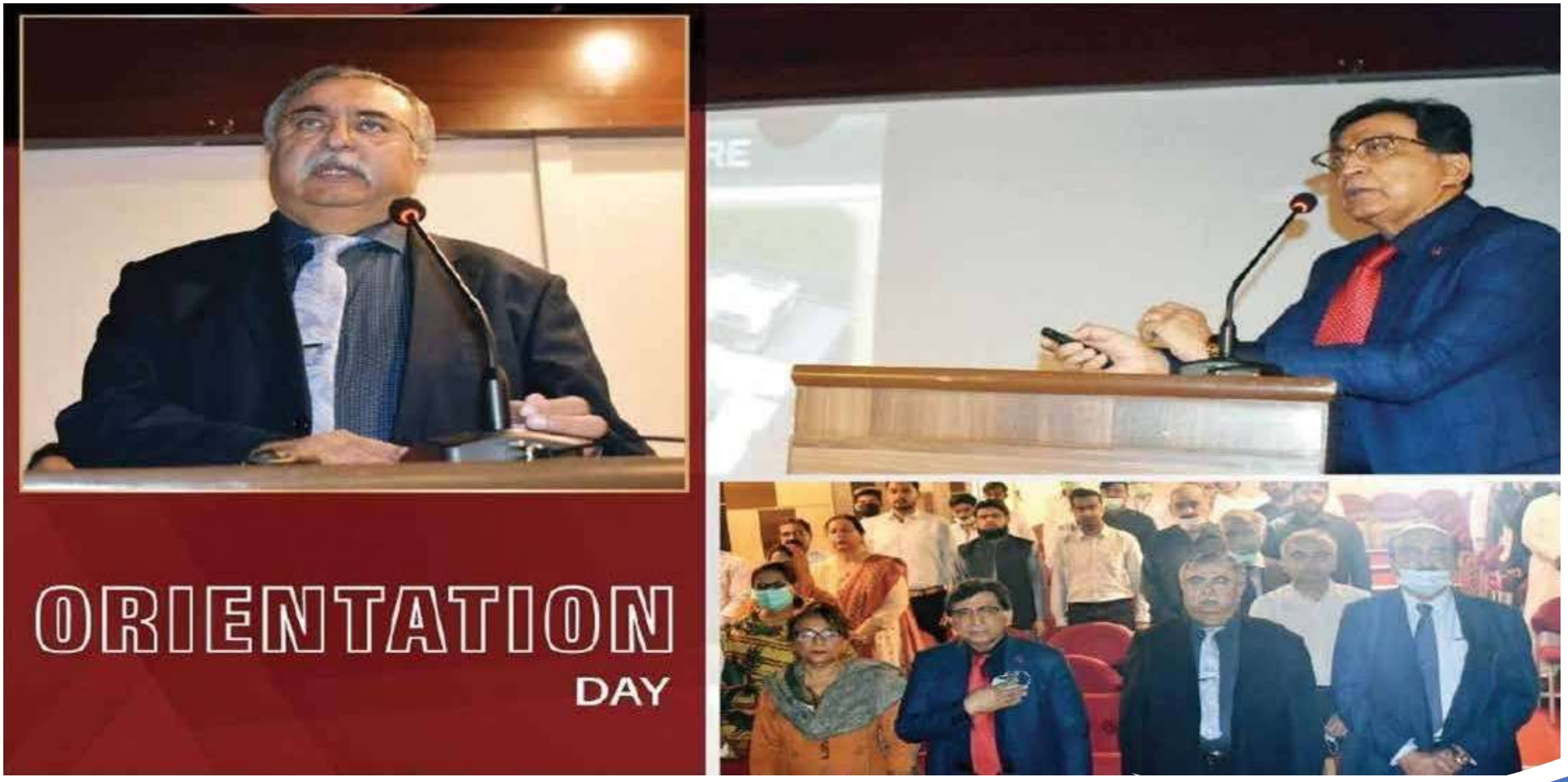








OREINTATION DAY



THE FACULTY OF ALLIED HEALTH SCIENCES

INSTITUE OF ALLIED HEALTH SCIENCES

PROGRAMS

1. BS Medical Laboratory Technology (MLT)
2. BS Medical Imaging Technology (MIT)
3. BS Doctor of Physiotherapy (DPT)

Vision

To shape the future of global healthcare by graduating a new generation of allied health professionals—leaders who are not only technically masterful but also deeply compassionate, innovative, and driven by integrity.

Mission

Our mission is to empower students to excel in Medical Laboratory Technology and Radiography & Imaging Technology through:

- A rigorous, hands-on curriculum that seamlessly integrates advanced theory with extensive clinical practice.
- Cultivating a culture of innovation and inquiry, where students and faculty collaborate on research that advances diagnostic and imaging sciences.
- Fostering unwavering ethical principles and a compassionate approach to patient-centered care.
- Forging strong alliances with leading healthcare institutions to ensure a direct pathway from education to impactful career.

Objectives

Our strategic objectives are to:

BACHELOR OF SCIENCE IN MEDICAL LABORATORY TECHNOLOGY (BSMLT)

Bachelor of Science in Medical Laboratory Technology (BSMLT) is a (four year degree program is directed towards medical Technologists who would like to improve their qualifications. The integration of these courses will provide the students with comprehensive knowledge to meet the educational needs of students who can be employed as medical technologists in medical laboratories, biotechnology and medical research as well as In tertiary care hospitals. The aim of this program is to equip the students with relevant professional knowledge, skills, techniques and ethical values to enable them to apply their acquired expertise at level between the clinicians and the patient for efficient health service delivery, to develop research skills and further to produce high quality professionals for organizations in various specialized and emerging area.[i]



VISION

"To stand at the forefront of global medical laboratory science-illuminating the path to better health through compassionate innovation, transformative education, and ground-breaking research."

MISSION

"To nurture principled, highly skilled medical laboratory professionals who blend advanced scientific expertise with a heartfelt commitment to patient-centred care delivering precise, reliable diagnostics that uplift lives and strengthen communities."

Program Objectives

1. Academic & Professional Excellence

- Offer a rigorous, internationally benchmarked curriculum—encompassing hematology, clinical biochemistry, microbiology, immunology, and molecular diagnostics.
- Enrich learning with cutting-edge laboratory equipment, simulation-based practice, and mentoring that sparks curiosity and confidence.

2. Research, Innovation & Discovery

- Cultivate a vibrant research culture focused on disease diagnostics, biomarker discovery, and next-generation laboratory automation.
- Forge collaborative partnerships with hospitals, industry, and research centers to translate new knowledge into meaningful health solutions.

3. Quality, Precision & Safety

- Train students to uphold ISO 15189, CLIA, and NABL standards, embedding meticulous quality control, data integrity, and laboratory safety in every procedure.
- Foster a mindset where accuracy is more than a metric—it is a promise to every patient we serve.

4. Leadership & Collaborative Competence

- Develop critical-thinking, communication, and leadership skills that inspire effective teamwork across the healthcare continuum.
- Embed extensive clinical rotations and industry placements to ensure graduates step into the field ready to contribute from day one.

5. Ethical & Regulatory Stewardship

- Instill unwavering respect for professional ethics, patient confidentiality, and regulatory frameworks such as HIPAA, OSHA, and WHO guidelines.
- Encourage moral courage and integrity, reminding students that every test result carries a human story.

6. Community Engagement & Global Health Impact

- Champion public-health initiatives, disease surveillance, and outreach programs that extend vital diagnostic services to underserved populations.
- Prepare professionals to confront emerging infectious diseases and strengthen global health security with empathy, expertise, and resolve.

Scheme of Study of BS MEDICAL LABORATORY TECHNOLOGY (BS MLT)

This program comprises of 138 Credit Hours.

A STUDY PLAN
BS MEDICAL LABORATORY TECHNOLOGY (BS MLT)
DURATION: 4 YEARS

1st Professional BS.MLT

SEMESTER I			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1.	Human Anatomy	3 (2-1)	Major: AHS Common Core
2.	Human Physiology	3 (2-1)	Major: AHS Common Core
3.	Introduction to Medical Biochemistry	2 (1-1)	Major: AHS Common Core
4.	Quantitative Reasoning – I *	3 (3-0)	General Education
5.	Functional English *	3 (3-0)	General Education
6.	Islamic Studies * (Religious Edu / Ethics for non-Muslim students)	2 (2-0)	General Education
7.	Applications of Information and Communication Technologies (ICT) *	3 (2-1)	General Education
Total Credit Hours = 19			

SEMESTER II			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1.	Introduction to Medical Laboratory Technology	2 (2-0)	Major: AHS Common Core
2.	First Aid & Emergency Care	2 (1-1)	Major: AHS Common Core
3.	Introduction to Medical Equipment & Technology	3 (2-1)	Major: AHS Common Core
4.	Introduction to Allied Health Sciences - I	2 (2-0)	Major: AHS Common Core
5.	Patient Safety & Infection Control	2 (1-1)	Major: AHS Common Core
6.	Quantitative Reasoning – II *	3 (3-0)	General Education
7.	Social Sciences **	2 (2-0)	General Education
Total Credit Hours = 16			

2nd Professional BS.MLT.

SEMESTER III			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1.	Introduction to Allied Health Sciences - II	2 (2-0)	Major: AHS Common Core
2.	General Pathology	3 (2-1)	Major: AHS Common Core
3.	Introduction to Public Health and Epidemiology	3 (3-0)	Major: AHS Common Core
4.	Natural Science ***	3 (2-1)	General Education
5.	Arts & Humanities ****	2 (2-0)	General Education
6.	Civics and Community Engagement *	2 (2-0)	General Education
7.	Ideology and Constitution of Pakistan *	2 (2-0)	General Education
8.	Understanding of Holy Quran - I *	1 (0-1)	General Education
Total Credit Hours = 18			

SEMESTER IV			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1.	General Pharmacology	3 (2-1)	Major: AHS Common Core
2.	Understanding of Holy Quran - II *	1 (0-1)	General Education
3.	Expository Writing *	3 (3-0)	General Education
4.	Healthcare Systems & Policies	2 (2-0)	Major: AHS Common Core
5.	Healthcare Marketing & Management	2 (2-0)	Major: AHS Common Core
6.	Introduction to Nursing Practice	3 (2-1)	Major: AHS Common Core
7.	Entrepreneurship *	2 (2-0)	General Education
8.	Pakistan Studies *	2 (2-0)	General Education
Total Credit Hours = 18			

A STUDY PLAN
BS MEDICAL LABORATORY TECHNOLOGY (BS MLT)
DURATION: 4 YEARS

3rd Professional BS.MLT.

SEMESTER V			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Hematology	3 (2-1)	Major: Domain Core
2	Clinical Biochemistry	3 (2-1)	Major: Domain Core
3	Clinical Bacteriology and Virology	3 (2-1)	Major: Domain Core
4	Medical Laboratory Instrumentations	3 (2-1)	Major: Domain Core
5	Molecular Biology	3 (2-1)	Major: Domain Core
6	Supervised Clinical Practice – I: Biochemistry	3 (0-3)	Major: Domain Core
Total Credit Hours (18)			

SEMESTER VI			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Chemical Pathology	3 (2-1)	Major: Domain Core
2	Medical Parasitology & Mycology	3 (2-1)	Major: Domain Core
3	Scientific Writing and Research Methods *****	3 (2-1)	Interdisciplinary
4	Biostatistics *****	3 (2-1)	Interdisciplinary
5	Supervised Clinical Practice – II: Microbiology	3 (0-3)	Major: Domain Core
Total Credit Hours (15)			

4th Professional BS.MLT.

SEMESTER VII			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Immunology & Serology	3 (2-1)	Major: Domain Core
2	Blood Bank & Transfusion Medicine	3 (2-1)	Major: Domain Core
3	Bioinformatics *****	3 (2-1)	Interdisciplinary
4	Biomarkers in Disease Diagnosis	3 (2-1)	Major: Domain Core
5	Supervised Clinical Practice – III: Hematology	3 (0-3)	Major: Domain Core
Total Credit Hours (15)			

SEMESTER VIII			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Artificial Intelligence in Health Care *****	2 (2-0)	Interdisciplinary
2	Clinical Lab Management	2 (2-0)	Major: Domain Core
3	Cytology and Histotechniques	3 (2-1)	Major: Domain Core
4	Biotechnology	3 (2-1)	Major: Domain Core
5	Supervised Clinical Practice – IV: Serology and Immunology	3 (0-3)	Major: Domain Core
6	Capstone Project	3	Capstone
7	Internship	3	Internship
Total Credit Hours (19)			

* HEC designed model courses for general education may be used by the university.
** HEC designed model course may be used by the university, OR the university / offering department may offer any course in the broader category of **"Social Sciences"** including but not limited to a course of Psychology, Sociology, Anthropology etc.
*** HEC designed model course may be used by the university, OR the university / offering department may offer any course in the broader category of **"Natural Sciences"** which should have relevance to the purpose of the degree program.

**** HEC designed model course may be used by the university, OR the university / offering department may offer any course in the broader category of **"Arts & Humanities"** including but not limited to a course of regional or international language such as Chinese, Arabic, French, Spanish etc. or any other course such as Philosophy, History etc.
***** The university / concerned department must offer at least 4 **interdisciplinary courses**, either the same courses mentioned in this scheme of studies or any other such courses to enhance the interdisciplinary understanding of the students, keeping in view the available academic, human, and infrastructural resources of the department.

SPECIALIZATION

	Hematology	Cr Hr	Molecular Biology	Cr Hr	Microbiology	Cr Hr	Clinical Chemistry	Cr Hr
Specialization I	Advanced Hematology Techniques	2+1	Molecular Diagnostics in Clinical Practice	2+1	Advanced Clinical Microbiology	2+1	Advanced Clinical Chemistry Techniques	2+1
Specialization II	Coagulation Studies and Disorder	2+1	Genomics and Transcriptomics	2+1	Mycology and Virology	2+1	Endocrinology and Metabolism Testing	2+1
Specialization III	Hematopathology	2+1	Proteomics and Metabolomics	2+1	Antimicrobial Resistance Mechanisms	3+0	Toxicology and Drug Monitoring	2+1
Specialization IV	Research In Hematology	3+0	Research In Molecular Biology	3+0	Research in Microbiology	3+0	Research in Clinical Chemistry	3+0
Specialization V	Diagnostic Hematology	2+1	Advanced Techniques in Molecular Diagnostics	2+1	Food and Environmental Microbiology	2+1	Biomarkers and Translational Medicine	2+1

*Note: All of these courses and distribution are based on HEC's UGE Policy (2023). All of the faculty agreed upon these course titles, all of the CLOs and PLOs are considered for the outlines / guidelines of each course title.

Following HEC's UGE Policy (2023) the Curriculum of BS MLT was formulated by the Faculty of Department of Medical Laboratory Technology, key points that are focused are as follows,

- **Gen. Ed.** – A total of 10 courses (comprising of 30 Cr. Hrs.) have been added and are represented by "**" (double asterisks).
- **Disciplinary / Major** – A total of 24 courses (comprising of 72 Cr. Hrs.) have been added and are represented by "*", "C" and "aC" (asterisk and letter representation respectively).
- **Interdisciplinary** – A total of 7 courses (comprising of 21 Cr. Hrs.) have been added and are represented by "pD".

♦● **Capstone Project** – According to HEC's UGE Policy 2023, fields based on clinical or practical expertise are required to follow a thorough research process to provide the foundational knowledge regarding Research and its parameters, keeping that in mind a total of 2 titles ("Research Project I & II") have been added comprising of 6 Cr. Hrs. in total.



Figure 1: Graphical Representation of Undergraduate Degree Programs (except for Associate Degrees)

FACULTY

PROF. DR. GHULAM MUJADID QURESHI
HOD & PROFESSOR

PROF. DR. INAYATULLAH MEMON
PROFESSOR

PROF. DR. MUMTAZ ALI MEMON
PROFESSOR

MR. HAMZA
LECTURER

MS. SOHNI ARBAB
LECTURER

MR. MUHAMMAD AZAM JAMALI
RESEARCH ASSOCIATE

MS. MARVI LATIF
RESEARCH ASSOCIATE

INTRODUCTION OF BS MEDICAL IMAGING TECHNOLOGY

Medical Imaging Technology is a medical professional course that uses medical imaging tests to diagnose and treat the diseases within the bodies of human. Radiology introduces a basic bifurcation of the science such as Diagnostic Radiology and Interventional Radiology. Diagnostic Radiology concern itself with use of imaging techniques such as X-Ray radiography, Ultrasound, Computed Tomography (CT), Nuclear Medicine including Position Emission Tomography (PET), Fluoroscopy and Magnetic Resonance imaging (MRI) are used to diagnose or treat diseases. Interventional Radiology is the performance of usually Minimally invasive medical procedures with guidance of medical technologies.






The Profession calls for considerable technological expertise. Radiology Technologist work as a part of healthcare teams in Diagnostic Imaging departments Accidents and Emergency, Intensive Care Units and Operation Theatres Sometimes Radiology Technologists are also involved in giving treatment to cancer patients.

Mission

To educate and develop highly competent, ethical, and innovative radiology technologists through a rigorous, research-informed curriculum. We are committed to advancing the diagnostic and imaging profession by providing exemplary patient-centered care, fostering leadership in clinical practice and administration, and meeting the evolving healthcare needs of Pakistan and beyond.

Vision

To be a premier program recognized for producing world-class radiology professionals who are leaders in diagnostic imaging, technological innovation, and healthcare improvement, setting the standard for excellence in clinical practice and research.

Program Objective

Upon successful completion of the program, graduates will be able to:

1. **Technical Proficiency:** Operate sophisticated radiological equipment (such as MRI, CT, Ultrasound, and Mammography) safely and effectively to produce high-quality diagnostic images.
2. **Critical Thinking & Problem Solving:** Identify, analyze, and solve complex problems in diagnostic imaging practice, management, and education through the application of advanced knowledge and evidence-based reasoning.

3. **Resource Management:** Demonstrate a high degree of competence in meeting patient and departmental needs through the optimal utilization of available resources.
4. **Research & Evaluation:** Apply scientific methods to critically evaluate research literature and integrate relevant findings into clinical practice to improve patient outcomes.
5. **Leadership & Advocacy:** Exhibit leadership, effective communication, and socio-political skills to influence policy, mobilize resources, and advocate for the advancement of the radiology profession and patient-centered care.
6. **Professionalism & Accountability:** Uphold the highest standards of professional ethics, accept accountability for all actions, and demonstrate a commitment to lifelong learning and continuous professional development.

Scheme of Study BS Medical Imaging Technology

A STUDY PLAN
BS-MEDICAL IMAGING TECHNOLOGY
DURATION: 4 YEARS

This program comprises of 138 Credit Hours.

1st year

SEMESTER I			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Human Anatomy	3 (2-1)	Major: AHS Common Core
2	Human Physiology	3 (2-1)	Major: AHS Common Core
3	Introduction to Medical Biochemistry	2 (1-1)	Major: AHS Common Core
4	Quantitative Reasoning – I *	3 (3-0)	General Education
5	Functional English *	3 (3-0)	General Education
6	Islamic Studies * (Religious Edu / Ethics for non-Muslim students)	2 (2-0)	General Education
7	Applications of Information and Communication Technologies (ICT) *	3 (2-1)	General Education
Total Credit Hours = 19			

SEMESTER II			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Introduction to Medical Imaging Technology	2 (2-0)	Major: AHS Common Core
2	First Aid & Emergency Care	2 (1-1)	Major: AHS Common Core
3	Introduction to Medical Equipment & Technology	3 (2-1)	Major: AHS Common Core
4	Introduction to Allied Health Sciences - I	2 (2-0)	Major: AHS Common Core
5	Patient Safety & Infection Control	2 (1-1)	Major: AHS Common Core
6	Quantitative Reasoning – II *	3 (3-0)	General Education
7	Social Sciences **	2 (2-0)	General Education
Total Credit Hours = 16			

2nd Year

SEMESTER III			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Introduction to Allied Health Sciences - II	2 (2-0)	Major: AHS Common Core
2	General Pathology	3 (2-1)	Major: AHS Common Core
3	Introduction to Public Health and Epidemiology	3 (3-0)	Major: AHS Common Core
4	Natural Science ***	3 (2-1)	General Education
5	Arts & Humanities ****	2 (2-0)	General Education
6	Civics & Community Engagement *	2 (2-0)	General Education
7	Ideology & Constitution of Pakistan *	2 (2-0)	General Education
8	Understanding of Holy Quran – I *	1 (0-1)	General Education
Total Credit Hours = 18			

SEMESTER IV			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	General Pharmacology	3 (2-1)	Major: AHS Common Core
2	Understanding of Holy Quran – II *	1 (0-1)	General Education
3	Expository Writing *	3 (3-0)	General Education
4	Healthcare Systems & Policies	2 (2-0)	Major: AHS Common Core
5	Healthcare Marketing & Management	2 (2-0)	Major: AHS Common Core
6	Introduction to Nursing Practice	3 (2-1)	Major: AHS Common Core
7	Entrepreneurship *	2 (2-0)	General Education
8	Pakistan Studies *	2 (2-0)	General Education
Total Credit Hours = 18			

A STUDY PLAN
BS-MEDICAL IMAGING TECHNOLOGY
DURATION: 4 YEARS

3rd year

SEMESTER V			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Radiation Sciences & Technology	2 (1-1)	Major: Domain Core
2	General Radiology & Positioning Techniques	2 (1-1)	Major: Domain Core
3	Fluoroscopy & Radiological Procedures	3 (2-1)	Major: Domain Core
4	Mammography & Special Radiological Techniques	3 (2-1)	Major: Domain Core
5	Radiobiology & Radiation Protection	2 (2-0)	Major: Domain Core
6	Applied Medicine *****	3 (3-0)	Interdisciplinary
7	Supervised Clinical Practice - I: X-Ray, Fluoroscopy & Mammography	3 (0-3)	Major: Domain Core
Total Credit Hours = 18			

SEMESTER VI			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Anatomy for Diagnostic Imaging	3 (2-1)	Major: Domain Core
2	Computed & Digital Radiography (CR & DR)	2 (2-0)	Major: Domain Core
3	Computed Tomography - I	2 (1-1)	Major: Domain Core
4	Magnetic Resonance Imaging - I	2 (1-1)	Major: Domain Core
5	General Surgery *****	3 (3-0)	Interdisciplinary
6	Supervised Clinical Practice – II: CR & DR, CT, MRI	3 (0-3)	Major: Domain Core
Total Credit Hours = 15			

4th Year

SEMESTER VII			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Computed Tomography - II	2 (1-1)	Major: Domain Core
2	Magnetic Resonance Imaging - II	2 (1-1)	Major: Domain Core
3	Clinical Sonography	3(1-2)	Major: Domain Core
4	Biostatistics *****	3 (3-0)	Interdisciplinary
5	Scientific Writing & Research Methods *****	3 (2-1)	Interdisciplinary
6	Supervised Clinical Practice - III: CT, MRI & Ultrasound	3 (0-3)	Major: Domain Core
Total Credit Hours = 16			

SEMESTER VIII			
S.No	**COURSE**	**HOURS**	**CATEGORY**
1	Clinical Pathology and Radiological Presentation	3 (2-1)	Major: Domain Core
2	Therapeutic Radiology	2 (1-1)	Major: Domain Core
3	Nuclear Medicine	2 (1-1)	Major: Domain Core
4	Interventional Radiology	2 (1-1)	Major: Domain Core
5	Supervised Clinical Practice IV: Nuclear Medicine, Interventional & Therapeutic Radiology,	3 (0-3)	Major: Domain Core
6	Capstone Project	3	Capstone
7	Internship	3	Internship
Total Credit Hours = 18			

Key Adjustments

* HEC designed model courses for general education may be used by the university.

** HEC designed model course may be used by the university, OR the university / offering department may offer any course in the broader category of **"Social Sciences"** including but not limited to a course of Psychology, Sociology, Anthropology etc.

*** HEC designed model course may be used by the university, OR the university / offering department may offer any course in the broader category of **"Natural Sciences"** which should have relevance to the purpose of the degree program.

**** HEC designed model course may be used by the university, OR the university / offering department may offer any course in the broader category of **"Arts & Humanities"** including but not limited to a course of regional or international language such as Chinese, Arabic, French, Spanish etc. or any other course such as Philosophy, History etc.

***** The university / concerned department must offer at least 4 **interdisciplinary courses**, either the same courses mentioned in this scheme of studies or any other such courses to enhance the interdisciplinary understanding of the students, keeping in view the available academic, human, and infrastructural resources of the department.

FACULTY

PROF. DR. NIZAMUDDIN MEMON
PROFESSOR

PROF. DR. ANEELA SHEEBA
PROFESSOR

DR. ADEEBA IQBAL MEMON
ASSOCIATE PROFESSOR

DR. GHAZALA SHAHEEN
ASSISTANT PROFESSOR

LT COL (R) DR SAJAD AHMED
ASSISTANT PROFESSOR

DR. EKTA RAJ
ASSISTANT PROFESSOR

DR. SHAHNILA KHALID
SENIOR REGISTRAR

MS. UZMA
RESEARCH ASSOCIATE

DR. LAEK-UL-ZAMAN
REGISTRAR

MS. ADINA SOOMRO
RESEARCH ASSOCIATE

DR. BAKHTAWAR
REGISTRAR

DR. SANUM NAZ
REGISTRAR

MS. AREEJ
INSTRUCTOR & ASSISTANT

DR FARHA YASMEEN
REGISTRAR

INTRODUCTION OF DOCTOR OF PHYSICAL THERAPY

Doctor of Physiotherapy (DPT or Physical Therapy) five (05) years program started at Indus College of Physical Therapy from the year 2021 - 22

This Institute in well-equipped with modern facilities i.e. Lecture Halls, Medical Physics Lab, various Physio-Labs, Reading and Lending Library, Out Patient Department and comfortable atmosphere with Air-conditioners and teaching aids. The students have not only the opportunity to see the working of gadgets but also have the chance to practically learn the methods of Physiotherapy on the patients attending the O.P.D and also wards in The University of Modern Sciences.

In order to keep improving and update the knowledge of faculty of IPRS and staff of OPD. organizing / conducting continuous Medical Education (CME) and Workshops. There has been a change in the teaching and training in the modality of treatment of various diseases through Physiotherapy with the advancements in the medical science, basic graduation throughout world is changing from four years program of Bachelor of Sciences in Physiotherapy to five (05) years degree program of Doctor of Physical Therapy (DPT). The TUMS nevertheless is not left behind and is the first Private Sector Institute of Sindh Province to start the Doctor of Physical Therapy (DPT) five years degree program.

MISSION

The Mission of the Doctor of Physical Therapy Program is to:

1. Maintain the department's long and traditions of leadership and excellence in Physical Therapy education.
2. Create innovate educational programs.
3. Promote the provision of ethical, efficient and cost-effective physical therapy services.
4. Serve the Physical therapy needs of the national and international communities..

VISION

The Vision of the DPT Program

To educate professional doctoral physical therapists who are knowledgeable, self-assured, adaptable, reflective, humanistic, and service-oriented and who by virtue or critical thinking, life-long learning, and ethical values, render independent physical therapists as advanced clinicians, researchers, and educators who are capable of discovering and applying new knowledge about physical therapy and relating physical therapy theory to practice. judgements concerning patient/ client needs to educate post professionals.



PROGRAM OBJECTIVE

Graduate of the Doctor of Physical Therapy Program will:

1. Demonstrate in-depth knowledge of the basics and clinical sciences relent to physical therapy, both on their fundamental context and in their application to the discipline of physical therapy. Understand correlate and apply theoretical foundations of knowledge to the practice of physical therapy, evaluate and clarify new or evolving theory relevant to physical therapy.
2. Demonstrate the behaviors of the scholarly by developing and utilizing the process of critical thinking inquiry, particularly focused on the improvement to the practice of the physical therapy and the delivery of health care.
3. Engage in effective practice through sound clinical decision making, critical self assessment and commitment to lifelong learning.
4. Demonstrate mastery of entry level professional clinical skill, provision of these services is based on the best available evidence and includes physical therapy.



ELIGIBILITY CRITERIA FOR ADMISSION

The admission in the course of Doctor of Physiotherapy will purely be on merit basis.

1. Those candidates who have been passed the Higher secondary School Certificate \HSC) Examinations (Pre Medical Group) or 'A' level (Pre-Medical) secured at least 60% in aggregate from any Board of Higher Secondary Education in Parisian or any Institution from Foreign Countries duly recognized by Inter-Board Committee of Chairman (IBCC) are eligible to apply for the DPT Admission.
2. The candidate should be permanent Resident of any District of Sindh
3. FORMULA FOCI WORK I NG OUT THE OVFRALL MERIT:
    1. HSC (Pre- Medical) / Equivalent Examination: 50% weightage
    2. Entry Test: 50% weightage
4. Once option exercised for admission will be final and there will be no change in the admission category from"Self Finance °or"Overseas"to District Merit but incase the candidate who is finally declared for provisional selection under District Merit Category, if, he/she leaves/ withdraws from provisional selection or incase such seat under same category falls vacant from any District of Sindh during the period before or up to 45 days same it shall be filled through changing the admission category of candidate who is standing next on merit and he/she has selected provisionally under Self-finance belonging from district whose merit seat falls vacant and such vacate seal shall be filled through maintaining of merit as per merit list Self-Finance category.
5. The period of 45 days shall be countable from the commencement of classes of 1st year 1st semester of every Academic Session.
6. In case a seats(s) fall/(s) vacant during first forty-five (45) days of the academic year of admission the same shall be filled by adapting the aforesaid procedure, any seat falling vacant upto period of 45 days, it shall not be filled and same shall stand
7. Vacant / forfeited.
8. The candidates who apply for admission on the basis of fake certificates/ documents and detected at any stage shall be liable to prosecution under criminal law and their admission shall be cancelled. The University reserves right to take legal action against the candidate.
9. Candidate who is finally selected for admission on District Merit/ Sell-Finance/ Overseas or any category shall have to pledge, through an affidavit that He/ She shall complete the course of Doctor of Physiotherapy IDPT) five (05) years. Incase He /she leaves the Institute.
10. Indus College of Physical Therapy before completing the Course for any reason, He /she will submit a Pay Order/ Demand Draft of Rs. 100, 000/ (Rupees One Lac Only} payable to the Institute of Physiotherapy & Rehabilitation Sciences. TUMS. as a penalty for wasting a precious seat.

Scheme of Study of Doctor of Physical Therapy (DPT)

This program comprises a minimum of 189 Credit Hours.

A STUDY PLAN
DOCTOR OF PHYSICAL THERAPY (DPT)
DURATION: 5 YEARS

YEAR 1 | First Semester

SEMESTER I			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Anatomy – I	3 (2-1)	Major
2	Physiology – I	3 (2-1)	Major
3	Kinesiology – I	3 (2-1)	Major
4	Functional English *	3 (3-0)	General Education
5	Natural Sciences **	3 (2-1)	General Education
6	Arts & Humanities ***	2 (2-0)	General Education
7	Understanding of Holy Quran – I *	1 (0-1)	General Education
Total Credits Hours = 18			

YEAR 1 | Second Semester

SEMESTER II			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Anatomy – II	3 (2-1)	Major
2	Physiology – II	3 (2-1)	Major
3	Kinesiology – II	3 (2-1)	Major
4	Quantitative Reasoning – I *	3 (3-0)	General Education
5	Expository Writing *	3 (3-0)	General Education
6	Pakistan Studies *	2 (2-0)	General Education
7	Understanding of Holy Quran – II *	1 (0-1)	General Education
Total Credits Hours = 18			

YEAR 2 | Third Semester

SEMESTER III			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Anatomy – III	3 (2-1)	Major
2	Physiology – III	3 (2-1)	Major
3	Medical Physics	3 (2-1)	Interdisciplinary
4	Principles of Biochemistry	3 (3-0)	Interdisciplinary
5	Applications of ICT *	3 (2-1)	General Education
6	Quantitative Reasoning – II *	3 (3-0)	General Education
Total Credit Hours = 18			

YEAR 2 | Fourth Semester

SEMESTER IV			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Neuro Anatomy	3 (2-1)	Major
2	Biomechanics & Ergonomics	3 (2-1)	Major
3	Human Psychology	2 (2-0)	Interdisciplinary
4	Ideology & Constitution of Pakistan *	2 (2-0)	General Education
5	Civics & Community Engagement *	2 (2-0)	General Education
6	Entrepreneurship *	2 (2-0)	General Education
7	Islamic Studies *	2 (2-0)	General Education
8	Social Sciences ****	2 (2-0)	General Education
Total Credit Hours = 18			

A STUDY PLAN
DOCTOR OF PHYSICAL THERAPY (DPT)
DURATION: 5 YEARS

YEAR 3 | Fifth Semester

SEMESTER V			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Exercise Physiology	3 (2-1)	Major
2	Pharmacology & Therapeutics – I	2 (2-0)	Major
3	Physical Agents & Electrotherapy – I	3 (2-1)	Major
4	Community Medicine & Rehabilitation	3 (2-1)	Major
5	Pathology & Microbiology – I	2 (2-0)	Interdisciplinary
6	Artificial Intelligence in Healthcare	2 (2-0)	Interdisciplinary
7	Supervised Clinical Practice – I	3 (0-3)	Clinical Practice
Total Credit Hours = 18			

YEAR 3 | Sixth Semester

SEMESTER VI			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Pharmacology & Therapeutics – II	2 (2-0)	Major
2	Physical Agents & Electrotherapy – II	3 (2-1)	Major
3	Therapeutic Exercises & Techniques	3 (2-1)	Major
4	Sustainable Development Goals: Health & Wellbeing	3 (2-1)	Interdisciplinary
5	Pathology & Microbiology – II	3 (2-1)	Interdisciplinary
6	Molecular Biology & Genetics	2 (2-0)	Interdisciplinary
7	Supervised Clinical Practice – II	3 (0-3)	Clinical Practice
Total Credit Hours = 19			

YEAR 4 | Seventh Semester

SEMESTER VII			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Medicine – I	3 (3-0)	Major
2	Surgery – I	3 (3-0)	Major
3	Musculoskeletal Physical Therapy	3 (2-1)	Major
4	Radiology & Diagnostic Imaging	3 (2-1)	Interdisciplinary
5	Scientific Inquiry & Research Methods	3 (2-1)	Interdisciplinary
6	Supervised Clinical Practice – III	4 (0-4)	Clinical Practice
Total Credit Hours = 19			

YEAR 4 | Eighth Semester

SEMESTER VIII			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Neurological Physical Therapy	3 (2-1)	Major
2	Medicine – II	3 (3-0)	Major
3	Surgery – II	3 (3-0)	Major
4	Sports Physical Therapy	2 (1-1)	Major
5	Biostatistics	3 (2-1)	Interdisciplinary
6	Professional Practice in Healthcare	2 (2-0)	Interdisciplinary
7	Supervised Clinical Practice – IV	4 (0-4)	Clinical Practice
Total Credit Hours = 20			

A STUDY PLAN
DOCTOR OF PHYSICAL THERAPY (DPT)
DURATION: 5 YEARS

YEAR 5 | Ninth Semester

SEMESTER IX			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Cardiopulmonary Physical Therapy	3 (2-1)	Major
2	Prosthetics & Orthotics	2 (2-0)	Major
3	Clinical Decision Making & Differential Diagnosis	3 (3-0)	Major
4	Emergency Procedures in Physical Therapy	2 (1-1)	Major
5	Evidence Based Practice	3 (2-1)	Major
6	Supervised Clinical Practice – V	4 (0-4)	Clinical Practice
7	Capstone / Research Project	3	Capstone / Research
Total Credit Hours = 20			

SEMESTER X			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Manual Therapy	3 (2-1)	Major
2	Integumentary Physical Therapy	2 (1-1)	Major
3	Women's Health Physical Therapy	3 (2-1)	Major
4	Pediatric & Neonatal Physical Therapy	3 (2-1)	Major
5	Geriatric Physical Therapy	3 (2-1)	Major
6	Supervised Clinical Practice – VI	4 (0-4)	Clinical Practice
7	Supervised Internship	3 (0-3)	Internship
Total Credit Hours = 21			

* HEC designed **model courses** for general education may be used by the university.

** The university / concerned department may offer any course in the broader category of "Natural Sciences" which should have relevance to the purpose of the degree program.

*** The university / concerned department may offer any course in the broader category of "Arts & Humanities" including but not limited to a course of regional or international language such as Chinese, Arabic, French, Spanish etc. or any other course such as Philosophy, History etc.

**** The university / concerned department may offer any course in the broader category of "Social Sciences" including but not limited to a course of Sociology, Social Work, Anthropology, Psychology, Education etc.

NOTE

This scheme of curriculum is also applicable to annual system; in which two consecutive semesters will be considered as one professional year.

Credit Hours Distribution Is as Following

Theory

one credit hour shall be equal to one hour of teaching per day three classes per week throughout the semester.

Clinical

one credit hour shall be equal to three hours of clinical work per week throughout the semester.

HOUSE JOB

After graduation, DPT graduates wilt be absorbed for the House Job for period of one (01) year in the hospital's affiliated to the University of Modern Sciences. They will be paid monthly stipend after successfully completion will have the certificates of internship / House Job.

EVALUATION SYSTEM

Log Book

For Theory

For Practical / Clinical

Internal Evaluation

(After 6th or 12th week of every semester)

Practical / Lab

one credit hour shall be equal to three hours of lab work per week throughout the semester.

Research

One credit hour shall be equal to three hours of research work per week throughout the semester.

Semester Examination

SBQs	50
SEQs	30
Attendance	10
Internal Evaluation	10
Total	100
Viva / Practical	100

RULES OF EXAMINATION

1. The students having minimum 75% attendance and are cleared all dues of fees will be eligible to appear in the semester examinations. Any student who fails to maintain minimum attendance as prescribed by the University / Indus College of Physical Therapy for appearance, his/her examination form shall not be forwarded to the Controller of Examinations (UG).
2. Beside the Semester Examinations, two internal Evaluation Tests after every six (O6) Weeks study will be conducted and students should secure at 50% marks in each test.
3. The organization of semester system is given below.

PROMOTION POLICY

Promotion from one academic year to next higher academic year. Policy of conducting Re-sit repeat examination.

First and Second Semester Examinations.

1st semester students who after appearing in 1st Semester (Regular) examination, either declared pass or fail will bs allowed promotion to 3rd Semester.

Upon promotion in 2nd Semester, Students who have either passed or failed in 1st Semester examination both will be allowed to appear in 2nd Semester examination.

Pending result of 2nd Semester examination, if the classes for 3rd Semester are commenced, students of 2nd Semester (Either passed or failed in 2nd semester) will be allowed to attend the classes of 3rd semester.

After announcement of 2nd semester examination result. students of 1st and 2nd Semesters will full in the following groups:

a) Passed First and Second Semesters.

b) Passed Second Semester but failed In First semester.

c) Passed First Semester but failed in Second Semester

d) Failed in both the semesters.

Students under category B, C and D will then be allowed re-sit examinations of 1st and 2nd Semesters simultaneously while they rema in under study process of 3rd Semester.

After announcement of re-sit (repeat) examinations result of both 1st & 2nd semesters, the students will be bifurcated into the following groups:

1. Passed 1st 6 2nd semester's examinations completely they will continue in 3rd Semester

2. Students who failed either in 2nd Semester or in 2nd Semester or both semester examinations shall be reverted i. e. termed back to 1st Semester or 2nd semester.

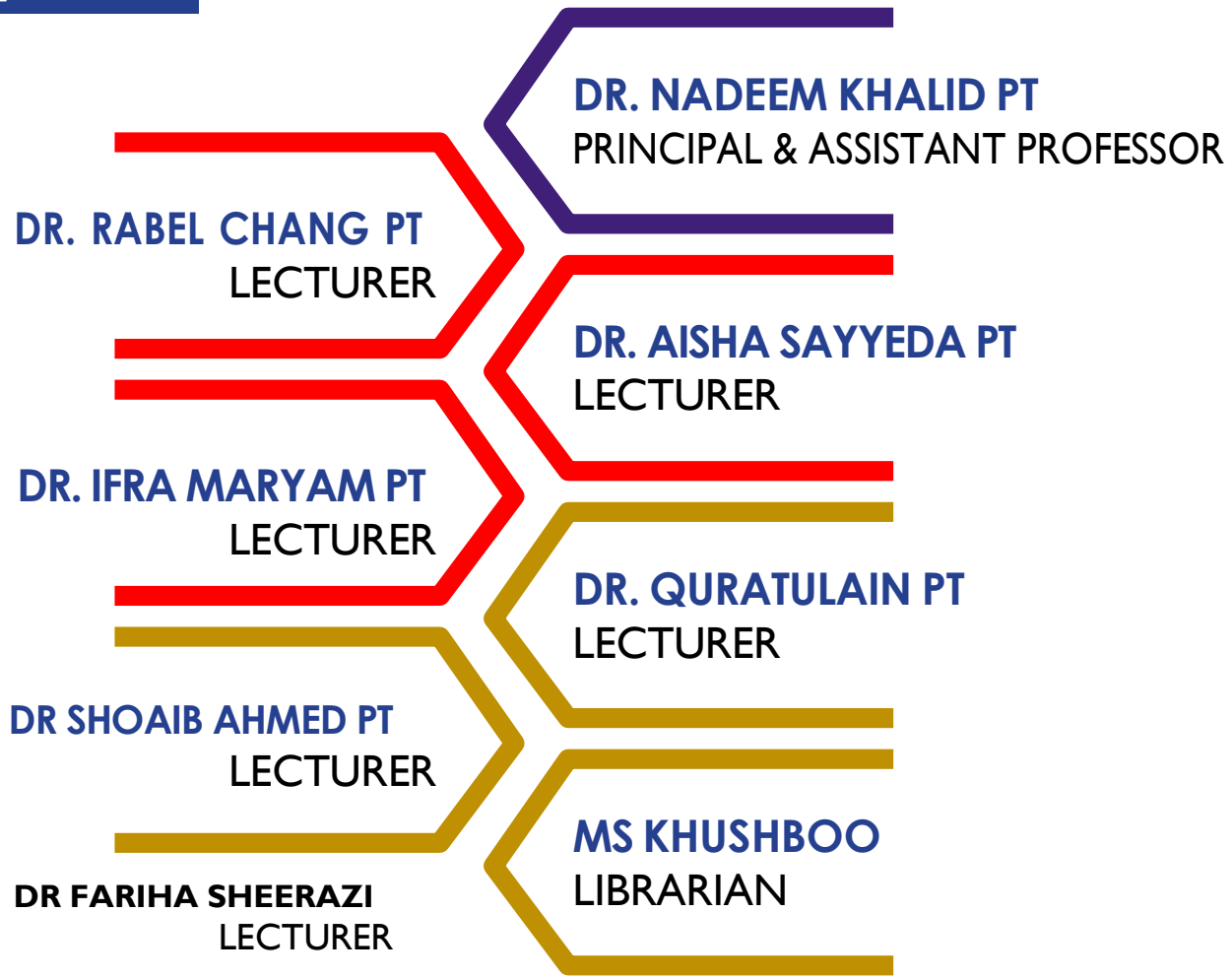
Above group of students of "DPT" after term "B" will repeat the failure subject ls) of semester I or II with junior batch.

IMPORTANT

In case of their failure In subject(s) of 1st / 2nd or both Semesters with junior batch (repeat examination) they shall cease to be eligible for further education in ICPT, TUMS.

Note: This system applies to a// the semesters in all the / five years

FACULTY


DR. NADEEM KHALID PT
PRINCIPAL & ASSISTANT PROFESSOR
DR. RABEL CHANG PT
LECTURER
DR. AISHA SAYYEDA PT
LECTURER
DR. IFRA MARYAM PT
LECTURER
DR. QURATULAIN PT
LECTURER
DR SHOAIB AHMED PT
LECTURER
MS KHUSHBOO
LIBRARIAN
DR FARIHA SHEERAZI
LECTURER

INAUGURATION CEREMONY OF DPT









THE FACULTY OF SCIENCE, TECHNOLOGY AND HUMANITIES

DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TEHNOLOGY

1. BS Computer Science (CS)
2. MS Information Technology (MS-IT)
3. PhD Information Technology (PhD-IT)

DEPARTMENT OF BIOCHEMISTRY

1. MS/MPhil Biochemistry

THE FACULTY OF SCIENCE, TECHNOLOGY AND HUMANITIES

DEPARTMENT OF COMPUTER SCIENCE

1. BS Computer Science (CS)
2. MS Information Technology (MS-IT)
3. PhD Information Technology (PhD-IT)

INTRODUCTION OF BS. COMPUTER SCIENCE (CS)

The BS Computer Science is a comprehensive four-year degree aligned with the HEC Undergraduate Education Policy V 1.1. It is designed to equip students with a solid foundation in core computing principles, alongside specialized knowledge in emerging fields such as software engineering, artificial intelligence, data science, cyber security, robotics, gaming design etc. The program emphasizes both theoretical understanding and practical skills, fostering innovative problem-solving, software and hardware development, and critical analysis of technological solutions.

Students will engage in hands-on projects, internships, and research activities that prepare them to address real-world challenges in various sectors including industry, healthcare, entertainment, and national security. The curriculum promotes ethical and professional responsibilities, teamwork, and effective communication, preparing graduates to become adaptable, lifelong learners and leaders in the rapidly evolving field of computing.

STANDARD NOMENCLATURE

For the sake of standardization, it was decided by NCRC that the undergraduate degree program (NQF Level-06) shall have the title of "BS Computer Science" with the option of specializations in Software Engineering, Artificial Intelligence, Data Science, Cyber Security, Information Technology, Computer Engineering, Computer Games Development, Multimedia and Animation, Robotics, Human Computer Interaction, Internet of Things (IoT), Network Infrastructure & Cloud Computing, Quantam Computing, Health Informatics. Further specializations as per given framework may be added by HEIs based on availability of faculty, infrastructure and resources. The area of specializations accordingly shall be reflected clearly on the transcript.

PROGRAM LEARNING OUTCOMES / GRADUATE ATTRIBUTES

Keeping in view the transformation from knowledge-based education philosophy to Outcome based education (OBE) system, the OBE model based on Seoul Accord has also been considered. Computing programs prepare students to attain educational objectives by ensuring that students Demonstrate achievement of the following outcomes (derived from Graduate Attributes define by Seoul Accord www.seoulaccord.org).

INTRODUCTION OF BS. COMPUTER SCIENCE (CS)

S. No	Program Learning Outcomes (PLOs)	Computing Professional Graduate
1	Academic Education	To prepare graduates as computing professionals
2	Knowledge for Solving Computing Problems	Apply knowledge of computing fundamentals, knowledge of a computing specialization, and mathematics, science, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
3	Problem Analysis	Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.
4	Design/ Development of Solutions	Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
5	Modern Tool Usage	Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
6	Individual and Team Work	Function effectively as an individual and as a member or leader in diverse teams and in multi-disciplinary settings.
7	Communication	Communicate effectively with the computing community and with society at large about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give ands understand clear instructions.
8	Computing Professionalism and Society	Understand and assess societal, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.
9	Ethics	Understand and commit to professional ethics, responsibilities, and norms of professional computing practice
10	Life-long Learning	Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional

INTRODUCTION OF BS. COMPUTER SCIENCE (CS)

ELIGIBILITY CRITERIA

Higher Secondary School Certificate/A-levels (involving minimum 12 years of schooling) or an IBCC equivalent qualification with at least 50% marks and having studied Mathematics is the basic eligibility requirement for admission in all BS Computing Programs.

- The students who have not studied Mathematics at intermediate level have to pass deficiency courses of Mathematics (06 credits) in first year including zero semester.

Aditionally, candidates may be required to pass an entry test conducted by the university or admission authority, along with fulfilling any other criteria set by the institution, such as interviews or aptitude assessments.

Scheme of Study of BS. Computer Sciences

4-YEAR DEGREE PROGRAM 130-Credit Hours (8-SEMESTER).

A STUDY PLAN
BS. Computer Sciences
DURATION: 4 YEARS

1st Year

SEMESTER-I			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Quantitative Reasoning-I*	3 (3+0)	General Education
2	Functional English*	3 (3+0)	General Education
3	Applications of Information and Communication Technologies*	3 (2+1)	General Education
4	Social Science**	2 (2+0)	General Education
5	Programming Fundamentals	4 (3+1)	Major
6	Calculus & Analytical Geometry – IDS I	3 (3+0)	IDS - Mandatory
Total Credits (18)			

SEMESTER-II			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Quantitative Reasoning-II*	3 (3+0)	General Education
2	Arts and Humanities**	2 (2+0)	General Education
3	Pakistan Studies*	2 (2+0)	General Education
4	Fehm-e-Quran – I (for Muslim Students)	1 (0+1)	General Education
5	Object Oriented Programming	4 (3+1)	Major
6	Digital Logic Design	4 (3+1)	Major
7	Linear Algebra IDS-II	3 (3+0)	IDS - Mandatory
Total Credits (19)			

Scheme of Study of BS. Computer Sciences

A STUDY PLAN
BS. Computer Sciences
DURATION: 4 YEARS

2nd Year

SEMESTER-III			
S. No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Expository Writing*	3 (3+0)	General Education
2	Natural Science**	3 (2+1)	General Education
3	Fehm-e-Quran – II (for Muslim Students)	1 (0+1)	General Education
4	Data Structures	4 (3+1)	Major
5	Database Systems	4 (3+1)	Major
6	Operating Systems	4 (3+1)	Major
Total Credits (19)			

SEMESTER-IV			
S. No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Civics and Community Engagement*	2 (2+0)	General Education
2	Ideology and Constitution of Pakistan*	2 (2+0)	General Education
3	Entrepreneurship*	2 (2+0)	General Education
4	Islamic Studies (Religious Education / Ethics for non-Muslim students) *	2 (2+0)	General Education
5	Software Engineering	3 (3+0)	Major
6	Computer Organization & Architecture (Computer Organization & Architecture)	3 (2+1)	Major
7	Design & Analysis of Algorithms	3 (3+0)	Major
Total Credits (17)			

3rd Year

SEMESTER-V			
S. No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Computer Networks	3	Major
2	Information Security	3	Major
3	Artificial Intelligence	3	Major
4	Theory of Automata	3 (3+0)	Major
5	IDS - III	3 (3+0)	IDS
6	IDS - IV	3 (3+0)	IDS
Total Credits (18)			

SEMESTER-VI			
S. No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Cloud Computing	3	Major
2	Elective-I***	3	Major
3	Elective-II***	3	Major
4	Elective-III***	3	Major
5	Elective-IV***	3	Major
Total Credits (15)			

A STUDY PLAN
BS. COMPUTER SCIENCE
DURATION: 4 YEARS

Final Year

SEMESTER-VII			
S. No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Elective-V***	3	Major
2	Elective-VI***	3	Major
3	Elective-VII***	3	Major
4	Elective-VIII***	3	Major
5	Professional Certification****	3	Certification
Total Credits (15)			

SEMESTER-VIII			
S. No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Final Year Project / Capstone Project ***** (As per protocols given)	6	Capstone Project
2	Field Experience/ Internship	3	Field Experience
Total Credits (9)			

Note: Internships of three (03) credit hours must be completed in accordance with HEC Undergraduate Education Policy V 1.1. This requirement cannot be substituted with additional coursework, capstone, research, or project work.

* The university may use HEC-designed model courses.

** The university/offering department may offer any course within the broader subject domain/cluster to meet the given credits.

*** The university/offering department shall offer any advanced course in BS Computer Science from the area of specializations as an elective based on available academic and physical resources.

**** BS Computer Science students are required to complete professional certification(s) (equivalent to 3 credit hours in total) over the period of four-year program as a mandatory condition for degree completion. A certification will be considered equivalent to 1 credit hour if it comprises at least 16 hours of study. The respective department will guide students in selecting relevant certifications, ensuring alignment with current market needs and the program's objectives. **Details given at Annex-C**

***** The Final Year Project may be split in 7th and 8th Semester. Likewise the Field Experience may be offered during summer/winter semester.

SPECIALIZATIONS IN BS COMPUTER SCIENCE PROGRAM

The Following Specialization under BS. Computer Science are offered;

1. Computer Science
2. Information Technology
3. Artificial Intelligence

LIST OF ELECTIVE COURSES

DOMAIN ELECTIVE COURSES		
Sr. No.	Course Name	Credit Hours
1	Telecommunication Systems	3 (2+1)
2	Routing & Switching	3(2+1)
3	Network Design and Management	3
4	Network Programming	3(2+1)
5	Computer Game Development	3(2+1)
6	Multimedia Technology	3(2+1)
7	3D Modeling & Animation	3(2+1)
8	Mobile Computing	3
9	Software Agents Technology	3(2+1)
10	E-Commerce Applications Development	3
11	Enterprise Application Development	3
12	Mobile Application Development	3(2+1)
13	Web Engineering	3(2+1)
14	Data Warehousing	3
15	Data Mining	3

DOMAIN ELECTIVE COURSES		
Sr. No.	Course Name	Credit Hours
16	Business Intelligence and Analytics	3
17	Distributed Database Systems	3
18	Enterprise Resource Planning Systems	3
19	Information Systems Auditing and Assurance	3
20	Business Process Management	3
21	Knowledge Management	3
22	Service-Oriented Architecture	3(2+1)
23	Bioinformatics	3
24	Biometric Systems	3
25	Mobile and Pervasive Computing	3
26	Computer Vision	3
27	System Analysis and Design	3
28	Automata Theory	3
29	Compiler Construction	3
30	Python Programming	3 (2+1)

DOMAIN ELECTIVE COURSES		
Sr. No.	Course Name	Credit Hours
31	Formal Methods	3
32	Software Requirement Engineering	3(2+1)
33	Software Design and Architecture	3(2+1)
34	Software Quality Engineering	3
35	Software CASE Tools & Applications	3
36	Software Construction	3
37	Software Engineering Economics	3
38	Design Patterns	3
39	Data Science	3 (2+1)
40	Network Science	3
41	Multimedia Systems and Design	3 (2+1)
42	Human Computer Interaction	3
43	Cloud Computing	3 (2+1)
44	Software Project Management	3 (2+1)
		(21/135)

Scheme of Study of MS Information Technology (MS-IT)

This program comprises of 30 Credit Hours.

Program Introduction

The MS Information Technology (MS-IT) programme at the University of Modern Sciences (UMS), Tando Muhammad Khan, is designed to provide advanced theoretical and applied knowledge in Information Technology. The programme develops research competencies, analytical skills, and expertise in modern computing paradigms including Artificial Intelligence, Cyber Security, Cloud Computing, Data Science, and the Internet of Things. It is offered by the Department of Information Technology, Faculty of Science and Technology, and complies fully with the HEC Graduate Education Policy.

Program Duration

Category	Duration
Minimum Duration	2 Years
Maximum Duration	4 Years

Total Credit Hours

Component	Credit Hours
Core Courses	12
Elective Courses	12
MS Thesis	6
Total	30 Credit Hours

Semester Wise Course Scheme

Semester I

Course Code	Course Title	Credit Hours
MS-IT-501	Advanced Database Management Systems	3
MS-IT-502	Advanced Operating Systems	3
MS-IT-503	Research Methodology	3

Total Credits: 9

Semester II

Course Code	Course Title	Credit Hours
MS-IT-504	Advanced Computer Networks	3
MS-IT-505	Elective-I	3
MS-IT-506	Elective-II	3

Total Credits: 9

Semester III

Course Code	Course Title	Credit Hours
MS-IT-507	Elective-III	3
MS-IT-508	Elective-IV	3
MS-IT-509	MS Thesis Research-I	3

Total Credits: 9

Semester IV

Course Code	Course Title	Credit Hours
MS-IT-510	MS Thesis Research-II	3

Total Credits: 3

List of Elective Courses

Course Code	Course Title	Course Code	Course Title
MS-IT-601	Machine Learning	MS-IT-613	Software Architecture
MS-IT-602	Deep Learning	MS-IT-614	High Performance Computing
MS-IT-603	Artificial Intelligence	MS-IT-615	Blockchain Technology
MS-IT-604	Data Mining	MS-IT-616	Information Retrieval
MS-IT-605	Big Data Analytics	MS-IT-617	Digital Image Processing
MS-IT-606	Cloud Computing	MS-IT-618	Parallel Computing
MS-IT-607	Internet of Things	MS-IT-619	Mobile Computing
MS-IT-608	Cyber Security	MS-IT-620	Data Science
MS-IT-609	Natural Language Processing	MS-IT-621	Quantum Computing
MS-IT-610	Computer Vision	MS-IT-622	Edge Computing
MS-IT-611	Distributed Systems	MS-IT-623	Intelligent Systems
MS-IT-612	Advanced Database Systems		

Admission Requirements

As per HEC Graduate Education Policy:

1. BS Computer Science / Software Engineering / IT / equivalent (16 years education) from an HEC recognized university.
2. Minimum CGPA 2.5 / 4.0 or First Division.
3. Passing HEC approved admission test (GAT-General) or university admission test.
4. Interview by Departmental Admission Committee.

Thesis Requirements

Students opting for MS with Thesis must:

- Complete 24 credit hours coursework
- Conduct original research
- Submit MS thesis
- Pass viva voce examination

Program Learning Outcomes (PLOs)

Graduates of MS-IT will be able to:

1. Apply advanced computing knowledge to solve complex problems.
2. Conduct research in modern computing technologies.
3. Develop innovative software and intelligent systems.
4. Contribute to academia, research organizations, and industry.

Scheme of Study of PhD Information Technology (PhD-IT)

This program comprises of 48 Credit Hours.

Introduction

The Doctor of Philosophy in Information Technology (PhD-IT) program aims to develop highly qualified researchers capable of contributing to advanced research and innovation in modern information technologies.

The program emphasizes advanced coursework, independent research, innovation, and scholarly publications in emerging IT domains such as Artificial Intelligence, Cloud Computing, Data Science, Cyber Security, and Distributed Systems.

The curriculum follows the HEC Pakistan PhD Policy.

Program Objectives

The objectives of the PhD-IT program are:

1. To produce high-level researchers and scholars in Information Technology.
2. To promote advanced research in emerging IT technologies.
3. To contribute to innovation, digital transformation, and technological development.
4. To strengthen academic and industrial research collaboration.

Program Duration

Category	Duration
Minimum Duration	3 Years
Maximum Duration	8 Years

Total Credit Hours

Component	Credit Hours
Coursework	18
PhD Dissertation	30
Total	48 Credit Hours

Semester Wise Course Scheme

Semester I

Course Code	Course Title	Credit Hours
PhD-IT-801	Advanced Information Systems	3
PhD-IT-802	Advanced Data Communication & Networks	3
PhD-IT-803	Research Methodology in Information Technology	3

Total Credits: 9

Semester II

Course Code	Course Title	Credit Hours
PhD-IT-804	Advanced Database Systems	3
PhD-IT-805	Distributed & Cloud Computing	3
PhD-IT-806	Elective-I	3

Total Credits: 9

Comprehensive Examination

After completion of 18 credit hours, students must pass the PhD Comprehensive Examination conducted by the department.
The examination evaluates:

- Advanced knowledge of Information Technology
- Research capability
- Analytical and problem-solving skills

Students failing the examination may be allowed one additional attempt.

Research Phase

Semester III – VI

Course Code	Course Title	Credit Hours
PhD-IT-801	PhD Thesis Research-I	6
PhD-IT-802	PhD Thesis Research-II	6
PhD-IT-803	PhD Thesis Research-III	6
PhD-IT-804	PhD Thesis Research-IV	6
PhD-IT-805	PhD Thesis Research-V	6

Total Research Credits: 30

List of PhD-IT Elective Courses

Course Code	Course Title	Course Code	Course Title
PhD-IT-806	Artificial Intelligence	PhD-IT-811	Cloud Computing Architecture
PhD-IT-808	Machine Learning	PhD-IT-812	Data Science
PhD-IT-808	Big Data Analytics	PhD-IT-813	Blockchain Technologies
PhD-IT-809	Cyber Security	PhD-IT-814	Digital Forensics
PhD-IT-810	Internet of Things	PhD-IT-815	Intelligent Information Systems

Admission Requirements

Applicants must fulfill the following criteria:

1. MS / MPhil in Information Technology, Computer Science, Software Engineering or related field from an HEC recognized university.
2. Minimum CGPA 3.0 / 4.0 or First Division.
3. Passing HEC approved admission test (GAT-Subject / University Test).
4. Interview conducted by the Departmental Admission Committee.

Publication Requirement

As per HEC PhD Policy, a PhD scholar must publish:

- At least one research article in an HEC W or X category journal before thesis defense.

Thesis Evaluation

The PhD thesis will be evaluated through the following process:

1. Approval of research proposal by BASR.
2. Evaluation by two international external reviewers.
3. Open public defense of the dissertation.

Program Learning Outcomes (PLOs)

Graduates of PhD-IT will be able to:

1. Conduct independent and original research in Information Technology.
2. Develop innovative IT solutions for complex technological problems.
3. Publish research in international journals and conferences.
4. Contribute to academic, industrial, and national technological development.
5. Lead advanced research projects in emerging IT domains.

FACULTY

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MS. SANOBAR BALOCH
RESEARCH ASSOCIATE

MR. Muhammad Ibtasam
RESEARCH ASSOCIATE

DR. Sajeela
ASSISTANT PROFESSOR

MS. Roha Memon
RESEARCH ASSOCIATE

MS. SUMAYA IRUM
RESEARCH ASSOCIATE

THE DEPARTMENT OF BIOCHEMISTRY

PROGRAMS

1. MS/MPhil Biochemistry

INTRODUCTION OF BS BIO-CHEMISTRY

Biochemistry can be simply defined as the study of life at the molecular level. Every process occurring within the living organism, from metabolism to muscle, contraction to vision and even including the thought processes, happens as a result of a series of chemical reactions. The field of biochemistry accommodates people with a wide spectrum of interests, from those with a strong biological orientation to those who view themselves more as chemists. Biochemistry is a rapidly growing, and exciting field of study. Genetic engineering, biotechnology. and immunology are the prominent areas in which biochemists are playing a major role.

The Department of Bio-Chemistry at TUMS offers a four-year BS Biochemistry Degree program, which consists of a combination of requirements and electives that ensure a strong foundation in the chemical and biological sciences while providing the flexibility to tailor the curriculum to satisfy specific interests or career goals. The offered courses provide students with extensive exposure to basic Biochemistry, as well as Cell Biology and Molecular Biology.

The BS Biochemistry program is interesting to the students who plan careers in research, teaching, or in health sciences professions that are medicine, pharmacy, and dentistry. Developments and discoveries in the field of biochemistry have an enormous impact on the society. The course of study in biochemistry reflects the fact that the field lies at the interface of biology and chemistry. Extensive background in the basic sciences and biology is the foundation for the program.

Majorly biochemistry prepares graduates for challenging and rewarding career opportunities. The biochemistry industry offers excellent job prospects for graduate trained in the molecular life sciences, with opportunities across the spectrum of all company activities.

Scheme of Study of BS BIOCHEMISTRY

This program comprises of 138 Credit Hours.

A STUDY PLAN
BS BIOCHEMISTRY
DURATION: 4 YEARS

1st Professional BS. Biochemistry

First Semester		
S.No	**Subject**	**Cr. Hr.**
1	English-I	3+0
2	Pakistan Studies	2+0
3	Mathematics I	3+0
4	Social Science	3+0
5	Organic Chemistry	2+1
6	Introductory Biochemistry	2+1
	Total Cr. Hr.	17

Second Semester		
Course No.	**Subject**	**Cr. Hr.**
	English-II	3+0
	Islamic studies/Ethics	2+0
	Inorganic Chemistry	2+1
	Mathematics-II/Biostatistics	3+0
	Microbiology	2+1
	Carbohydrates & Lipids	2+1
FQ - 323	Fehm-e-Quran – I	0+1
	Total Cr. Hr.	19

2nd Professional BS. Biochemistry.

Third Semester		
Course No.	Subject	Cr. Hr.
	English-III	3+0
	Introduction to Computers	2+1
	Physical Chemistry	2+0
	Genetics	3+1
	Proteins & Nucleic Acids	2+1
	Cell Biology	2+1
FQ – 423	Fehm-e-Quran – II	0+1
	Total Cr. Hr.	19

Fourth Semester		
S.No	Subject	Cr. Hr.
1	English IV/University optional	3+0
2	Marketing & Management	3+0
3	Analytical chemistry	2+1
4	Human Physiology	2+1
5	Enzymology	2+1
6	Biosafety & Bioethics	2+1
	Total Cr. Hr.	18

A STUDY PLAN
BS BIOCHEMISTRY
DURATION: 4 YEARS

3rd Professional BS. Biochemistry.

Fifth Semester		
S.No	Subject	Cr. Hr.
1	Metabolism I	3+0
2	Molecular Biology	3+0
3	Nutritional Biochemistry	2+1
4	Immunology	3+0
5	Plant Biochemistry	2+1
6	Environmental Biochemistry	2+1
	Total Cr. Hr.	18

Sixth Semester		
S.No	Subject	Cr. Hr.
1	Metabolism II	3+0
2	Biochemical Techniques	1+2
3	Biotechnology	3+0
4	Bioinformatics	2+1
5	Bioenergetics	3+0
6	Industrial Biochemistry	2+1
	Total Cr. Hr.	18

4th Professional BS. Biochemistry.

Seventh Semester		
S.No	Subject	Cr. Hr.
1	Research Planning & Scientific Writing	3+0
2	Biomembranes & Cell Signaling	3+0
3	Clinical Biochemistry	2+1
4	Elective-I	3+0
5	Elective-II	3+0
	Total Cr. Hr.	15

Eighth Semester		
S.No	Subject	Cr. Hr.
1	Current in Trends Biochemistry	3+0
2	Research Project/Internship	0+3
3	Methods in Molecular Biology	1+2
4	Elective-III	3+0
5	Elective-IV	3+0
	Total Cr. Hr.	15

LIST OF ELECTIVE COURSES

- Cancer Biology
- Genomics
- Proteomics
- General Virology
- Cell and tissue culture
- Pharmacology
- Antimicrobials and Chemotherapeutics
- Functional Genomics
- Structural Biology
- Drug Development
- Fermentation Biotechnology
- Neurochemistry
- Toxicology
- Biodiversity
- Water and Mineral Metabolism
- Research Projects
- Any other course(s) recommended by Board of Studies

STANDARDIZED FORMAT FOR BS (4-YEAR) IN BIOCHEMISTRY

STRUCTURE			
Sr. No.	Categories	No. of courses	Credit Hours
1.	Compulsory courses	9	25
2.	General courses (to be chosen from other Departments)	9	26
3.	Discipline specific foundation courses	10	30
4.	Major courses (including Research Project/ Internship)	15	45
5.	Electives within the major	4	12
	Total	47	138

- Total numbers of credit hours 138
- Duration 4 years
- Semester duration 16-18 weeks
- Semesters 8
- Course load per semester 15-18 Credit hours
- Number of courses per semester 5-6

MS/MPHIL IN BIO-CHEMISTRY

Eligibility Criteria

- BS/MS.C (16 Years of education in Biochemistry, Nutrition & food technology and Medical Laboratory Technology

DURATION

- 2 years
- 4 semesters : 30 Cr Hours

Scheme of Study of MS/MPHIL-BIOCHEMISTRY

This program comprises of 30 Credit Hours.

A STUDY PLAN
MS/MPHIL-BIOCHEMISTRY
DURATION: 2 YEARS

Semester	S.No	Subjects	Credits
First	1	Advances in Clinical Biochemistry (Compulsory)	3
	2	Advances in Molecular Biology (Compulsory)	3
	3	DNA Techniques and Clinical Applications (Compulsory)	3
	4	Community Nutrition (Optional)	3
		Total	**12**
Second	5	Research Methodology (Compulsory)	3
	6	Advanced Biostatistics (Compulsory)	3
	7	Structural Bioinformatics (Optional – II)	3
	8	Molecular Mechanism of Diseases (Optional – III)	3
		Total	12
Third-Fourth	9	Master Thesis	6
		Total	**30**

LIST OF MS/MPHIL BIOCHEMISTRY COURSES

1. Advances in Molecular Genetics
2. Advances in Biochemistry
3. Advances in Clinical Biochemistry
4. Advances in Molecular Biology
5. Advances in Endocrinology
6. Advances in Biotechnology
7. Advanced Biostatistics
8. Advanced Bioinformatics
9. Recent Trends in Immunology
11. Advanced Fermentation Biotechnology
12. Community Nutrition
13. Protein Structure, Function and Engineering
14. Enzymes - Mechanism & Kinetics
15. Advances in Cell Biology
16. DNA Techniques and Clinical Applications
17. Good Laboratory Practices and Quality Control
18. Signal Transduction
19. Biochemistry of Metabolic Disorders
20. Biochemistry of Natural Products
21. Recombinant DNA Technology
23. Research Methodology
25. Advanced Biochemical Techniques
27. Genomics, Proteomics and Metabolomics
29. Gene Expression and Regulation
30. Food Biochemistry
31. Renewable bioenergy Resources
32. Molecular Mechanism of Diseases
33. Molecular Evolution
34. Seminar
36. Special Problem/ Specific assignment
37. Drug Designing and Metabolism
38. Forensic Serology and DNA Analysis
40. Application of Nanomaterials in Biosciences
41. Stem Cell and Therapeutics
42. Neuroscience
43. Structural Bioinformatics
44. Plant Genomics
45. Biochemistry of Drugs and their Resistance

Note: University may opt any other course(s) depending upon the facilities and expertise of faculty available subjected to the approval of concerned academic forum.

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DR. MARVI SHAIKH
SENIOR LECTURER

MR. GHAZALI QURESHI
RESEARCH ASSOCIATE

MS. BISMA ISMAIL
RESEARCH ASSOCIATE

THE FACULTY OF BUSINESS ADMINISTRATION

PROGRAMS

1. BS Business Administration (BBA)
2. MS/MPhil Business Administration

INTRODUCTION OF BACHELOR OF BUSINESS ADMINISTRATION (BBA)

The 4 years Bachelor of Business Administration (BBA) program serves the need of those who are looking for a career in management profession or towards higher education in business administration. Being a program with challenging curricula and contents, it is appropriate for those who have excellent academic record and high potential for success.

The BBA degree promises the graduates higher level employability at the entry level of management profession by helping them excel in professional and personal development. The program offers a rich blend of general education, general management skills like communication, decision making, leadership, teamwork and quantitative methods. It also aims lo Sensitize the graduates about their social and environmental responsibility.

LEARNING OUTCOMES

BBA graduates are expected to communicate effectively and professionally and to demonstrate the ability to create written and oral statements for diverse audience across the world. Demonstrate the ability to identify and evaluate relevant information for decision making and make use of thinking skills to assess the information and solve problems in uncertain environments. Understand the importance of team work and group dynamics in achieving organizational goals and demonstrated ability to work effectively in teams. understand various leadership styles and demonstrated ability in exercising these styles according to the requirement of the situation. Demonstrate effectively practicing of overall functional business knowledge and ability to identify and interpret essential business concepts, principles and skills. identify core organizational values and understand the issues of ethical and social diversity and demonstrate the ability to propose feasible solutions to these issues.

Understand computer-based information systems and able to use computing tools and infrastructures to apply and interpret functional business knowledge,

Eligibility

- At least 50% marks in HSSC or an equivalent qualification
- Should have studied for HSSC or an equivalent qualification, for at least two years

Scheme of Study of BACHELOR OF BUSINESS ADMINISTRATION (BBA)

This program comprises of 130 Credit Hours.

A STUDY PLAN
BACHELOR OF BUSINESS ADMINISTRATION (BBA)
DURATION: 4 YEARS

1st Professional BBA

SEMESTER I			
S. No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Quantitative Reasoning-I	3+0	General Education
2	Functional English	3+0	General Education
3	Applications of Information and Communication Technologies	2+1	General Education
4	Principles of Management	3+0	Major
5	Core Course-I	3+0	Core Course
6	Interdisciplinary Course-I	3+0	Interdisciplinary
Total Credits (18)			

SEMESTER II			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Quantitative Reasoning-II	3+0	General Education
2	Social Science	2+0	General Education
3	Expository Writing	3+0	General Education
4	Natural Science	2+1	General Education
5	Fehm-e-Quran – I (for Muslim Students)	0+1	General Education
6	Organizational Behaviour	3+0	Major
7	Principles of Accounting	3+0	Major
Total Credits (18)			

2nd Professional BBA.

SEMESTER III			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Arts and Humanities	2+0	General Education
2	Islamic Studies (Religious Education / Ethics for Non-Muslim students)	2+0	General Education
3	Pakistan Studies	2+0	General Education
4	Fehm-e-Quran – II (for Muslim Students)	0+1	General Education
5	Financial Accounting	3+0	Major
6	Core Course-II	3+0	Core Course-II
7	Interdisciplinary Course-II	3+0	Interdisciplinary
Total Credits (16)			

SEMESTER IV			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Civics and Community Engagement	2+0	General Education
2	Ideology and Constitution of Pakistan	2+0	General Education
3	Entrepreneurship	2+0	General Education
4	Business Finance	3+0	Major
5	Core Course-III	3+0	Core Course - III
6	Core Course -IV	3+0	Course Course - IV
7	Principles of Marketing	3+0	Major
Total Credits (18)			

A STUDY PLAN
BACHELOR OF BUSINESS ADMINISTRATION (BBA)
DURATION: 4 YEARS

3rd Professional BBA.

SEMESTER V			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	Marketing Management	3+0	Major
2	Financial Management	3+0	Major
3	Human Resource Management	3+0	Major
4	Interdisciplinary Course-III	3+0	Interdisciplinary
5	HEI Decided Core Course-V	3+0	To be decided by HEI
Total Credits (15)			

SEMESTER VI			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1	HEI Decided Core Course-VI	3+0	To be decided by HEI
2	HEI Decided Core Course-VII	3+0	To be decided by HEI
3	Interdisciplinary Course-IV	3+0	Interdisciplinary
4	Elective-I	3+0	Specialization
5	Elective-II	3+0	Specialization
Total Credits (15)			

Note: *Students shall be required to complete three credit hours of field experience or internship any time after completion of the 5th semester.*

4th Professional BBA.

SEMESTER VII			
Course Code.	**COURSE**	**CREDIT HOURS**	**CATEGORY**
	Business Research Methods	3+0	Major
	AI in Business	3+0	Major
	HEI Decided Core Course-VIII (Business & Management Relevant Certification) *	3+0	To be decided by HEI
	Elective-III	3+0	Specialization
	Elective-IV	3+0	Specialization
Total Credits (15)			

SEMESTER VIII			
S.No	**COURSE**	**CREDIT HOURS**	**CATEGORY**
1 2	HEI Decided Core Course-IX	3+0	To be decided by HEI
3	Elective-V	3+0	Specialization
4	Elective-VI	3+0	Specialization
5	Capstone Project	3+0	Capstone Project
6	Internship/Field Experience	3	Field Experience
Total Credits (15)			

** BBA students are required to complete any relevant certification (equivalent to 3 credit hours in total) over the period of the four-year degree program as a mandatory condition for degree completion. A certification will be considered equivalent to 1 credit hour if it involves 16 hours of study. The respective department will guide students in selecting relevant certifications, ensuring alignment with current market needs and the program's objectives.*

Elective Courses for BBA 4-Year s (Hons) Program (133 Credit Hours)

Finance Specialization

BBA (H) P-III		
Course No.	Title of Course	Cr. Hr.
BUS506	Investment & Portfolio Management	03
BUS506	Strategic Finance	03
BUS512	International Financial Management	03
BUS512	Strategic Finance	03
BUS512	Treasury & Funds Management	03

BBA (H) P-IV		
Course No.	Title of Course	Cr. Hr.
BUS605	Risk Management	03
BUS605	Financial Statement Analysis	03
BUS609	Corporate Finance	03
BUS609	Seminar in Finance	03
BUS609	Islamic Banking & Finance	03

HRM Specialization

BBA (H) P-III		
Course No.	Title of Course	Cr. Hr.
BUS506	Recruitment & Selection	03
BUS506	Personal Management	03
BUS512	Managerial Skills	03
BUS512	Labor Laws in Pakistan	03
BUS512	Training Intervention in Job Skills	03

BBA (H) P-IV		
Course No.	Title of Course	Cr. Hr.
BUS605	Training & Development	03
BUS605	Leadership & Team Management	03
BUS609	Compensation Management	03
BUS609	Micro Organizational Dynamics	03
BUS609	Human Resources Development	03

Marketing Specialization

BBA (H) P-III		
Course No.	Title of Course	Cr. Hr.
BUS506	Personal Selling	03
BUS506	Export Marketing	03
BUS506	Services Marketing	03
BUS506	Internet Marketing	03
BUS512	Seminar in Marketing	03
BUS512	Integrated Marketing Communication	03
BUS512	Retail Management	03
BUS512	Product Management	03

BBA (H) P-IV		
Course No.	Title of Course	Cr. Hr.
BUS605	Sales Management	03
BUS605	Marketing Research	03
BUS605	Consumer Behavior	03
BUS605	Inventory Management	03
BUS609	Industrial Marketing	03
BUS609	Marketing of IT Products	03
BUS609	International Marketing	03
BUS609	Brand Management	03

Management Specialization

BBA (H) P-III		
Course No.	Title of Course	Cr. Hr.
BUS506	Organizational Development	03
BUS506	Crises Management	03
BUS506	Comparative Management	03
BUS512	Education Management	03
BUS512	Environment Management	03
BUS512	Logistic Management	03

BBA (H) P-IV		
Course No.	Title of Course	Cr. Hr.
BUS605	Change Management	03
BUS605	Small & Medium Enterprises Management	03
BUS605	Knowledge Management	03
BUS609	Supply Chain Management	03
BUS609	NGOs Management	03
BUS609	Time Management	03

INTRODUCTION OF MS/M.PHIL IN BUSINESS ADMINISTRATION

Business Administration is also considered a branch management sciences. Business Administration refers to the study of business strategies to achieve organizational goals regarding business studies and socio-economic development. The Department of Business Administration has lots of scope and demand in Pakistan as well as abroad countries. The University of Modern Sciences is offering the Bachelor of Business Administration (BBA) at the Department Business Administration. But now, The University of Modern Sciences Tando-Muhammad Khan, Sindh, Pakistan is offering Master of Science (MS) / Master of Philosophy (M.Phil) Program at the Department of Business Administration

MS/MPHIL IN BUSINESS ADMINISTRATION

Degree Requirements

The admission in MS/MPhil Programs would be based on the following:

Sixteen years of education in relevant field with high second division or equivalent from HEC recognized Institutes/Universities in Pakistan or foreign Degree Holders.

OR

- Four years overseas Bachelor's degree or equivalent recognized by HEC

In addition

- Minimum 50% marks in overall academic career in annual examination system
- Minimum CGPA 2.4 on a scale of 4 CGPA in semester system (CGPA will be considered, if both CGPA & Percentage are mentioned in the Transcript)
- Candidates must score minimum 50% marks in General GRE / university entry test
- Success in panel interview conducted at Department of Business Administration

Scheme of Study of MS in Business Administration

This program comprises of 35 Credit Hours.

(Aligned with HEC Revised Curriculum for Business & Management, 2025 — NQF Level 7)

Program Overview

Parameter	Detail
Degree Title	Master of Science (MS) in Business Administration — specific nomenclature: "MS in (Specialization)", e.g. MS in Finance, MS in Marketing, per the specialization opted.
NQF Level	Level 7
Total Credit Hours	35 Credit Hours (32–36 CH range permitted under HEC/NQF)
Program Duration	Minimum: 2.0 Years (4 regular semesters) | Maximum: 3 Years (extendable to 4 years with statutory approval)
Delivery Mode	Coursework (Semesters I–II) + Electives (Semesters I–II) + Thesis (Semesters III–IV)
Award of Specialization	Noted on transcript only if all 5 electives are taken from a single cluster; not mentioned on the degree/certificate.

Credit-Hour Distribution

Component	Credit Hours	Remarks
General Education (GE) – Fehm-e-Quran	2	2 courses × 1 CH (0+1)
Mandatory Core Courses	12	4 courses × 3 CH
Domain-Specific / Specialization Electives	15	5 courses × 3 CH (from one or more clusters)
Thesis	6	2 semesters × 3 CH (Semesters III–IV)
TOTAL (C H)	35	

Course Coding Scheme

Course codes follow a systematic alpha-numeric convention adopted for the MS-BA program, distinguishing it from the department's existing M.Phil (595–601) and Ph.D. (602–607) numeric-only codes:

Code Pattern	Category	Description
GEN-5xx	General Education	Fehm-e-Quran / equivalent GE course
MSBA-5xx	Mandatory Core	Core courses common to all MS-BA students
MSBA-<CCC>-6xx	Specialization Elective	<CCC> = 3-letter cluster code (e.g., FIN, MKT, HRM — see §6)
MSBA-7xx	Thesis / Research	Thesis (Semesters III and IV)

Semester-wise Scheme of Studies

Semester I

S.No.	Course Code	Course Title	Credit Hours	Category
1	MSBA-501	Applied Research Design and Methods	3(3+0)	Core I
2	MSBA-502	Contemporary Business Strategy in the Digital Era	3(3+0)	Core II
3	MSBA-<CCC>-601	Elective – I	3(3+0)	Elective
4	MSBA-<CCC>-602	Elective – II	3(3+0)	Elective
5	GEN-501	Fehm-e-Quran I	1(0+1)	GE

Total Credit Hours: 13

Semester II

S.No.	Course Code	Course Title	Credit Hours	Category
1	MSBA-503	Advanced Quantitative Tools for Decision Making	3(3+0)	Core III
2	MSBA-504	Advanced Research Methods & Techniques	3(3+0)	Core IV
3	MSBA-<CCC>-603	Elective – III	3(3+0)	Elective
4	MSBA-<CCC>-604	Elective – IV	3(3+0)	Elective
5	MSBA-<CCC>-605	Elective – V	3(3+0)	Elective
6	GEN-502	Fehm-e-Quran II	1(0+1)	GE

Total Credit Hours: 16

Semester III and Semester IV

S.No.	Course Code	Course Title	Credit Hours	Category
1	MSBA-701	Thesis (Research Proposal & Data Collection, Analysis, Write-up & Defense)	6(6+0)	Research

Total Credit Hours: 6

Note: <CCC> denotes the 3-letter specialization-cluster code chosen by the student (§6). All five electives may be taken from one cluster (to earn transcript specialization) or across clusters (general MS-BA, no specialization noted).

Mandatory Core Courses — Codes & Outlines

Code	Course Title	CH	Sem.	Brief Outline
MSBA-501	Applied Research Design and Methods	3(3+0)	I	Foundations of business research: research philosophy, problem formulation, research design, and quantitative/qualitative method selection for management research.
MSBA-502	Contemporary Business Strategy in the Digital Era	3(3+0)	I	Strategic management frameworks re-examined in light of digital disruption, platform competition and technology-driven business models.
MSBA-503	Advanced Quantitative Tools for Decision Making	3(3+0)	II	Multivariate statistical and operations-research techniques (regression, MANOVA, factor analysis, optimization models) for managerial decision-making.
MSBA-504	Advanced Research Methods & Techniques	3(3+0)	II	Advanced qualitative and quantitative research techniques, data collection design, and proposal/report writing for the MS thesis.

General Education & Thesis — Codes & Outlines

Code	Course Title	CH	Sem.	Brief Outline
GEN-501	Fehm-e-Quran I	1(0+1)	I	HEC-mandated Quranic understanding course (Part I); non-Muslim students take an equivalent approved General Education course.
GEN-502	Fehm-e-Quran II	1(0+1)	II	HEC-mandated Quranic understanding course (Part II); non-Muslim students take an equivalent approved General Education course.
MSBA-701	Thesis (Research Proposal & Data Collection, Analysis, Write-up & Defense)	6(6+0)	III-IV	Development of the approved research proposal, literature review and instrument design/data collection, Data analysis, thesis write-up, under faculty supervision. and final defense before the evaluation committee.

Specialization Clusters — Elective Course Codes & Outlines

Students select any FIVE (5) courses — 15 Credit Hours — either from a single cluster below (to have the specialization noted on the transcript) or across multiple clusters (no specialization noted). Each pool is not exhaustive; the Department may add courses subject to statutory approval.

Business Analytics (Cluster Code: BAN)

Course Code	Course Title	Course Code	Course Title
MSBA-BAN-601	Applications of Artificial Intelligence in Business Administration	MSBA-BAN-607	Data Mining for Business Intelligence
MSBA-BAN-602	Business Analytics and Decision Science	MSBA-BAN-608	Financial Analytics
MSBA-BAN-603	Big Data Analytics	MSBA-BAN-609	Machine Learning for Business Decision Making
MSBA-BAN-604	Data Governance and Ethics	MSBA-BAN-610	Marketing Analytics
MSBA-BAN-605	Data Analysis and Visualization	MSBA-BAN-611	Predictive Analytics and Forecasting
MSBA-BAN-606	Database Management Systems	MSBA-BAN-612	Statistical Methods for Business

Digital Business and E-Commerce (Cluster Code: DBE)

Course Code	Course Title	Course Code	Course Title
MSBA-DBE-601	Artificial Intelligence in Digital Marketing	MSBA-DBE-610	E-Commerce Strategies and Technologies
MSBA-DBE-602	Blockchain for E-Commerce	MSBA-DBE-611	Ethics, Sustainability, and Digital Business
MSBA-DBE-603	Business Model Innovation in the Digital Age	MSBA-DBE-612	Innovation and Entrepreneurship in Digital Markets
MSBA-DBE-604	Customer Relationship Management (CRM) Systems	MSBA-DBE-613	Online Consumer Behavior and Engagement
MSBA-DBE-605	Cybersecurity and Legal Issues in E-Business	MSBA-DBE-614	Payment Systems and Fintech in E-Commerce
MSBA-DBE-606	Data-Driven Decision Making for E-Business	MSBA-DBE-615	Search Engine Marketing (SEM) and Optimization (SEO)
MSBA-DBE-607	Digital Branding and Online Reputation Management	MSBA-DBE-616	Social Media Marketing and Content Strategy
MSBA-DBE-608	Digital Business Models	MSBA-DBE-617	Supply Chain and Fulfillment in Digital Commerce
MSBA-DBE-609	Digital Marketing and Performance Analytics	MSBA-DBE-618	Web and Mobile App Development for Business

Entrepreneurship and Innovation (Cluster Code: ENT)

Course Code	Course Title	Course Code	Course Title
MSBA-ENT-601	Business Model Innovation	MSBA-ENT-607	Legal and Regulatory Aspects of Startups
MSBA-ENT-602	Design Thinking and Prototyping	MSBA-ENT-608	New Venture Creation
MSBA-ENT-603	Digital Entrepreneurship	MSBA-ENT-609	SMEs Management
MSBA-ENT-604	Entrepreneurial Thinking and Mindset	MSBA-ENT-610	Social Entrepreneurship
MSBA-ENT-605	Family Business Management	MSBA-ENT-611	Startup Financing and Venture Capital
MSBA-ENT-606	Innovation and Change Management	MSBA-ENT-612	Technopreneurship

Finance (Cluster Code: FIN)

Course Code	Course Title	Course Code	Course Title
MSBA-FIN-601	Algorithmic and Quantitative Trading	MSBA-FIN-610	Financial Statement Analysis
MSBA-FIN-602	Analysis of Financial Statements	MSBA-FIN-611	FinTech
MSBA-FIN-603	Blockchain for Finance	MSBA-FIN-612	International Financial Management
MSBA-FIN-604	Corporate Finance	MSBA-FIN-613	Investment Analysis and Portfolio Management
MSBA-FIN-605	Financial Derivatives	MSBA-FIN-614	Project Appraisal
MSBA-FIN-606	Financial Institutions Management	MSBA-FIN-615	Risk Management and Insurance
MSBA-FIN-607	Financial Markets and Institutions	MSBA-FIN-616	Sustainable Finance
MSBA-FIN-608	Financial Modeling for Decision Making	MSBA-FIN-617	Technofinance
MSBA-FIN-609	Financial Risk Management	MSBA-FIN-618	Treasury & Fund Management

Human Resource Management (Cluster Code: HRM)

Course Code	Course Title	Course Code	Course Title
MSBA-HRM-601	AI in HRM	MSBA-HRM-612	Leadership and Team Dynamics
MSBA-HRM-602	Compensation and Benefits Management	MSBA-HRM-613	Negotiation and Conflict Management
MSBA-HRM-603	Cross-Cultural and International HRM	MSBA-HRM-614	Organizational Development and Change Management
MSBA-HRM-604	Data-driven Decision-making in HR	MSBA-HRM-615	People Analytics and Workforce Intelligence
MSBA-HRM-605	Digital HR Transformation	MSBA-HRM-616	Performance Management Systems
MSBA-HRM-606	Employee Engagement	MSBA-HRM-617	Strategic Human Resource Management
MSBA-HRM-607	Employee Relations and Labor Law	MSBA-HRM-618	Talent Management and Recruitment Strategies
MSBA-HRM-608	HR Analytics and Metrics	MSBA-HRM-619	Training and Development
MSBA-HRM-609	HR Metrics, Dashboards, and Decision Support	MSBA-HRM-620	Virtual Collaboration and Digital Team Management
MSBA-HRM-610	Human Resource Information Systems (HRIS)	MSBA-HRM-621	Workforce Planning and HR Forecasting
MSBA-HRM-611	Industrial Relations & Labor Laws		

Islamic Banking and Finance (Cluster Code: IBF)

Course Code	Course Title	Course Code	Course Title
MSBA-IBF-601	Islamic Banking Deposit Products & Treasury Operations	MSBA-IBF-606	Islamic Wealth Planning & Management
MSBA-IBF-602	Islamic Business Ethics	MSBA-IBF-607	Pool Management in Islamic Banking
MSBA-IBF-603	Islamic Banking Financing Products	MSBA-IBF-608	Shariah Foundations of Business and Finance
MSBA-IBF-604	Islamic Financial Institutions & Markets	MSBA-IBF-609	Shariah Standards
MSBA-IBF-605	Islamic Law of Sales & Contract	MSBA-IBF-610	Takaful Practices in Islamic Finance

Marketing (Cluster Code: MKT)

Course Code	Course Title	Course Code	Course Title
MSBA-MKT-601	Advertising and Promotional Strategies	MSBA-MKT-611	Marketing for Nonprofit Organizations
MSBA-MKT-602	Brand Management	MSBA-MKT-612	Marketing Research
MSBA-MKT-603	Consumer Behavior	MSBA-MKT-613	Pricing Strategies
MSBA-MKT-604	Customer Relationship Management	MSBA-MKT-614	Retail Management
MSBA-MKT-605	Digital Marketing	MSBA-MKT-615	Sales Management
MSBA-MKT-606	Digital and Social Media Marketing	MSBA-MKT-616	Services Marketing
MSBA-MKT-607	Integrated Marketing Communications	MSBA-MKT-617	Social Marketing
MSBA-MKT-608	International Marketing	MSBA-MKT-618	Strategic Marketing
MSBA-MKT-609	Marketing 4.0	MSBA-MKT-619	Tourism Marketing
MSBA-MKT-610	Marketing Analytics		

Operations and Supply Chain Management (Cluster Code: OSC)

Course Code	Course Title	Course Code	Course Title
MSBA-OSC-601	Blockchain in Supply Chain	MSBA-OSC-609	Routing & Fleet Management
MSBA-OSC-602	Contemporary Issues in Supply Chain Management	MSBA-OSC-610	Supplier Relationship Management
MSBA-OSC-603	Customer Relationship Management	MSBA-OSC-611	Supply Chain Analytics
MSBA-OSC-604	Demand Planning and Forecasting	MSBA-OSC-612	Shipping, Freight, and Port Management
MSBA-OSC-605	Humanitarian Logistics	MSBA-OSC-613	Supply Chain Finance
MSBA-OSC-606	Inventory Management	MSBA-OSC-614	Supply Chain Risk Management
MSBA-OSC-607	Maritime Logistics	MSBA-OSC-615	Sustainable Supply Chain Management
MSBA-OSC-608	Procurement	MSBA-OSC-616	Transportation Management

Sustainability, Ethics and Corporate Governance (Cluster Code: SUS)

Course Code	Course Title	Course Code	Course Title
MSBA-SUS-601	Business Ethics and Governance	MSBA-SUS-605	Environmental Economics
MSBA-SUS-602	Circular Economy and Business Models	MSBA-SUS-606	Green Marketing and Branding
MSBA-SUS-603	Climate Change and Business Strategy	MSBA-SUS-607	Social Impact Assessment
MSBA-SUS-604	Corporate Social Responsibility	MSBA-SUS-608	Sustainability Reporting and ESG Metrics

Governing Notes & Policies

- Standard nomenclature: "Master of Science in (thematic area of Business Administration)".
- Non-Muslim students: the 2 CH Fehm-e-Quran requirement is replaced with an equivalent General Education course approved by the university's statutory bodies.
- Specialization is recorded on the transcript only when all five electives are drawn from one cluster; it is never printed on the degree certificate.
- Course load per regular semester is capped at 13 credit hours, except Semester II which carries 16 credit hours (up to 8 CH in summer semester, for deficiency/repeat courses only).
- 3-credit-hour courses may be delivered as 3×1-hour, 2×1.5-hour, or 1×3-hour sessions per week.
- Students admitted from outside the business/management field (16-year degree) are subject to deficiency courses (6–30 CH) as prescribed in the HEC curriculum, determined case-by-case by the Department.
- Thesis defense and evaluation by the constituted committee is mandatory for graduation under the thesis track.
- This scheme is subject to periodic review and revision by the Board of Studies in line with future HEC notifications.

FACULTY


PROF. DR. GHULAM ALI JARIKO
DEAN & PROFESSOR
PROF.DR. MURAD KHATOON
HOD & PROFESSOR
DR. NADIR ALI LANJWANI
ASSISTANT PROFESSOR
MR. GHULAM UMAR
LECTURER
MR. MUHAMMAD WASEEM
LECTURER
MR. NOMAN AFZAL
RESEARCH ASSOCIATE
MS. JAVERIA IQBAL
LECTURER

INTRODUCTION OF INDUS COLLEGE OF NURSING

Indus College of Nursing, The University of Modern Sciences, Tando Muhammad Khan was established in 2021 and since then has been providing an excellent foundation for a rewarding career in nursing. Our aim is to produce competent nurses and to improve quality of care provided at healthcare centers. Our faculty, which is highly specialized in its area of expertise, offers a wealth of knowledge and experience to the nursing students.

ICON maintains a high standard of education and offers world class nursing training to develop clinical, research and leadership rolls. We are registered with Pakistan Nursing and Midwifery Council (PNMC) Islamabad. And offer multiple diplomas, Degrees and Specialized courses in Nursing.

INDUS COLLEGE OF NURSING

VISION

Indus College of Nursing is a leading Nursing Educational institution that prepares competent, caring and compassionate nurses who provide evidence-based quality care to individuals, families, and communities to meet their health care needs.

MISSION

To provide a strong foundation to our students for advance studies in nursing through standardized admission, education and administrative policies. To provide conducive learning environment to our students and faculty members without any discrimination based on their race, color, gender, religion, political belief, marital status, nation or ethnicity.

To develop knowledge and skills of the students by means of proven methods of academic programs and instructions.

FACILITIES AT INDUS COLLEGE OF NURSING



CLASSROOMS LEARNING

The classrooms are air-conditioned and equipped with Multimedia, LEDs, and whiteboards.



SKILLS LAB

Skills lab is an integral pan of clinical learning where nursing students earn a variety of psychomotor skills. Skills Lab provides an opportunity for the students to strengthen their critical thinking and decision making skills under the supervision of their teachers Learning psychomotor skills in the lab also facilitate students to gain confidence before performing any procedure on the real patient. Aftertheinitialtrainingin Skillslab. thestudents are sent far clinical practice to the hospital where they work under the supervision of the faculty and registered nurses.



SCIENCE LAB

Indus College of Nursing provides the facility of separate Science Lab where students can perform basic science experiments. The science lab provides students with necessary skills and technologies for laboratory-based investigations within biological and life sciences areas. The laboratory in well equipped with analytical laboratory techniques and equipment's specifically in the subjects of Biochemistry, Life sciences and Microbiology. It enables the nursing students to explore a variety of laboratory techniques to be prepared and trained for the clinical set up.



CENTRAL LIBRARY

The Students have acœss to Internet and Wi-Fi facilities in the library. Students also have access to the research articles and ebooks.

FACILITIES AT INDUS COLLEGE OF NURSING



HOSPITAL BASED CLINICAL FACILITIES

For the clinical placement, the college is affiliated with Indus Medical College Hospital. the hospital provide the students exposure to a number of clinical disciplines related to all areas of medical and surgical nursing, leadership and management Pediatric, Gynae and Obstetrics. Although the primary clinical site for students remain IMCH, but for certain specialized trainings such as mental health nursing, students do their clinical training at Sir Cowasjee Institute of Psychiatry, Mental Hospital Hyderabad.



COMPUTER LAB

For all computer related work student utilize fully furnished computer lab. Students also have the internet facility in the computer lab.



LIFE AT INDUS COLLEGE OF NURSING CO-CURRICULAR ACTIVITIES

As a part of Co-curricular activities ICON arranges the Many Activities Like Awareness Workshops, BLS Programs, Seminars, debates, cultural and social welfare activities and Sports activities the students also have the opportunity to participate in character building activities organized by the Higher Education Commission and ICON.

ICON students also participate in different activities and events organized by The University of Modern Sciences, Tando Muhammad Khan.

INDUS COLLEGE OF NURSING

GENERIC BSN (04 YEARS DEGREE PROGRAM)

REGISTRATION OF PAKISTAN NURSING COUNCIL

BSN Degree program is registered with Pakistan Nursing & Midwifery Council (PNMC), Islamabad as per their Rules & Regulations.

ADMISSION CRITERIA

Qualification: FSc (Pre-Medical) or equivalent with 50% marks minimum, having studied Biology.

- Age Limit: 14-35 Years
- Gender Ratio: Open Merit

Scheme of Study of 4 Year Generic BSN

This program comprises a minimum of 134 Credit Hours.

A STUDY PLAN
Generic BSN
DURATION: 4 YEARS

1st Professional Post RN BSN

First Semester		
S.No	Subject	Cr. Hr.
1	Microbiology	1.5+0.5
2	Biochemistry for Nurses	1.5+0.5
3	English-I (Functional)	3+0
4	Fundamental of Nursing -I	2+1
5	Anatomy &Physiology- I	2.5+0.5
6	Ideology & Constitution of Pakistan	2+0
7	Information & Communication Technology	1+1
	Total Cr. Hr.	17

Second Semester		
Course No.	Subject	Cr. Hr.
	Fundamental of Nursing-II	2+2
	Quantitative Reasoning-I	3+0
	Anatomy &Physiology-II	2.5+0.5
	Applied Nutrition	2+0
	Theoretical Basis of Nursing	2+0
	Islamic Studies/ Ethics	2+0
FQ-323	Fehm-e-Quran - I	0+1
	Total Cr. Hr.	17

2nd Professional Post RN BSN.

Third Semester		
Course No.	Subject	Cr. Hr.
	Professional Communication Skills	3+0
	Clinical Pharmacology & Drug Administration- I	2+0
	Medical Surgical Nursing-I	3+4
	Health Assessment-I	1+1
	Pathophysiology-I	2+1
FQ - 423	Fehm-e-Quran - II	0+1
	Total Cr. Hr.	18

Fourth Semester		
S.No	Subject	Cr. Hr.
1	Applied Psychology	3+0
2	Medical Surgical Nursing-II	3+4
3	Health Assessment-II	1+1
4	Pathophysiology-II	2+0
5	Clinical Pharmacology & Drug Administration -II	2+0
6	Professionals Ethics for Nurses	2+0
	Total Cr. Hr.	18

A STUDY PLAN
Generic BSN
DURATION: 4 YEARS

3rd Professional Generic BSN.

Fifth Semester		
S.No	Subject	Cr. Hr.
1	Civics & Community Engagement	2+0
2	Pediatric Health Nursing	3+3+1
3	Maternal Neonatal & Child Health Nursing	2+1
4	Epidemiology	2+0
5	Infectious Diseases	2+0
	Total Cr. Hr.	16

Sixth Semester		
S.No	Subject	Cr. Hr.
1	Principled of Teaching & Learning	3+0
2	Public Health Nursing	2+2
3	Mental Health Nursing	3+2+1
4	Introduction to Biostatics (QR2)	3+0
5	Culture, Health & Society	2+0
	Total Cr. Hr.	18

4th Professional Generic BSN.

Seventh Semester		
S.No	Subject	Cr. Hr.
1	Leadership & Management	2+1
2	Critical Nursing Care Nursing	2+4+1
3	Introduction to Nursing Research	3+0
4	Entrepreneurship	2+1
5	Elective	2+0
	Total Cr. Hr.	17

Eighth Semester		
S.No	Subject	Cr. Hr.
1	Geriatric Nursing	1.5+1.5
2	Trends & Issues in Health care	2+0
3	Expository Writing	3+0
4	Elective	3+0
5	Clinical Practicum	0+4
	Total Cr. Hr.	15

INDUS COLLEGE OF NURSING

1. Attendance in Classes and Clinical Experience.

The University is determined to improve its teaching standards. The record of attendance is essential to determine eligibility of students for her / his appearing in the examination.

- It is mandatory for students to attend all classes and clinical sessions. Further it is responsibility of students to arrange make up for missed classes, assignments, test and clinical.
- 75% attendance is mandatory to be eligible to appear in the semester examination.
- 10% waiver (5% by Vice Chancellor & 5% by waiver Committee) can be given on medical grounds by the committee as per university rule.
- At least 40% attendance shall be required to appear in the RE-SIT EXAMINATION.

2. Regular Assigned Leave

a) There will be 15 days leave between each semester.
b) During the maternity leave, if the academic session in on the student will cover the remaining course work by themselves.
c) No student is allowed to remain absent during clinical experiences.
d) Leave of absence for special reasons must be obtained from the Head of Institution or Co-coordinator of the Class.

3. Withdrawal Dismissal.

The authority of the TUMS has the privilege of recommending the withdrawal or dismissal of admission or semester of any student for the following reasons.

a) Class or Clinical attendance of less than 75%.
b) Any conduct which is judged unsatisfactory, illegal or immoral.
c) Failure to meet the Academic standards due to academic failure.
d) Failure to abide by the rules and regulations.

INDUS COLLEGE OF NURSING

PROCEDURE POLICY / RULES OF ADMISSION

1. Application along with attested photocopies of required documents shall be submitted in the prescribed printed form and all columns must be filled in correctly. Incomplete forms are liable to be rejected.
2. All admissions are provisional, subject to verification of their original documents submitted by the candidate. If, at any stage it is proved that the candidate has been admitted on the basis of FAKE or INCORRECT document(s), her/his admission will be cancelled and University authorities reserve the right to take legal action against that candidate. Penalty may also add here.

Academic Policies and Procedures

A. GENERAL INSTITUTIONAL REGULATIONS

a). All the candidates must present themselves in the institute on the first day of first semester, i.e. Orientation Week.

b). Class schedule / time table will be posted on bulletin / Notice board

c). Classes will be scheduled to 8.00 am to 3.00 pm.

d). A Student will not be allowed after 15 Minutes of the start of the class.

INDUS COLLEGE OF NURSING

- **Attendance in Classes and Clinical Experience.**
- The University is determined to improve its teaching standards. The record of attendance is essential to determine eligibility of students for her / his appearing in the examination.
- 75% attendance is required to be eligible to appear in the semester examination. 10% waiver (5% by Vice Chancellor & 5% by waiver Committee) can be given on medical grounds or any other valid reason acceptable by the committee.
- The candidate having less than 65% attendance shall not be eligible to appear in the regular semester examination.
- The candidate required at least 40% attendance shall be eligible to appear in the re-sit examination only.
- **As per Pakistan Nursing & Midwifery Council Rule** students must have to attend 100% of the total clinical hours and 85% of the theoretical hours in each subject of academic session to appear in examination.
- If a student fails to attend as per PN&MC Rule will repeat the Subjects in next academic year.

INDUS COLLEGE OF NURSING

Post RN BSN (02 years Degree Program)

This is a 2 years program offered by the Indus College of Nursing. The aim of this program is to provide an opportunity to qualified registered nurses who already have diploma in nursing (RN) & Post basic specialty to earn a Bachelor of Sciences degree in Nursing. Graduates of this program will be streamlined with national and international basic nursing education. These professional nurses will further be able to strengthen the nursing practices.

REGISTRATION OF PAKISTAN NURSING COUNCIL

BSN Degree program is registered with Pakistan Nursing & Midwifery Council (PNMC), Islamabad as per their Rules & Regulations.

ADMISSION CRITERIA

Post RN BSN (02 years Degree Program)

Qualification

- Matric with Science (Biology, Chemistry & Physics as compulsory subjects)

  OR

  Matric Arts as per HEC Notification No.8 (61)/A&A/2018/HEC/5998 dt. 06.04.2018..

- Diploma in Nursing

  Diploma in Midwifery (any Post Basic Specialty for males in lieu of midwifery)

Scheme of Study of 2 Years Post RN BSN

This program comprises a minimum of 66 Credit Hours.

A STUDY PLAN
Post RN BSN
DURATION: 2 YEARS

1st Professional Post RN BSN

First Semester		
Course No.	Subject	Cr. Hr.
SC 611	Biochemistry	2(1.5+0.5)
NU 612	Advance Concepts in Nursing I (Adult Health Nursing)	4 (2+2)
NU 613	Health Assessment	3(1.5+1.5)
SC 614	Pharmacology	3
EN 615	English I (Functional)	2
CS 616	Computer Skills & Information Technology	02
	Total Cr. Hr.	16

2nd Professional Post RN BSN.

Second Semester		
Course No.	Subject	Cr. Hr.
NU 621	* Advance Concepts in Nursing (II) Mental Health	04 (2+2)
SC 622	Introduction to Biostatistics	02
SC623	Epidemiology	02
HU 624	Culture Health & Society	02
NU 625	Introduction to Nursing Models & Theories	02
EN 626	English II (Academics)	02
NU 627	Principle of Teaching and Clinical Preceptorship	3
FQ-323	Fehm-e-Quran - I	0+1
	Total Cr. Hr.	18

Third Semester		
Course No.	Subject	Cr. Hr.
Nu 631	Advance Concepts III (CHN)	04(2+2)
SC 632	Introduction to Nursing Research	03
NU 633	Professional Development and Ethics	03
PS 634	Pak Studies	02
NU 634	Leadership and Management	03
EN 635	English III (Professional writing)	02
FQ - 423	Fehm-e-Quran - II	0+1
	Total Cr. Hr.	18

Fourth Semester		
Course No.	Subject	Cr. Hr.
NU 641	*Research/ Evidence based Elective project	4
NU 642	**Clinical Practicum	6
EN 643	English IV (Scholarly writing)	2
IS 644/ ET 644	Islamic Studies/Ethics (For Non-Muslims)	02
	Total Cr. Hr.	18

Total Credits for Two Years				
	Semester-I	Semester –II	Total	Theory & Practice balance =
Year I	16 Credits	18 Credits	34	
Year II	18Credits	14 Credits	32	
Grand Total			66	

*Research/ Evidence based Elective project: Every student should write a project report/research report/ individually in the final year in their topic of interest approved by Faculty.

**The clinical practicum should be flexible and student should choose clinical area according to their interest with an approval obtained from the course teacher. The clinical practicum should also include clinical seminar, tutorials, clinical and reflective logs.

Note: ***Numbering of the courses will be at level 6. Above table is provided as an example where the first number '6' shows the level of the course as provided by HEC, second number is the number of semester in the program and the third number is the sequence of the course in the semester.*** **However, the university has the flexibility of numbering the courses as per their university rule without changing the first number which is 6.**

ACADEMIC POLICIES FOR POST RN BSN

Upon completion of degree

Theory Course of 01 Credit Hours	01 class of 01 hour per week
Practical / Clinical (Lab) Work / Field Work of 01 Credit Hour	03 hours per week

1. Course Credit Calculation

The credit hours are denoted by two digits within brackets with a hyphen/plus in between. The first digit **represents the theory part while the second** (right side) digit represents the practical.

Thus 3(3+0)/3(3-0) means three credit hours of theory, while 4(3+1)/4(3-1) means a total of four credit hours, of which three are of theory while one credit hour is for laboratory/studio work/field work/practical work supervised and graded by the faculty, and 4(1+3)/4(1-3) means a total of four credit hours, of which one is of theory while three credit hours are for laboratory/studio work/field work/practical work as per requirement of discipline.

Certified Nursing Assistant (CNA) Overview

The Certified Nursing Assistant (CAN) Diploma programme is of two academic years leading to the eligibility for license as CNA. The programme is recognized by the Pakistan Nursing Counsil, Islamabad.

Certified Nursing Assistant (CNA) is a (02) Two-years professional education program leading to practice as a registered Nurse. The diploma program offers integrated nursing knowledge, skills and professional attitude. Upon completion of this program the graduate is prepared to be a safe clinical nurse, who will be able to provide comprehensive care at primary, secondary and tertiary levels with in hospitals and community settings.

Goals

In keeping with our philosophy, the major goals of PNC to start this program are to:

- Educate nurses with appropriate knowledge, skills and attitudes and with clinical competency.
- Maintain a safe and Healthy environment for the prevention of disease, promotion and maintenance of health.
- provide information, counselling and health education to individual family and community.
- Participate in screening, case identification and management of common minor illness and injuries.
- Participate actively in professional organization for the improvement of the nursing profession.

INDUS COLLEGE OF NURSING

2 years Certified Nursing Assistant (CNA) Diploma

ADMISSION CRITERIA

- Matriculation in Science group (Minimum 45%)
- Age: 18 to 35 years
- Gender : Male and Female

Required Documents

Mark Certificate Matriculation

- Pass Certificate Matriculation
- CNIC Copy of Father / Guardian
- 05 Pass port size photographs (White Background)
- CNIC Copy of Applicant
- Domicile PRC-Form C

Scheme of Study of 2 Years Certified Nursing Assistant (CNA) Diploma

1st Professional Certified Nursing Assistant (CNA) Diploma

A TYPICAL STUDY PLAN
Certified Nursing Assistant (CNA) Diploma
DURATION: 2 YEARS

1ST YEAR			2nd YEAR		
S/NO	SUBJECTS	CR/HR	S/NO	SUBJECTS	CR/HR
1	ORIENTATION/PTS	72			
2	English	60	1	English	100
3	FON /Ethics/ history of nursing:				
			2	Community Health Nursing/ Nutrition	
	THEORY	150		Theory =	150
	NURSING LAB	179		Clinical =	450
	BED SIDE NSG	777		Total =	600
	TOTAL	1106			
4	Microbiology		3	Medical Surgical Nursing:	
	THEORY	24		Theory =	150
	PATH LAB	20		Clinical =	450
	TOTAL	44		Total =	600
5	Anatomy & Physiology		4	Pharmacology/ Math	
	THEORY			Theory	Lab
	SCIENCE LAB	100		TOTAL	06
	TOTAL	30			56
		130			
6	Islamiat/ Ethics	20	5	Pediatric Nursing	

POST BASIC CARDIAC NURSING DIPLOMA

The Post Basic Diploma in Cardiac Nursing is 1 year program that provides experiential and educational opportunities for Nurses professional grooming and enhances the hospital's commitment to patient care.

Eligibility Requirements

Male and female nurses who meet the following requirements are eligible to apply:-

3 years Basic Nursing Diploma Training

2 years Experience as a Registered Nurse with Pakistan Nursing Council (PNG:)



INDUS COLLEGE OF NURSING

POST BASIC CARDIAC NURSING DIPLOMA

ADMISSION CRITERIA

- Diploma in General Nursing
- Gender: Male and Female
- Valid PNC Registration

Required Documents

- 3 years General nursing Diploma passed or (appearance certificate for result awaiting Student).
- Valid PNC Registration Card
- Pass Certificate Matriculation
- CNIC Copy of Father / Guardian
- 05 Pass port size photographs (White Background)
- Mark Certificate Matriculation
- CNIC Copy of Applicant
- Domicile PRC-Form C

POST BASIC ICU NURSING DIPLOMA

This 1-year Post Basic ICU Nursing Diploma is consists of 12 core modules along with 6 supplementary modules. The curriculum of this course fosters critical thinking decision-making, knowledge-based actions reflective practice, professional and technical skills at completion of diploma the nurses will be able to:

1. Work professionally as Critical Care Nurse and deliver individualized quality care to the critically ill patient and the family.
2. Demonstrate responsibility and accountability by using knowledge, skills, expertise and experience within the professional legal and ethical boundaries in nursing care decision making.
3. Identify personal social and environmental factors that affect attitudes towards health and illness.
4. Apply current nursing developments and techniques in accordance with the institutional and National Codes of Practice and Policies, and the changing Health Care System.
5. Develop nursing research skills to utilize research and evidence-based findings in Emergency and Critical Care Nursing settings.
6. Demonstrate reflective skills on knowledge and skills in clinical practice and in situational decision making.





INDUS COLLEGE OF NURSING

POST BASIC ICU NURSING DIPLOMA

ADMISSION CRITERIA

- 1 years Post Basic "ICU Nursing" Diploma
- Diploma in General Nursing
- Gender: Male and Female
- Valid PNC Registration

Required Documents

- 3 years General nursing Diploma passed or (appearance certificate for result awaiting Student).
- Valid PNC Registration Card
- Pass Certificate Matriculation
- CNIC Copy of Father / Guardian
- 05 Pass port size photographs (White Background)
- Mark Certificate Matriculation
- CNIC Copy of Applicant
- Domicile PRC-Form C

INDUS COLLEGE OF NURSING

FIRST & SECOND SEMESTER EXAMINATION

First Semester students who after appearing in Regular Semester examination, either declared pass or fail will be allowed for promotion to the Second Semester. Upon promoting to 2nd Semester students who either pass or fail, in First Semester examination, both will be allowed to appear in 2nd Semester (Regular) examination and Pending Result of Second Semester Examination.

If the classes of 3rd Semester are commenced, students of 2nd Semester (either pass or fail in 1st Semester) will be allowed to attend the classes of 3rd Semester. After announcement of 2nd Semester examination result, students of 1st & 2nd Semester will fall in the following groups.

a) Passed First & Second Semester
b) Passed Second Semester but failed in First Semester
c) Passed First Semester but failed in Second Semester
d) Failed in both Semesters

Students under category "B", "C" and "D" will be allowed Re-sit examinations of First & Second Semesters simultaneously while they remain under study process of Third Semester. After announcement of Re-sit examinations result of both First & Second Semesters, the students will be bifurcated into the following groups:

1) Passed First & Second Semesters examinations completely, they will continue in 3rdSemester.
2) Students who failed either in First Semester or in Second Semester or both examinations shall be reverted i.e. TERMED BACK to First Semester or in Second Semester or both with junior batch.

IMPORTANT

In case of their failure in subjects of 1st Semester or 2ndSemester or both semesters, after re-sit / repeat examination, 8 (eight) chances / whether appear or not despite being eligible for each examination shall cease to pursue further nursing education. Their names shall be struck off from the roll of Indus College of Nursing. The University of Modern Sciences, Tando Muhammad Khan as per policy of this University.

INDUS COLLEGE OF NURSING

THIRD & FOURTH SEMESTER EXAMINATION

Third Semester students who after appearing in Third Semester (Regular) examinations, either declared PASS or FAIL will be allowed in Fourth Semester, upon promotion in 4thSemesterstudents who either have passed or fail in 3rd Semester Examination. Pending result of 4th Semester Examination, if the classes of 5thSemester are commenced, students of 4th Semester (either pass or fail in 3rdsemester) will be allowed to attend the classes of 5th Semester. After announcement of 4th semester examination result, students of 3rd and 4th Semester will fall in the following groups:

a) Passed 3rd and 4thSemester

b) Passed 4thSemester but failed in 3rdSemester

c) Passed 3rd Semester but failed in 4thSemester

d) Failed in both the Semesters

Students under category b, c and d will be allowed Re-sit examination of 3rdand 4th Semesters simultaneously, while they remain under study process of 5th Semester. After announcement of Re-sit examinations result of both 3rd and 4th Semesters, the students will be bifurcated into the following groups:

1) Passed 3rd and 4th Semesters examination completely, they will continue in 5th Semester.

2) Students who failed either in 3rd Semester or in 4th Semester or both examinations shall be reverted i.e. termed back to 3rd Semester or in 4th Semester or both with junior batch.

IMPORTANT

Above group of students of BS Nursing, after term back, will repeat the failure subject(s) of semester 3rd or 4th or both with junior batch.

FIFTH & SIXTH SEMESTER EXAMINATION

5th Semester students who after appearing in 5th semester (regular) examination, either declared pass or fail will be allowed promotion to 6th semester. Upon promotion in 6th Semester, students who either pass or fail in 5th Semester examination both will be allowed to appear in 6th Semester examination. Pending result of 6th Semester examination, if the classes for 7th Semester are commenced, students of 6th Semester (either pass or fail in 5th Semester) will be allowed to attend the classes of 7th Semester.

INDUS COLLEGE OF NURSING

After announcement of 6th Semester examination result, students of 5th and 6th Semesters will fall in the following groups:

a) Passed 5th and 6th Semester
b) Passed 6th Semester but failed in 5th Semester
c) Passed 5th Semester but failed in 6th Semester
d) Failed in both the semesters

Students under category b, c and d will be allowed Re-sit examinations of 5th and 6th Semesters simultaneously while they remain under study process of seventh semester.

After announcement of Re-sit examinations result of both 5thand 6thsemesters, the students will be bifurcated into the following groups:

1) Passed 5th and 6th Semesters examinations completely they will continue in 7th Semester

2) Students who failed either in 5th Semester or in 6th Semester or both examinations shall be reverted i.e. TERMED BACK to 5th semester or in 6th Semester or both with junior batch.

IMPORTANT

Above group of students of BS Nursing after TERM BACK will repeat the failure subject(s) of 5th or 6th Semesters both with junior batch.

SEVENTH AND EIGHTH SEMESTER EXAMINATION

7th Semester students who after appearing in 7th Semester (regular) examination, either declared PASS or FAIL will be allowed promotion to 8th Semester.

Upon promotion in 8th Semester students who have either passed or failed in 7th Semester examination both will be allowed to appear in 8th Semester examination.

INDUS COLLEGE OF NURSING

1. In case, students who will be declared pass both in 7th and 8th semesters, they will be declared to have pass BS Nursing Examination completely and shall be awarded Degree.

2. However, in case of failure in either 7th and 8th or both semesters they will be allowed to appear in Re-sit examination and will continue to repeat failure subject(s) till they completely pass the 7th / 8th or both Semesters examinations.

With reference to letter No. PNC F11/Admin/2009 1580, dated: 18.07.2009, issued by Pakistan Nursing Council Islamabad institute will follow examination policy including passing criteria and / or grading system of LUMHS Jamshoro.

FEE FOR FAILURE / REPEATER STUDENTS

In case of students who are admitted under semester system and are declared fail in one semester but passed the other semester of the same year, they will be charged HALF SELF-FINANCE FEE.

In case of detained / with-held students shall be charged ONE THIRD (1/3) of the Total Annual Tuition Fee (for each failed subject), if a student is failed in all subjects 75% of annual tuition fee shall be charged.

Repeater candidates who are admitted under general regular merit category will be charged FULL FEE.

REGISTRATION OF PAKISTAN NURSING COUNCIL

After four years of semester system education and one-year honorary Internship in the affiliated Hospital, the licensing examination will be conducted by Pakistan Nursing and Midwifery Council (PNMC) for registration.

MEDIUM OF INSTRUCTION

The medium of teaching / instruction, both in practical and theory, is carried out in English.

FACULTY

Mr. Asif Ali
Principal

Ms. Shahnaz Keerio
Vice Principal

Mr. Ubedullah
Assistant Professor

Ms. Syeda Almas Zaidi
Senior Nursing Lecturer

Ms. Aksa Banu
Senior Nursing Instructor

Ms. Samra Rafique
Nursing Lecturer

Ms. Rehana
Nursing Instructor

Ms. Tooba Sheikh
Nursing Instructor

FACULTY

Ms. Vivean Sandra
Nursing Lecturer

Ms, Nazia Hassan
Nursing Lecturer

Ms. Amber Ayoub
Nursing Lecturer

Ms. Iqra
Assistant Professor

Ms. Mehak Memon
Demonstrator

Mr. Abdul Rehman
Visiting Faculty

Mr. Abdul Karim
Visiting Faculty

Mr. Bahadur
Nursing Lecturer

DIPLOMA IN CT TECHNOLOGY

One year Diploma in CT technology leading to CT technologist is a well-structured program having two regular semesters over one year period consisting of 40 credit hours After this diploma candidate will be able to perform all types of CT scans independently. The curriculum is at par with the international standard.



Goals

1. Develop competent, effective, medical imaging professional.
2. Support development of skills necessary to practice in diverse healthcare environments and to acquire prominent roles in radiologic science.
3. Program curriculum, teaching methods and philosophy promote development of integrative, critical thinking and communication skills to include written, oral and electronic discourse.
4. Graduate successfully pursue scholarly activities such as contributions to the profession and post-baccalaureate education.
5. Encourage global awareness of cultural and health care perspectives.

STUDENT OUTCOMES

1. Graduates completing the program will:
2. Competently perform CT Procedures to obtain diagnostic images.
3. Provide appropriate patient care to CT patients
4. Demonstrate ALARA principles to ensure radiation safer.
5. Communicate professionally with patients and members of the healthcare team.
6. Perform and monitor quality assurance tests.
7. Emphasizes the principles of exposure, image quality, patient care. radiation safety and other associated professional skills,
8. Placement of clinical assignment is by program coordinator.

Scheme of Study of 01-YEAR DCTT Program

A TYPICAL STUDY PLAN
DIPLOMA IN CT TECHNOLOGY
DURATION: 1 YEARS

SEMESTER	COURSE #	NAME OF SUBJECT	CREDIT HOUR
FIRST	DIPCT-211	General Anatomy for Imaging	2 + 0
	DIPCT-212	English – I	1 + 1
	DIPCT-213	Computer Skills	2 + 3
	DIPCT-214	CT procedure/ patients Care-I	2 + 2
	DIPCT-215	CT Physics – I	
Semester Credit Hour			**16**
SECOND	DIPCT-211	General Anatomy for Imaging	2 + 1
	DIPCT-221	CT Physics – II	2 + 2
	DIPCT-222	English – II	2 + 0
	DIPCT-223	Cross Sectional Anatomy for Imaging	2 + 0
	DIPCT-224	CT Procedure and Patient Care – II	2 + 3
Semester Credit Hour			**13**

Diploma in X-Ray

The healthcare industry is expanding and professionals in various Welds are needed to ensure a well-managed healthcare sector in a country.

This course deals with the electromagnetic radiations that enter the human body and create images of internal structures in photographic him. After the doctor deals with the problem and treats them.

This course helps the students to acquire the knowledge to Perform in the laboratory tests general radiography and electrocardiograms and many more tests with the technology of electromagnetic radiations.

Diploma in X-ray technology is a course where students can learn how to prepare a patient undergoing x-rays and electrocardiogram procedures and the process is carried out carefully.

Students conduct vein-punctures and injections as well as office laboratory tests.



Human Anatomy	Radiography: Patient Care and Hospital Practice
Radiographic Techniques and Diagnostic	Basics of Radiography
Radiodiagnostic Radiography Equipment	Electrocardiography
Radiodiagnostic Result Correlation	Radiographic Techniques
Clinical Haematology, Chemistry, and Urinalysis	Radiographic Image Acquisition
Diagnostic Radiography	Basic Physics

Diploma in Blood Bank and Transfusion

This program is intended for students who are willing to pursue their career in Blood Bank and Transfusion Medicine.

AIM

After completion of this Diploma course candidates will be able to perform all types of basic as well as advanced Blood Bank techniques.

ABOUT THIS PROGRAM

One year diploma in Bood Bank and Transfusion !s a well- structured program having two regular semesters comprising 40 credit hours



Diploma in Blood Bank and Transfusion
SCHEME OF STUDIES FOR 01-YEAR DBBT PROGRAM

SEMESTER	COURSE #	NAME OF SUBJECT	CREDIT HOUR
FIRST	DBT – 711	Blood Banking I	03 + 04
	BBE – 712	English	2 + 0
	BBCS – 713	Computer Skill	1 + 1
Semester Credit Hour			**11**
SECOND	DBT – 721	Blood Banking II	4 + 6
Semester Credit Hour			**10**

DIPLOMA IN OPHTHALMIC TECHNICIAN

INTRODUCTION

This program is intended for students who are willing to pursue their career as an ophthalmic Technician.

ABOUT THIS PROGRAM

Two years diploma program for Ophthalmic technician is a well-structured program having four regular semesters.



SEMESTER	COURSE #	NAME OF SUBJECT	CREDIT HOUR
FIRST	DOT – 211	Anatomy	2+1
	DOT – 212	Physiology	2+1
	DOT – 213	Diagnostic Instruments and Refractive Errors	3+5
	DOT – 214	English	2+0
	DOT – 215	Computer Skills	1+1
	DOT – 216	Pakistan Studies	2+0
Semester Credit Hour			**20**
SECOND	DOT – 221	Ocular Anatomy	2+1
	DOT – 222	Ocular Physiology	2+1
	DOT – 223	Optic and Refraction I (Viva Only)	0+4
	DOT – 224	Islamiat	2+0
Semester Credit Hour			**12**

SEMESTER	COURSE #	NAME OF SUBJECT	CREDIT HOUR
FIRST	DOT – 231	Ocular Pathology	2 + 1
	DOT – 232	Ocular Pharmacology	2 + 1
	DOT – 233	Optic and Refraction II (Viva Only)	0 + 4
	DOT – 234	Clinical Pharmacology	2 + 1
Semester Credit Hour			**13**
SECOND	DOT – 241	Sterilization (Viva Only)	0 + 4
	DOT – 242	Ocular Surgical Procedures	2 + 2
	DOT – 243	Optic and Refraction III (Viva Only)	0 + 4
Semester Credit Hour			**12**

DIPLOMA IN DENTAL TECHNICIAN

INTRODUCTION

This program is Intended for students who are willing to pursue their career as a dental technician.

ABOUT THIS PROGRAM

Two years diploma program for dental technician is a well-structured program having four regular semesters. Sound knowledge regarding dental procedures techniques and oral hygiene will be given to the candidates.





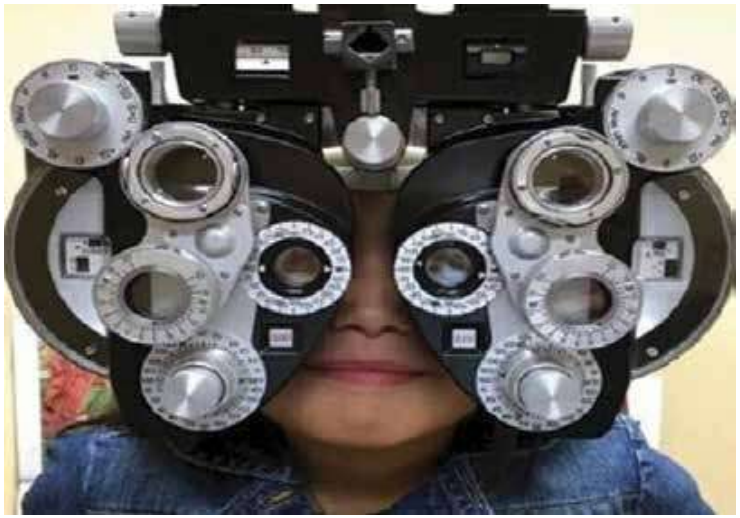
DIPLOMA IN DENTAL TECHNICIAN

SCHEME OF STUDIES FOR 02-YEAR DDT PROGRAM

SEMESTER	COURSE #	NAME OF SUBJECT	CREDIT HOUR
FIRST	DDT – 511	Dental Material	2+2
	DDT – 512	Physiology	2+1
	DDT – 513	Anatomy	2+1
	DDT – 514	Microbiology and Cross Infection Control	2+1
	DDT – 515	English	2+0
	DDT – 516	Computer Skills	1+1
Semester Credit Hour			**17**
SECOND	DDT – 521	Removeable Prosthodontics (Partial Denture) (Laboratory)	3+3
	DDT – 522	Introduction of Dental Anatomy	4+0
	DDT – 523	Basic Dental Technology	2+0
	DDT – 524	Sterilization and Disinfection	0+2
	DDT – 524	Islamiat	2+0
Semester Credit Hour			**16**

SEMESTER	COURSE #	NAME OF SUBJECT	CREDIT HOUR
THIRD	DDT – 531	Lab Management Skills	2 + 0
	DDT – 532	Removeable Prosthodontics (Complete Denture) (Laboratory)	3 + 3
	DDT – 533	Orthodontic Appliances (Laboratory)	2 + 2
	DDT – 534	Conservation Technology	2 + 0
	DDT - 535	Occlusion to Dental Laboratory Procedures	2 + 0
	DDT – 516	Computer Skills	1+1
Semester Credit Hour			**16**
FOURTH	DDT – 541	Maxillofacial Prosthodontics	0+2
	DDT – 542	Implant Prosthodontics	2+0
	DDT – 543	Fixed Prosthodontics	2+3
	DDT – 544	Ceramic Lab	0+5
	DDT – 545	Advance in Dental Technology	0+2
Semester Credit Hour			**16**

Diploma in Refraction Technician



INTRODUCTION

The course enables the candidate to carry out various tests using all the latest equipment in the market and creating a strong foundational knowledge in the subject area for the candidates.

This will ensure that your training is congruent with international Standards and will be recognized both in India and abroad. The course aims to impart interactive training for aspiring refractions on the following topics.

Required Documents

- Effectively record the patient's optometric histories
- Perform tests of visual acuity including distant and near vision with and without optical correction
- Assess the visual field
- Understand the principles of retinoscopy and subjective refraction.
- Dispense spectacles and optical prescription accurately.
- How to maintain confidentiality of medical records.

DIPLOMA IN REFRACTION TECHNICIAN

SCHEME OF STUDIES FOR 02-YEAR DDT PROGRAM

SEMESTER	COURSE #	NAME OF SUBJECT	CREDIT HOUR
FIRST	DRT – 611	Anatomy	2+1
	DRT – 612	Physiology	2+1
	DRT – 613	Diagnostic Instruments and Refractive Errors	3+5
	DRT – 614	English	2+0
	DRT – 615	Computer Skills	1+1
	DRT – 616	Pakistan Studies	2+0
Semester Credit Hour			**20**
SECOND	DRT – 621	Ocular Anatomy	2+1
	DRT – 622	Ocular Physiology	2+1
	DRT – 623	Optic and Refraction I	2+2
	DRT – 624	Islamiat	2+0
Semester Credit Hour			**12**

SEMESTER	COURSE #	NAME OF SUBJECT	CREDIT HOUR
THIRD	DRT – 631	Ocular Pathology	2 + 1
	DRT – 632	Ocular Pharmacology	2 + 1
	DRT – 633	Squint Assessment	2 + 2
	DRT – 634	Clinical Pharmacology	2 + 1
Semester Credit Hour			**13**
FOURTH	DRT – 541	Practical Refraction	2+2
	DRT – 542	Surgical Procedures in Refraction	2+2
Semester Credit Hour			**8**

DIPLOMA IN REFRACTION TECHNICIAN

INTRODUCTION

ELIGIBILTY CRITERIA FOR ADMISSION

The admission in all four years BS Programs, AAS in RADIOLOGIC TECHNOLOGY & Diploma Programs at College of Technology will purely be on merit basis.

1. Those candidates who have passed the Higher Secondary School Certificate (HSC) Examinations (Pre-Medical Group) with science subject/s i.e. Biology, Chemistry and Physics or 'A level (Pre- Medical) secured at least 50% marks in aggregate from any Board of Higher Secondary Education in Pakistan or any Institution from Foreign Countries duly recognized by Inter-Board Committee of Chairman (|BCC) are eligible to apply for the BS.TECHNOLOGY & DIPLOMA IN TECHNOLOGY PROGRAMMES.
2. The candidate should be permanent Resident of any District of Sindh.
3. For admission in Diploma in CT Technology and Diploma in MRI Technology, in addition to the above criteria's, additional one-year certificate Course in Radiography from Sindh Medical Faculty is mandatory.

PARAMEDICAL PROGRAMS

Course Description

One year diploma program in Hearth care Assistant for male and female candidates is designed to provide the students with the knowledge and skills necessary to perform basic health care services. It prepares the students to function in the role of nurse assistant under the supervision of a staff nurse. Satisfactory completion of the course makes the students eligible for the diploma to practice is a nurse aide to provide basic health care to patients Students must successfully complete specified hours of class room lectures. skill lab and clinical practice. Throughout this description the term nursing assistant and healthcare assistant is used interchangeably with nurse.

Nursing assistant can perform routine duties for caring patients. These duties might include bed making, bed bathing oral hygiene, taking vital signs, feeding, helping patients to transfer in and out bed, maintaining safely and cleanliness in the patients' general surroundings. Hand washing is expected at all time in the clinical setting.

Anatomy and Physiology (08 Credit hours)

One year diploma program in Health Care Assistant for male and female candidates is designed to provide the students with the knowledge and skills necessary to perform basic health care services. It prepares ihe students to function in the role of nurse assistant under the supervision of a staff nurse. Satisfactory completion of the course makes the students eligible for the diploma to practice as a nurse aide to provide basic health care to patients Students must successfully complete specified hours of class room lectures, skills lab and clinical practice. Throughout this description, the term Nursing Assistant and Health Care Assistant is used Interchangeably with Nurse Aide.

This course introduces learners to the structures and functions of the human body, Knowledge of anatomy and physiology provides better understanding and integration to theoretical practices in nurse care situations.

Fundamentals of Nursing (10 Credit hours)

This course introduces the students to nursing as professional discipline. It introduces basic concepts of nursing as a profession; define nursing and role of nurse in developing therapeutic relationship with clients using therapeutic communication techniques. It guides in identifying needs of clients using nursing process. Students learn nursing skills in the skills lab and apply in the clinical settings

CLINICAL COURSE

Basic Skills (06 Credit hours)

The objective of basic skills teaching is to enable students to receive and pass an accurate written and verbal informaiion regarding patients and related worL

Practical / Clinical Course Specialty Skills (12 Credit hours)

Students learn following specialized skills in their specialty areas. Knowledge application and hands on practice is provided by the nurse incharge and ward doctors in their assigned clinical placements

Course Objectives

Upon successful completion of this course the students will be able to:

1. Identify the roll and responsibilities of a nurse aide.
2. understand the basic knowledge necessary in providing basic health care services.
3. Demonstrate skills essential in providing basic health care services.
4. Communicate accurately and appropriately in the role of a nurse aide.

FEE SCHEDULE OF MS/MPHIL DEGREE PROGRAMS
SESSION 2025-26

MS Business Administration				
M.Phil Bio Chemistry				
Period	**Year 01**		**Year 02**	
	1st Sem	**2nd Sem**	**3rd Sem**	**4th Sem**
Admission Fee	Rs 20,000			
Tuition Fee	Rs 90,000	Rs 90,000	Rs 90,000	Rs 90,000
University Fee	Rs 10,000			
Documents Verification Fee One Time	Rs 3,000			
Enrollment/Eligibility Fee One Time	Rs 5,000			
ID Card Fee	Rs 200		Rs 200	
Total	Rs 128,200	Rs 90,000	Rs 90,200	Rs 90,000

FEE SCHEDULE OF 5 YEARS DEGREE PROGRAMS
SESSION 2025-26

THE UNIVERSITY OF MODERN SCIENCES DOCTOR OF PHARMACY/DOCTOR OF PHYSICAL THERAPY Session 2026										
Period	Year 01		Year 02		Year 03		Year 04		Year 05	
	1st Sem	2nd Sem	3rd Sem	4th Sem	5th Sem	6th Sem	7th Sem	8th Sem	9th Sem	10th Sem
Admission Fee	50,000									
Tuition Fee Per Year	150,000	150,000	165,000	165,000	181,500	181,500	199,650	199,650	219,615	219,615
University Fee	25,000		25,000		25,000		25,000		25,000	
Security deposit	25,000									
Registration Council One Time	5,000									
Documents Verification Fee One Time	3,000									
Enrollment/Eligibility Fee One Time	5,000									
Student Activity	2,000		2,000		2,000		2,000		2,000	
Library Fee	1,000		1,000		1,000		1,000		1,000	
ID Card Fee	200		200		200		200		200	
Total	**266,200**	**150,000**	**193,200**	**165,000**	**209,700**	**181,500**	**227,850**	**199,650**	**247,815**	**219,615**

FEE SCHEDULE OF 4 YEARS DEGREE PROGRAMS
SESSION 2025-26

THE UNIVERSITY OF MODERN SCIENCES								
BS - RADIOLOGY TECHNOLOGY/BS MEDICAL LABORATORY TECHNICIAN								
BS INFORMATION TECHNOLOGY/BACHELORS IN BUSINESS ADMINISTRATION								
BS - FORENSIC SCIENCE/ FORENSIC BIOLOGY								
BIO CHEMISTRY								
Session 2026								
Period	**Year 01**		**Year 02**		**Year 03**		**Year 04**	
	1st Sem	**2nd Sem**	**3rd Sem**	**4th Sem**	**5th Sem**	**6th Sem**	**7th Sem**	**8th Sem**
Admission Fee	20,000							
Tuition Fee Per Year	90,000	90,000	99,000	99,000	108,900	108,900	119,790	119,790
University Fee	25,000		25,000		25,000		25,000	
Security deposit	25,000							
Registration Council One Time	5,000							
Documents Verification Fee One Time	3,000							
Enrollment/Eligibility Fee One Time	5,000							
Student Activity	2,000		2,000		2,000		2,000	
Library Fee	1,000		1,000		1,000		1,000	
ID Card Fee	200		200		200		200	
Total	**176,200**	**90,000**	**127,200**	**99,000**	**137,100**	**108,900**	**147,990**	**119,790**

FEE SCHEDULE OF 4 YEARS GENRIC BSN DEGREE PROGRAM
SESSION 2025-26

GSBN 04 YEARS	Year 1		Year 2		Year 3		Year 4	
	1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester
	PKR	PKR	PKR	PKR				PKR
Prospectus and Application Fee	Rs 5,000							
Admission Fee	Rs 30,000							
Semester Fee	Rs 108,000	Rs 108,000	Rs 120,000	Rs 120,000	Rs 132,000	Rs 132,000	Rs 140,000	Rs 140,000
University Fee	Rs 25,000							
Medical Examination Fee	Rs 5,000							
Security Deposit - Refundable	Rs 5,000							
University Registration Fee	Rs 1,500							
Pre Registration PNC	Rs 1,500							
Library Fee	Rs 1,000		Rs 1,000		Rs 1,000		Rs 1,000	
ID Card Fee	Rs 200		Rs 200		Rs 200		Rs 200	
Total	**Rs 182,200**	**Rs 108,000**	**Rs 121,200**	**Rs 120,000**	**Rs 133,200**	**Rs 132,000**	**Rs 141,200**	**Rs 140,000**

FEE SCHEDULE OF 2 YEARS POST RN BSN PROGRAM
SESSION 2025-26

Post RN BScN 02 YEAR	Year 1		Year 2	
	1st Semester	2nd Semester	3rd Semester	4th Semester
	PKR	PKR	PKR	PKR
Prospectus and Application Fee	Rs 5,000			
Admission Fee	Rs 30,000			
Semester Fee	Rs 96,000	Rs 96,000	Rs 108,000	Rs 108,000
University Fee	Rs 25,000			
Medical Examination Fee	Rs 5,000			
Security Deposit - Refundable	Rs 5,000			
University Registration Fee	Rs 1,500			
Pre Registration PNC	Rs 1,500			
Library Fee	Rs 1,000		Rs 1,000	
ID Card Fee	Rs 200		Rs 200	
Total	**Rs 170,200**	**Rs 96,000**	**Rs 109,200**	**Rs 108,000**

FEE SCHEDULE OF 1 YEAR ICU DIPLOMA PROGRAM
SESSION 2025-26

ICU - 01 YEAR	Year 1
	PKR
Form Fee	Rs 1,500
Admission Fee	Rs 15,000
Tuition Fee	Rs 74,000
Medical Examination Fee	Rs 3,000
Pre Enrollment Nursing Board	Rs 1,500
Pre Registration PNC	Rs 1,500
Examination Fee	Rs 3,500
Library Fee	Rs 1,000
ID Card Fee	Rs 200
Total	**Rs 101,200**

CODE OF CONDUCT

1. Students should refrain from conduct that might damage the reputation of the University. They must also avoid any conduct that may lead to the disruption of any academic program /activity of the Campus.
2. Students will show tolerance, understanding, and respect for the rights of others. in case of any misunderstanding with peers or university management, etc. discussions and exchange of views within the framework of decency and decorum would be the desirable course to follow. Threatening behavior to fellow students. faculty, staff. or the university as an institution could cause irrevocable dismissal from the University.
3. Students will be respectful to members of the opposite gender and v/ill refrain from any behavior that can be interpreted by others as 'gender harassment'.
4. Students are strictly reminded that gender mixing is permissible only within the accepted social and cultural norms of the society. Faculty tolerance should not be construed as an approval to undue intimacy or unacceptable proximity. openly or in isolated areas. Girls and boys are not allowed to sit next to each other in the classrooms labs, and library or outside.
5. It is the responsibility of all to keep the Campus environment clean and tidy. Therefore, no littering or trash should be carelessly thrown or left on the Campus premises. The designated waste bins should be used for the purpose.
6. The students are advised to refrain from any damage to the University fixtures / furniture including Venetian blinds, scribbling/carving on desks, writing on walls and misusing lab equipment. etc.
7. Smoking is not allowed on campuses. Anyone found smoking has to pay a fine.
8. Students are advised to switch off mobiles in classrooms. examination halls, labs and library so as not to disrupt the calm of the said places.
9. Students are advised to strictly follow the code of conduct on the field and off the field while taking part in sports and other extra curricular activities. Students are expected to exhibit exemplary behavior, especially while representing the university in an activity/competition.
10. Matters of indiscipline would be referred to the Campus Disciplinary Committee, which is authorized to reprimand or check any indiscipline. Parents of students who disobey authority and violate the code of conduct will be called to the university. Disciplinary Committee may suggest action to be taken for breaching code of conduct by the student.
11. Students must refrain from cheating, plagiarism, lying, stealing, and gender harassment, in any setting of the Campus. .

Dress Code

The students of the University are expected to dress keeping in view the local cultural values.

a. The students are not allowed to wear shorts or sleeveless shirts. The dress should not have any scripts or images, which appear to be provocative or indecent.

b. The students should not wear tight or see through clothes.

c. The students are not expected to put on heavy make up or expensive jewelry.

d. Clothes with photograph of any celebrity/political personality/or with unethical printed words are strictly not allowed.

e. Clothes should not pretend any influence towards any political or religious party.

1ST CONVOCATION OF INDUS COLLEGE OF NURSING, A GRAND SUCCESS!

The University of Modern Sciences, Tando Muhammad Khan, proudly hosted its **1st Convocation of Indus College of Nursing at Qazi Mazhar Hussain Auditorium**. It was a momentous occasion as **58 nursing graduates** received their degrees in the presence of distinguished guests and proud families.









The **Academic Procession** at the **1st Convocation of Indus College of Nursing, University of Modern Sciences** was led by esteemed dignitaries whose presence made the event truly remarkable:

- Bilal Ahmed Memon – Commissioner Hyderabad Division & Chief Guest
- Professor Dr. Jan Muhammad A. Memon – Patron-in-Chief, PAPL & Guest of Honor
- Dr. Muhammad Iqbal Memon – Chancellor
- Professor Dr. Feroz Memon – Vice-Chancellor
- Qazi Faiz Muhammad Talal – Pro Vice-Chancellor
- Eng. Qamar Zaman Memon – Rector
- Mr. Mushtaq Ally Qureshi – Registrar
- Nawaz Ali G. Bhutto – Controller of Examinations













STEP INTO YOUR FUTURE: TUMS ENTRANCE TEST 2025

The entry test for admissions in various departments of The University of Modern Sciences was successfully conducted. This year, the test was **Computer-based at our state-of-the-art Multi-Resource IT Lab**, ensuring a smooth, efficient, and modern examination experience for all participants.



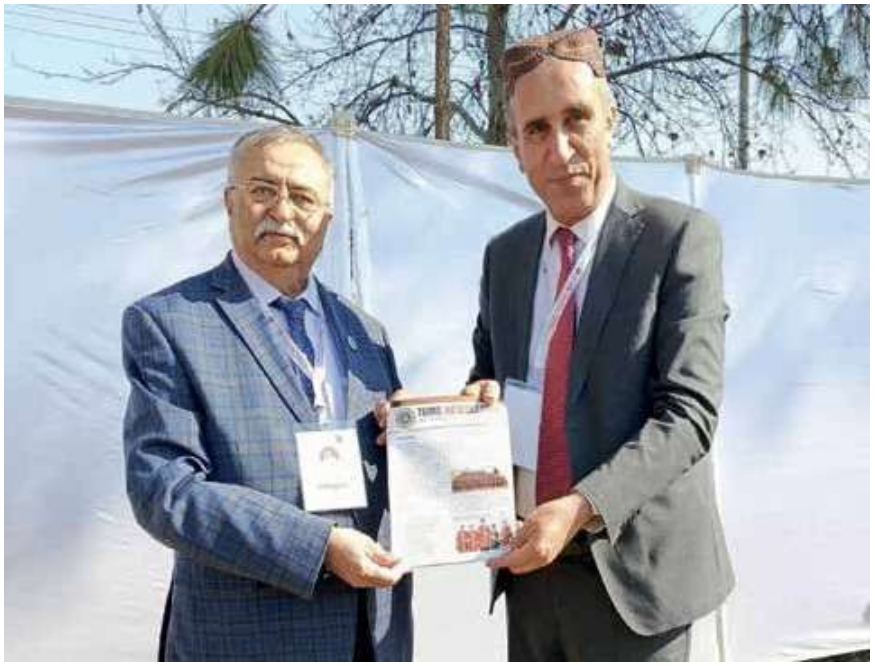






TUMS ENGAGES WITH INTERNATIONAL DELEGATES AT THE 5TH RECTOR'S CONFERENCE 2024

Dr. Muhammad Iqbal Memon, **Chancellor** of The University of Modern Sciences (**TUMS**), met with international delegations from various countries during the 5th Rector's Conference 2024, held on **January 22-23, 2025**, at **Serena Hotel and HEC Auditorium, Islamabad**.





During these interactions, **Dr. Iqbal Memon** shared the **vision and mission of TUMS**, highlighting its efforts to provide **quality education** and promote **socio-economic development** in rural Sindh. He also showcased the university's success stories and presented the latest edition of the TUMS Newsletter, featuring its recent achievements and milestones.

The **foreign delegates showed keen interest** in collaborating with TUMS in areas such as **academia, research, and community development**, paving the way for exciting new partnerships. TUMS remains committed to expanding its global footprint and fostering meaningful academic collaborations.







MOU SIGNING CEREMONY BETWEEN TUMS AND PIHS

On January 23, 2025, The University of Modern Sciences (TUMS), Tando Muhammad Khan, and Prime Institute of Health Sciences (PIHS), Islamabad signed a Memorandum of Understanding (MoU).

The MoU was signed by **Dr. Muhammad Iqbal Memon, Chancellor of TUMS**, and **Dr. Abdul Wajid, Chairman of PIHS**.

Also present were **Mr. Mohammad Nabeel Khan (Director QEC, TUMS) and Dr. Abdul Basit (Director, PIHS)**.

This partnership aims to improve health sciences education and research. Both institutes will work together to support students, teachers, and the community.









A JOURNEY BEGINS: ORIENTATION DAY 2025 OBSERVED AT TUMS & INDUS MEDICAL COLLEGE

A warm welcome to our new students! Under the leadership of **Chancellor Dr. Muhammad Iqbal Memon**, **Vice-Chancellor Prof. Dr. Feroz Memon**, and our esteemed **Patron-in-Chief Prof. Dr. Jan Muhammad A. Memon**, the Orientation Day was a memorable start to a new academic journey.









Guest of Honor was Mr. Shahzaib Shaikh, Deputy Commissioner TMK, also graced the event.
We congratulate all students beginning this new chapter - your path to knowledge, professionalism, and excellence starts now!









FACULTY DEVELOPMENT PROGRAM HELD AT THE UNIVERSITY OF MODERN SCIENCES-TUMS

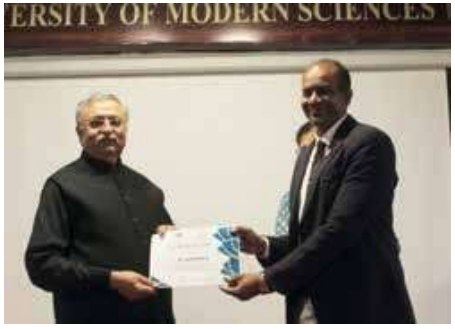
A comprehensive **Faculty Development Program** was successfully conducted under the leadership of **Professor Dr. Inayatullah Memon**, Head of the Department of Medical Education.






The session focused on enhancing teaching strategies, assessment methods, and academic professionalism. Faculty members actively participated and appreciated the valuable insights shared during the training. Such initiatives aim to promote a culture of continuous learning, quality teaching, and educational excellence across all departments.



TUMS STUDENTS CONDEMN INDIA'S SUSPENSION OF INDUS WATERS TREATY

The students of **The University of Modern Sciences – TUMS** strongly **condemn India's unilateral decision** to suspend the **Indus Waters Treaty** — a move that blatantly violates international law and jeopardizes **regional peace and cooperation.**





For decades, this treaty has served as a symbol of shared responsibility and diplomatic balance between Pakistan and India. Any attempt to politicize access to water — a **fundamental human right** — is deeply concerning and unacceptable.

We urge the international community to take notice and stand against this injustice.

We stand with Pakistan — for peace, fairness, and justice.

TUMS STUDENTS PARTICIPATED AT SINDH SPORTS OLYMPIAD 2025

The University of Modern Sciences–TUMS is proudly participating in the **Sindh Sports Olympiad 2025 at IBA Sukkur from 6–9 May**. With the support of **Chancellor Dr. Muhammad Iqbal Memon** and **Vice Chancellor Prof. Dr. Feroz Memon, TUMS** athletes are competing in **Cricket, Football, Chess, and Badminton**.











Special thanks to **Mr. Ghous Nawaz (Manager Sports)**, **Mr. Muzammil Talpur (Trainer)**, and **Mr. Mustuaan Ahmed Memon (Director Sports)** for their leadership and dedication.

TUMS STRONGLY CONDEMNS ACTS OF WAR AND AGGRESSION BY INDIA

Under the leadership of **Dr. Muhammad Iqbal Memon** (Chief Executive & Chancellor) and **Prof. Dr. Feroz Memon** (Vice Chancellor), **The University of Modern Sciences–TUMS** held a **peaceful protest** to denounce the ongoing acts of war and aggression by the Indian government under Prime Minister Narendra Modi.







As an institution dedicated to **education, peace, and humanity**, **TUMS** strongly condemns violence in any form. War brings only destruction and suffering. We urge the international community to uphold **justice, peace, and human rights.**





YOUM-E-TASHAKKUR CELEBRATION AT TUMS & INDUS MEDICAL COLLEGE

The University of Modern Sciences–TUMS and Indus Medical College held a **Youm-e-Tashakkur Celebration** to honor the success of **Operation Bunyan-un-Marsoos**. The event gathered district officials, law enforcement, media, faculty, students, and community leaders.



The program began with Qari Arshad Hashmi's recitation and the National Anthem by Akash Band, followed by patriotic songs.









Prof. Dr. Feroz Memon, Vice Chancellor, welcomed the guests. **Pir Aqib Jan Sarhandi, DSP Mujahid Baloch, Dr. Muhammad Ali (Former PMA President), Adv. Nadeem Qureshi (District Bar)**, and **Mr. Abdul Kareem Shaikh** (Press) praised the operation's success and the university's role. Students **Muskan Daniyal** (BS Radiology) and **Muhammad Shoaib** (MBBS) spoke in support of the **Pakistan Armed Forces**.








A cake-cutting, flag hoisting, and concluding address by Dr. Muhammad Iqbal Memon, Chancellor & CEO, reaffirmed the institution's commitment to unity, healthcare, and education.











EID GALA 2025: SHARING THE JOY OF CELEBRATION TOGETHER!

The University of Modern Sciences celebrated a vibrant and joyous **Eid Gala**, bringing together students, faculty, staff, and their families. The event was filled with delightful cultural performances, including music, poetry, and traditional dances. Participants enjoyed delicious Eid delicacies, fun-filled activities, and engaging interactive sessions, highlighting the spirit of unity, friendship, and togetherness. The Gala provided a wonderful opportunity for everyone to reconnect, unwind, and create lasting memories, truly embodying the essence of Eid celebrations.


















THE UNIVERSITY OF MODERN SCIENCES
INDUS MEDICAL COLLEGE
TANDO MUHAMMAD KHAN


INDUS MEDICAL COLLEGE
TANDO MUHAMMAD KHAN











Cheating Encompasses the following:

a. The willful giving or receiving of an unauthorized, unfair, dishonest or unscrupulous advantage in academic work over other students.

b. The above may be accomplished by any means whatsoever, including but not limited to the following: fraud; duress; deception; theft, trick; talking; signs; gestures; copying from another student; and the unauthorized use of study aids. memoranda, books, data, or other information.

c. Attempted cheating.

d. Calling proxy attendance.

Plagiarism encompasses the following:

a. Presenting as one's own the words, the work. or the opinions of someone else without proper acknowledgment. This includes material published on the Internet)

b. Borrowing the sequence of ideas, the arrangement of material or the pattern of thought of someone else without proper acknowledgment.

Stealing encompasses the following:

Taking or appropriating without the permission to do so, and with the intent to keep or to wrongfully use the property belonging to any member of the campus or any property located on the university campus. This includes but is not limited to misuse of university computer and other lab resources.

Lying encompasses the following:

Willful and knowledgeable telling of an untruth, as well as any form of deceit attempted deceit, or fraud in an oral or written statement relating to academic work This includes but is not limited to:

a. Lying to administration and faculty members

b. Falsifying any university document by mutilation, addition, or deletion.

c. Lying to Discipline Committee members and advisors during investigation and hearing. This may constitute a second charge, with the committee members who acted as judges during that specific hearing acting as accusers.

Gender harassment apart from others includes

a. Interference into a student's right to learn, study, work achieve, or participate in the Campus activities in a comfortable and supportive atmosphere.
b. Impolite or indecent comments, signs, gestures or looks and facial expressions
c. Spreading inappropriate rumors about any student
d. Attempts at starting personal conversation or taking undue liberty
e. Advances to harass, coerce, intimidate others

AFFIDAVIT

I _____S/O, DO _____

Muslim/Non Muslim adult R/o _____

a candidate for admission in 1st year _____ for academic session 2025-26 do hereby state on solemn affirmation / oath as under.

1. That If, I am allowed admission in _____ on merit seat of District _____, or otherwise against reserved seat under Self-finance or overseas on the basis of Domicile PRC, I shall not seek admission in any other Public / Private Sector Medical or Dental College / Universiiy or any other Degree College / University of the Country against any seat of other District.
2. That, all documents submitted by me along with application form are genuine and correct and no false document has been submitted. If any document / information are found to be false, incorrect or otherwise I know that my admission is liable to be cancelled.
3. For wasting precious seat of District Merit else I will not be entitled to issuance of any certificate from the Institution, That, after my Final selection/ Provisional Admission on Merit Self Finances/ Overseas category in five/ four years Degree Program of _____ I shall complete the Course/ Degree Program containing _____ semesters. However, in case, I leave the University of Modern Sciences, TMK before completion of the Course, I shall be liable to penalty of Rs.100,000/- (Rupees one Hundred Thousand / One Lac only) payable through Pay Order / Demand Draft in favour to _____, TUMS TMK.
4. That I also undertake not to involve myself in any kind of Political Activity throughout tenure in this university as a student and incase I am found involved in such activities the authority of the College / University shall be at liberty to expel rusticate me and to cencel my admission.
5. That. I also state that I have gone through all the rules, terms and conditions of the admission's, studies and declare that my priority of choice for Degree / Course is indicated in the Application Form.
6. That whatever is stated above is true and correct to the best of my knowledge and belief.

_____

Signature of the Deponent

C.N.I.C. No._____

The deponent named above is identified by me to the Commissioner for taking affidavit.

ADVOCATE

solemnly affirmed on oath this day of _____202_ at_____by deponent named above who is identified to me by Mr./ Ms. _____ Advocate whom I know. The contents were first truly and audibly read over and explained to the deponent in language who appears to have understood the same and put his/ her signature in my presence.

That I am a holder of P.R.C of District _____ in Sindh, which was issued on the basis of Domicile of District _____ issued to me / my father / mother, and I have no other PRC / Domicile of any other District in Sindh.

UNDERTAKING BY PARENTS / GUARDIANS

(TO BE TYPED ON STAMP PAPER OF RS. 100)

I. _____Parent / Guardian of _____ do hereby undertake and assure that my Son/ Daughter/ Sister/ Brother/ wife Ward will not join any political actively directly of indirectly throughout his/her career as student of Doctor of Physiotherapy Course.

I also understand that if my Son/ Daughter/ Sister/ Brother/ Wife/ Ward found involved in any political activity prejudice to moral character, I shall have no objection to his/ her prior examination rustication from the College / University, TMK. I also undertake further that after final Selection/ Provisional Admission in _____ course of my Son/ Daughter/ Sister/ Brother/' Wife/ Ward at the College/University, he / she will not be entitled to issuance of any certihcate from the College / University under the admission category of District Merit, Self-Finance and overseas Course of _____. However in case my Son/ Daughter/ Sister/ Brother/ Wife/ Ward leave/discontinues College/ University before completion of the Course. He/ She shall be liable to penalty of Rs. 100,000/- (Rupees One Hundred Thousand / One Lac) only payable through pay order/ Demand Draft to _____.

_____

Signature of Parent / Guardian

C.N.I.C. No._____

Full Address: _____

Contact

ATTESTATION BY JUDICIAL MAGISTRATE WITH ROUND STAMP / SEAL

THE UNIVERSITY OF MODERN SCIENCES

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Call: (+92)22 3409562 & 67, Email: info@ums.edu.pk
Website: https://ums.edu.pk/

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