



THE UNIVERSITY OF MODERN SCIENCES

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

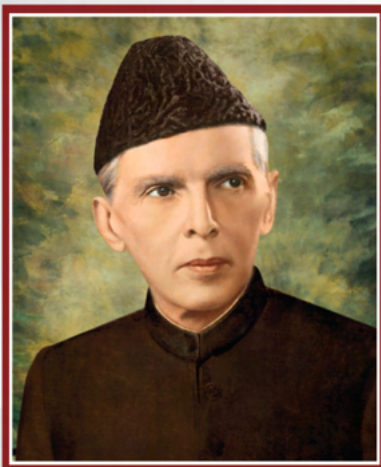
PROSPECTUS
2022-23

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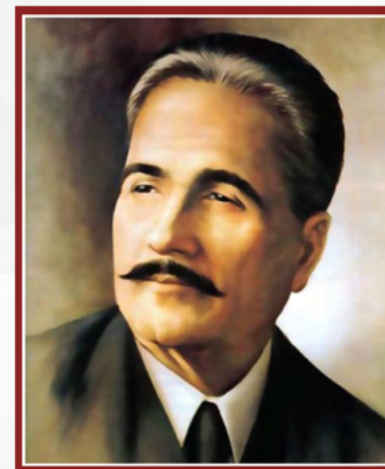


Quaid-e-Azam
MUHAMMAD ALI JINNAH
FOUNDER OF PAKISTAN

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 within 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 challenges, and spread Knowledge for a Better world.



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

DISCLAIMER

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





KAMRAN TESSORI
GOVERNOR SINDH



SYED MURAD ALI SHAH
CHIEF MINISTER SINDH



MEMBERS OF PROFESSIONAL ASSOCIATES

COMMUNITY MEDICINE SERVICES FOUNDATION



PRF. DR. JAN MUHAMMAD MEMON
MANAGING DIRECTOR



ENGR: QAMAR-U-ZAMAN
DEPUTY MANAGING DIRECTOR



ENGR: QAZI FAIZ MUHAMMAD
DEPUTY MANAGING DIRECTOR II



DR. MUHAMMAD IQBAL MEMON
DIRECTOR GENERAL



MR. SHAHZEB AZIZ
DEPUTY DIRECTOR GENERAL



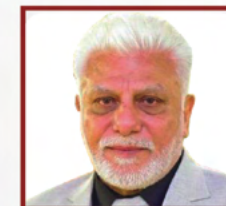
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DIRECTOR FINANCE



MR. MUHAMMAD FARHAN
DIRECTOR



MR. ABDUL RAFIQUE MEMON
DIRECTOR



MR. MUHAMMAD TOUFEEQU
DIRECTOR



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DIRECTOR



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DR. SHAHBUDDIN KALHORO
DIRECTOR



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

PRINCIPAL OFFICERS OF THE UNIVERSITY



DR. MUHAMMAD IQBAL MEMON
CHANCELLOR



PROF. DR. FEROZ MEMON
VICE CHANCELLOR



ENGR. QAZI FAIZ MUHAMMAD
PRO VICE CHANCELLOR



QAMAR-UZ-ZAMAN MEMON
RECTOR



MUSHTAQ ALLY QURESHI
REGISTRAR



NAWAZ ALI G. BHUTTO
CONTROLLER OF EXAMINATION





PATRON IN CHIEF MESSAGE

PROF. DR. JAN MUHAMMAD A. MEMON

The University of Modern Sciences was established in 2012 with primary Objective of developing good quality human resources that can cater the healthcare needs of our country. We aim to provide a holistic approach to medical education. During five years of stay with us, we endeavor to impart modern medical teaching with a view to make students elegant yet humble doctors and dentists, ready to face the challenges of serving the underserved population of our country. We provide top-notch academic facilities through our highly trained faculty, vast library and well-equipped laboratories besides essential facilities at teaching department, hostels and campuses.

From the coming academic year, we plan to initiate a fully integrated modular curriculum, encouraging our students to consider the patients in the settings of their surroundings and communities from the start of medical education. At the moment, we are focusing on improving our facilities at all the departments of the college. We have 500 Bedded Hospital , Modern and well-equipped hospital, with a view to provide better training to our students and affordable healthcare to people of Rural Areas Tando Muhammad Khan, Badin and Surroundings fulfilling the dream of our Founder-Patron in Cheif.



CHANCELLOR MESSAGE

DR. MUHAMMAD IQBAL MEMON

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 ranked amongst the top ten medical institutions in the country. As the Chancellor of The University of Modern Sciences, I am proud to lead the institution in fulfilling its commitment to improve the health 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.

With 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 the 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.



VICE-CHANCELLOR MESSAGE

PROF. DR. FEROZ MEMON



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 education and research in the Tando Muhammad Khan 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 ethos and values of quality assurance, transparency, merit, openness, accessibility, participatory approach and gaining public confidence are held supreme.



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23



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

Our Vision is to advance national health through teaching, research and service; foster innovation, to build and bring about fresh, creative solutions that address the health needs of the Pakistani society. To attract the best and brightest minds and train them as future national and international leaders, and in setting standards of excellence among faculty, staff and to recruit, retain, nurture and promote those who represent the best in the country.





INTRODUCTION OF TUMS

The University of Modern Sciences Located in Tando Muhammad Khan, Sindh, The University of Modern sciences 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. The University of Modern Sciences has been accredited to run course in various Faculties by HEC vide (Letter No. 15(62)/ HEC/ A&A/ Acc/ 2017/ 2089 dated August 10, 2021). Variety of courses are offered at The University of Modern Sciences.



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23



TUMS PROGRAMS OFFERS

UNDER GRADUATE PROGRAMS

THE UNIVERSITY OF MODERN SCIENCES

1.	Bachelor of Medicine & Bachelor of Surgery (MBBS)	05 Years
2.	Indus College of Physical Therapy-DPT	05 Years
3.	Indus College of Pharmacy-Pharm D	05 Years
4.	BS. Medical Laboratory Technology (MLT)	04 Years
5.	BS.Biochemistry	04 Years
6.	Bachelor in Business Administration (BBA)	04 Years
7.	BS.Radiologic Technology (BSRT)	04 Years
8.	BS.Forensic Sciences/Forensic Biology(BSFB)	04 Years
9.	Indus College of Nursing	
i.	Generic BSN Nursing	04 Years
ii.	Post RN BSN Nursing	02 Years

DIPLOMA PROGRAMS

INDUS COLLEGE OF NURSING

i.	Certified Nursing Assistant (CNA) Diploma	02 Years
ii.	Post Basic "Cardiac Nursing" Diploma	01 Year
iii.	Post Basic "ICU Nursing" Diploma	01 Year
10.	Diploma in CT Scan Technology	02 Years
11.	Diploma in X-Ray	01 Year
12.	Diploma in Blood Bank and Transfusion	01 Year
13.	Diploma in Ophthalmology Technician	02 Year
14.	Diploma in Dental Technician	02 Year
15.	Diploma in Refraction Technician	02 Year

POST GRADUATE MEDICAL CENTRE

INDUS MEDICAL COLLEGE



1.	Department of Obstetrics & Gynaecology	FCPS/MCPS
2.	Department of Paediatrics	FCPS/MCPS
3.	Department of ENT	FCPS/MCPS
4.	Department of Forensic Medicine	FCPS/MCPS
5.	Department of Community Medicine	FCPS
6.	Department of Physiology	FCPS
7.	Department of Medicine	FCPS
8.	Department of Surgery	FCPS





INTRODUCTION OF DOCTOR OF PHYSICAL THERAPY

Doctor of Physiotherapy (DPT Or Physical Therapy) five (05) years degree program started at Institute of Physical Therapy from the year 2022.

This Institute is well-equipped with modern facilities i.e. Lecture Halls, Medical Physics Lab, various Physio-Labs, Reading & Lending Library, Out Patient Department and comfortable atmosphere with Air-conditioners & 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 & update the knowledge of Faculty of IPRS & staff of OPD, organizing / conducting Continuous Medical Education (CME) & Workshops. There has been a change in the teaching & 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 Physiotherapy (DPT). The TUMS nevertheless is not left behind & is the first Private Sector Institute of Sindh Province to start the Doctor of Physiotherapy (DPT) five years degree program.



MISSION

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

1. Maintain the department's long tradition of leadership and excellence in physical therapy education.
2. Create innovative 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 of 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.



OBJECTIVES OF THE PROGRAM DPT

Graduates of the Doctor of Physical Therapy Program will:

1. Demonstrate in-depth knowledge of the basic and clinical sciences relevant to physical therapy, both in 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 clinician by developing and utilizing the process of critical thinking and inquiry, particularly focused on the improvement of the practice of physical therapy and the delivery of health care.
3. Engage in reflective practice through sound clinical decision making, critical self-assessment and commitment to lifelong learning.
4. Demonstrate mastery of entry level professional clinical skills. Provision of these services is based on the best available evidence and includes physical therapy



FACULTY OF INDUS COLLEGE OF DOCTOR OF PHYSICAL THERAPY



DR. NADEEM KHALID
PRINCIPAL

DR RAMA KUMARI



ACADEMIC PLANNER OF DPT

Minimum degree requirements: This program comprises a minimum of 200 credit hours.

YEAR 1 | First Semester

Course Code	Course title	Credit Hours
DPT-301	Anatomy- I	4 (3+1)
DPT-303	Physiology-I	3 (2+1)
DPT-305	Kinesiology-I	3 (2+1)
DPT-307	English-I (Functional English)	3 (3+0)
DPT-309	Pakistan Studies	2 (2+0)
DPT-311	Introduction to Physical Therapy & Rehabilitation	2 (2+0)
Total Credits		17

YEAR 1 | Second Semester

Course Code	Course title	Credit Hours
DPT-302	Anatomy-II	4 (3+1)
DPT-304	Physiology-II	3 (2+1)
DPT-306	Kinesiology-II	3 (2+1)
DPT-308	English-II (Communication Skills)	3 (3+0)
DPT-310	Islamic Studies/ Ethics	2 (2+0)
DPT-312	Information Systems & Computer Applications	3 (2+1)
Total Credits		18

YEAR 2 | First Semester

Course Code	Course title	Credit Hours
DPT-401	Anatomy-III	4 (3+1)
DPT-403	Physiology-III	3 (2+1)
DPT-405	Bio Mechanics & Ergonomics-I	3 (2+1)
DPT-407	English-III (Technical Writing & Presentation Skills)	3 (3+0)
DPT-409	Sociology	2 (2+0)
DPT-411	Molecular Biology & Genetics	2 (2+0)
DPT-413	Medical Physics-I	3 (2+1)
Total Credits		20

YEAR 2 | Second Semester

Course Code	Course title	Credit Hours
DPT-402	Anatomy-IV	4 (3+1)
DPT-404	Exercise Physiology	3 (2+1)
DPT-406	Bio Mechanics & Ergonomics-II	3 (2+1)
DPT-408	Biochemistry- I	3 (3+1)
DPT-410	Therapeutic Exercise & Techniques	3 (2+1)
DPT-412	Behavioral Science (Psychology & Psychiatry)	2 (2+0)
DPT-414	Medical Physics-II	3 (2+1)
Total Credits		21



YEAR 3 | First Semester

Course Code	Course title	Credit Hours
DPT-501	Pathology & Microbiology-I	3 (2+1)
DPT-503	Pharmacology & Therapeutics-I	3 (2+1)
DPT-505	Physical Agents & Electrotherapy-I	3 (2+1)
DPT-507	Biochemistry-II	3 (2+1)
DPT-509	Manual Therapy	3 (2+1)
DPT-511	Community Medicine & Rehabilitation	3 (3+0)
DPT-513	Supervised Clinical Practice-I	3 (0+3)
Total Credits		21

YEAR 3 | Second Semester

Course Code	Course title	Credit Hours
DPT-502	Pathology & Microbiology-II	3 (2+1)
DPT-504	Pharmacology & Therapeutics-II	3 (2+1)
DPT-506	Physical Agents & Electrotherapy-II	3 (2+1)
DPT-508	Education Techniques & Teaching Methodology	2 (2+0)
DPT-510	Human Development & Growth	2 (2+0)
DPT-512	Health Promotion & Wellness	3 (2+1)
DPT-514	Supervised Clinical Practice-II	3 (0+3)
Total Credits		19

YEAR 4 | First Semester

Course Code	Course title	Credit Hours
DPT-601	Medicine-I	3 (3+0)
DPT-603	Surgery-I	3 (3+0)
DPT-605	Radiology & Diagnostic Imaging	3 (2+1)
DPT-607	Musculoskeletal Physical Therapy	3 (2+1)
DPT-609	Biostatistics-I	3 (3+0)
DPT-611	Consultation, Screening, Delegation & Cultural Competency	2 (2+0)
DPT-613	Supervised Clinical Practice-III	3 (0+3)
Total Credits		20

YEAR 4 | Second Semester

Course Code	Course title	Credit Hours
DPT-602	Medicine-II	3 (3+0)
DPT-604	Surgery-II	3 (3+0)
DPT-606	Evidence Based Practice	3 (2+1)
DPT-608	Neurological Physical Therapy	3 (2+1)
DPT-610	Prosthetics & Orthotics	3 (2+1)
DPT-612	Biostatistics-II	3 (3+0)
DPT-614	Supervised Clinical Practice-IV	4 (0+4)
Total Credits		22



YEAR 5 | First Semester

Course Code	Course title	Credit Hours
DPT-701	Primary Care & Emergency Procedures in Physical Therapy	3 (2+1)
DPT-703	Cardiopulmonary Physical Therapy	3 (2+1)
DPT-705	Clinical Decision Making & Differential Diagnosis	3 (3+0)
DPT-707	Integumentary & Metabolic Physical Therapy	3 (2+1)
DPT-709	Professional Practice, Laws, Ethics & Administration	2 (2+0)
DPT-711	Scientific Inquiry & Research Methodology	3 (2+1)
DPT-713	Supervised Clinical Practice-V	4 (0+4)
	Total Credits	21

YEAR 5 | Second Semester

Course Code	Course title	Credit Hours
DPT-702	Obstetrics & Gynecological Physical Therapy	3 (2+1)
DPT-704	Pediatric Physical Therapy	3 (2+1)
DPT-706	Geriatric & Gerontology Physical Therapy	3 (2+1)
DPT-708	Sports Physical Therapy	2 (2+0)
DPT-710	Supervised Clinical Practice-VI	4 (0+4)
DPT-712	Project/Dissertation	6 (0+6)
	Total Credits	21



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 week throughout the semester.

Clinical:

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

Practical / Lab:

one credit hour shall be equal to two 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.

HOUSE JOB:

After graduation, DPT graduates will be absorbed for the House Job for period of one (01) year in the hospitals 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)

Semester Examination

SBOs _____	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 / Institute of Physiotherapy 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 (06) 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

1. Promotion from one academic year to next higher academic year.
2. 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 be allowed promotion to 2nd 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 1st 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 fall 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 & D will then be allowed re-sit examinations of 1st & 2nd Semesters simultaneously while they remain 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 & 2nd semester's examinations completely they will continue in 3rd Semester
2. Students who failed either in 1st 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(s) 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 IPRS, TUMS.

NOTE: This system applies to all the semesters in all the five years.



RULES OF ADMISSION

ELIGIBILITY CRITERIA:

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 Pakistan 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.

FORMULA FOR WORKING OUT THE OVERALL MERIT:

- | | |
|---|----------------------|
| a. HSC (Pre-Medical) / Equivalent Examination | 50% weightage |
| b. Entry Test | 50% weightage |
3. 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 seat shall be filled through maintaining of merit as per merit list Self-Finance category.
 4. The period of 45 days shall be countable from the commencement of classes of 1st year 1st semester of Academic Session 2022-2023.
 5. In case a seat/(s) fall/(s) vacant during first forty five (45) days of the academic year of admission session 2022-2023 the same shall be filled by adopting the aforesaid procedure, any seat falling vacant upto period of 45 days, it shall not be filled and same shall stand vacant/ forfeited.
 6. 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. Institute/ University reserve right to take legal action against the candidate.
 7. Candidate who is finally selected for admission on District Merit/ Self-Finance/ Overseas or any category shall have to pledge, through an affidavit that He/ She shall complete the course of Doctor of Physiotherapy (DPT) five (05) years. Incase He /she leaves the Institute (IPRS) 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.



FEE STRUCTURE DOCTOR OF PHYSICAL THERAPY

Fixed fee & Charges (In PKR)	Year 1	Year 2	Year 3	Year 4	Year 5	Total
Admission Fee	Rs. 50,000					Rs. 50,000
Tuition Fee Per Years	Rs. 270,000	Rs. 297,000	Rs. 326,700	Rs. 359,370	Rs. 395,307	Rs. 1,648,377
University Fee	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 125,000
Total	Rs. 345,000	Rs. 322,000	Rs. 351,700	Rs. 384,370	Rs. 420,307	Rs. 1,823,377

Other Fixed Charges	Amount In PKR
Security Deposit Refundable One Time	Rs 25,000
Health Insurance Each Year	Rs 3,000
Prospectus / Processing Fee One Time	Rs 3,000
Registration Fee Each Year	Rs 1,000
Student activity (Each Year)	Rs 2,000
Documents Verification Fee One Time	Rs 3,000
Library Fee Per Year	Rs 1,000
Enrollment/Eligibility Fee One Time	Rs 5,000
ID Card Fee	Rs 200

Other Optional Charges	Amount In PKR
Hostel Charges without Mess/Food Charges per month	Rs 20,000
Hostel Security Deposit (Refundable) one time	Rs 40,000
Transport Charges/Month	Rs 15,000
Air-conditioning and other Heavy electric gadgets	As per Consumption



INAUGURATION CEREMONY OF DPT





INDUS COLLEGE OF PHARMACY

MISSION

This Mission is to prepare pharmacy graduates and practitioners, advance research, deliver quality evidence-based patient-centered care, and provide service to the profession.

OJECTIVES

The objectives of doctor of pharmacy program are to prepare pharmacists who will have capacity, up-to-date knowledge, strong ethical values, behavior, communication writing and social skills that will enable them to pursue 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





MESSAGE

PROF. DR. ABDULLAH DAYO

PRINCIPAL | INDUS COLLEGE OF PHARMACY

The wind of Internationalization and globalization has become a major segment of comparative educational enquiry in all fields including the field of Pharmaceutical education. To respond to these expectations and challenges, the Indus College of Pharmacy visionaries have created the right infrastructure to pursue the need in pharmacy learning. The mission of Indus College of Pharmacy is to provide excellent education in a stimulating environment where delivery of superb pharmaceutical care is integrated with nationally and internationally recognized research. In order to achieve our mission, we apply innovative and proven educational methods to produce pharmacists who possess the skills and knowledge to serve their patients ethically and professionally.

The Indus College of Pharmacy has a vibrant staff who is known for discipline and dedication to prepare the young talents to be in right place to face expanding and enlarging pharma segment. A graduate in pharmacy has a lot of carrier opportunities within country and abroad.

Now it is an exciting time to embark upon the study of pharmacy. We appreciate your interest in our educational programs and we look forward for any questions you have concerning pharmacy education at the Indus College of Pharmacy.



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23



INDUS COLLEGE OF PHARMACY

ELIGIBILITY CRITERIA :

- HSSC (Intermediate Science) Pre-Medical/ A-Level or Equivalent, Min. 60% marks or equivalent only certified by IBCC
- Minimum passing marks in entry test shall be 25%
« Candidate's Domicile of Sindh

NUMBER OF SEATS & CATEGORIES OF SEATS

To be decided by the Pharmacy Council of Pakistan and the Academic Council of the University.



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

CURRICULUM

1ST PROFESSIONAL OF PHARM-D

Semester I

Course No.	Subject	Cr Hr
ENG - 300	English-A (F English)	2
PD - 301	Physical Pharmacy-I [Th]	3
PD - 303	Physical Pharmacy-I [Lab]	1
PD - 305	Pharmaceutical Mathematics	3
PD - 307	Pharmaceutical Organic Chemistry-I [Th]	3
PD - 309	Pharmaceutical Organic Chemistry-I [Lab]	1
PD - 311	Pharmaceutical Biochemistry-I [Th]	3
PD - 313	Pharmaceutical Biochemistry-I [Lab]	1
PD - 315	Physiology-I [Th]	3
PD - 317	Anatomy & Histology-I [Th]	2
	Total Credit Hours	22

Semester II

Course No.	Subject	Cr Hr
ENG - 301	English-B (Communication & Writing Skills)	2
PD - 302	Physical Pharmacy-II [Th]	3
PD - 304	Physical Pharmacy-II [Lab]	1
PD - 306	Pharmaceutical Organic Chemistry-II [Th]	3
PD - 308	Pharmaceutical Organic Chemistry-II [Lab]	1
PD - 310	Pharmaceutical Biochemistry-II [Th]	3
PD - 312	Pharmaceutical Biochemistry-II [Lab]	1
PD - 314	Physiology-II [Th]	3
PD - 316	Physiology-II [Lab]	2
PD - 318	Anatomy & Histology-II [Th]	2
PD - 320	Anatomy & Histology-II [Lab]	1
	Total Credit Hours	22



CURRICULUM

2ND PROFESSIONAL OF PHARM-D

Semester III

Course No.	Subject	Cr Hr
ISL - 400	Islamic Studies	2
PD - 401	Pharmaceutical Microbiology & Immunology-I [Th]	3
PD - 403	Pharmaceutical Microbiology & Immunology-I [Lab]	1
PD - 405	Pharmaceutical Preparation & Dosage form Science-I [Th]	3
PD - 407	Pharmaceutical Biostatistics	3
PD - 409	Pharmacology & Therapeutics - I [Th]	3
PD - 411	Pharmacology & Therapeutics - I [Lab]	1
PD - 413	General Pharmacognosy [Th]	3
PD - 415	Pharmacognosy - I [Lab]	1
	Total Credit Hours	20

Semester IV

Course No.	Subject	Cr Hr
PKS - 401	Pakistan Studies	2
PD - 402	Pharmaceutical Microbiology & Immunology-II [Th]	3
PD - 404	Pharmaceutical Microbiology & Immunology-II [Lab]	1
PD - 406	Pharmaceutical Preparation & Dosage form Science-II [Th]	3
PD - 408	Pharmaceutical Preparation & Dosage form Science-II [Lab]	2
PD - 410	Pharmacology & Therapeutics - II [Th]	3
PD - 412	Pharmacology & Therapeutics - II [Lab]	1
PD - 414	Pathology - I [Th]	2
PD - 416	Chemical Pharmacognosy [Th]	3
PD - 418	Pharmacognosy - II [Lab]	1
	Total Credit Hours	21



CURRICULUM

3RD PROFESSIONAL OF PHARM-D

Semester V

Course No.	Subject	Cr Hr
PD - 501	Pharmacology & Therapeutics - III [Th]	3
PD - 503	Pharmacology & Therapeutics - III [Lab]	1
PD - 505	Pathology - II [Th]	2
PD - 507	Pathology [Lab]	1
PD - 509	Pharmaceutical Analysis & Instrumentation-I [Th]	3
PD - 511	Pharmaceutical Analysis & Instrumentation-I [Lab]	1
PD - 513	Advance Pharmacognosy - I [Th]	3
PD - 515	Pharmacognosy - III [Lab]	1
PD - 517	Compounding & Dispensing Pharmacy [Th]	3
PD - 519	Compounding & Dispensing Pharmacy [Lab]	1
	Total Credit Hours	19

Semester VI

Course No.	Subject	Cr Hr
PD - 502	Pharmacology & Therapeutics - IV [Th]	3
PD - 504	Pharmacology & Therapeutics - IV [Lab]	1
PD - 506	Computer & its Application in Pharmacy [Th]	3
PD - 508	Computer & its Application in Pharmacy [Lab]	1
PD - 510	Pharmaceutical Analysis & Instrumentation-II [Th]	3
PD - 512	Pharmaceutical Analysis & Instrumentation-II [Lab]	1
PD - 514	Advance Pharmacognosy - II [Th]	3
PD - 516	Pharmacognosy - IV [Lab]	1
PD - 518	Community Pharmacy [Th]	3
	Total Credit Hours	19



CURRICULUM

4TH PROFESSIONAL OF PHARM-D

Semester VII

Course No.	Subject	Cr Hr
PD - 601	Hospital Pharmacy - I [Th]	3
PD - 603	Industrial Pharmacy - I [Th]	3
PD - 605	Industrial Pharmacy - I [Lab]	1
PD - 607	Pharmaceutical Quality Management - I [Th]	3
PD - 609	Pharmaceutical Quality Management - I [Lab]	1
PD - 611	Clinical Pharmacy - I [Th]	3
PD - 613	Clinical Pharmacy - I [Lab]	1
PD - 615	Clinical Pharmacognosy [Th]	3
PD - 617	Medicinal Chemistry - I [Th]	2
Total Credit Hours		20

Semester VIII

Course No.	Subject	Cr Hr
PD - 602	Hospital Pharmacy - II [Th]	3
PD - 604	Industrial Pharmacy - II [Th]	3
PD - 606	Industrial Pharmacy - II [Lab]	1
PD - 608	Pharmaceutical Quality Management - II [Th]	3
PD - 610	Pharmaceutical Quality Management - II [Lab]	1
PD - 612	Clinical Pharmacy - II [Th]	3
PD - 614	Clinical Pharmacy - II [Lab]	1
PD - 616	Medicinal Chemistry - II [Th]	3
PD - 618	Medicinal Chemistry - I [Lab]	1
Total Credit Hours		19



CURRICULUM

5TH PROFESSIONAL OF PHARM-D

Semester IX

Course No.	Subject	Cr Hr
PD - 701	Clinical Pharmacy - III [Th]	3
PD - 703	Clinical Pharmacy - III [Lab]	1
PD - 705	Pharmaceutical Technology - I [Th]	3
PD - 707	Forensic Pharmacy - I [Th]	2
PD - 709	Biopharmaceutics & Pharmacokinetics - I [Th]	3
PD - 711	Pharmaceutical Marketing & Management-I [Th]	3
PD - 713	Medicinal Chemistry - III [Th]	3
PD - 715	Medicinal Chemistry - II [Lab]	1
	Total Credit Hours	19

Semester X

Course No.	Subject	Cr Hr
PD - 702	Clinical Pharmacy - IV [Th]	3
PD - 704	Clinical Pharmacy - IV [Lab]	1
PD - 706	Pharmaceutical Technology - II [Th]	3
PD - 708	Pharmaceutical Technology [Lab]	2
PD - 710	Forensic Pharmacy - II [Th]	2
PD - 712	Biopharmaceutics & Pharmacokinetics - II [Th]	3
PD - 714	Biopharmaceutics & Pharmacokinetics [Lab]	2
PD - 716	Pharmaceutical Marketing & Management-II [Th]	3
	Total Credit Hours	19



SUMMARY OF COURSES	Cr. Hrs	Cr. Hrs	Cr. Hrs
1 ST PROFESSIONAL PHARM-D	22 SEMESTER I	22 SEMESTER II	44
2 ND PROFESSIONAL PHARM-D	20 SEMESTER III	21 SEMESTER IV	44
3 RD PROFESSIONAL PHARM-D	19 SEMESTER V	19 SEMESTER VI	44
4 TH PROFESSIONAL PHARM-D	20 SEMESTER VII	19 SEMESTER VIII	44
5 TH PROFESSIONAL PHARM-D	19 SEMESTER IX	19 SEMESTER X	44
TOTAL	100	100	200



ACADEMIC PROGRAM OF 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 is 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 to 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 "Organization 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

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 groups.

- 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 to 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 and 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 or 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 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 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.

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 the completely pass Pharm-D examina



FACILITIES OF DEPARTMENT OF PHARMACY

Facilities available:

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



FEE STRUCTURE DOCTOR OF PHARMACY

Fixed fee & Charges (In PKR)	Year 1	Year 2	Year 3	Year 4	Year 5	Total
Admission Fee	Rs. 50,000					Rs. 50,000
Tuition Fee Per Years	Rs. 270,000	Rs. 297,000	Rs. 326,700	Rs. 359,370	Rs. 395,307	Rs. 1,648,377
University Fee	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 125,000
Total	Rs. 345,000	Rs. 322,000	Rs. 351,700	Rs. 384,370	Rs. 420,307	Rs. 1,823,377

Other Fixed Charges	Amount In PKR
Security Deposit Refundable One Time	Rs 25,000
Health Insurance Each Year	Rs 3,000
Prospectus / Processing Fee One Time	Rs 3,000
Registration Fee Each Year	Rs 1,000
Student activity (Each Year)	Rs 2,000
Documents Verification Fee One Time	Rs 3,000
Library Fee Per Year	Rs 1,000
Enrollment/Eligibility Fee One Time	Rs 5,000
ID Card Fee	Rs 200

Other Optional Charges	Amount In PKR
Hostel Charges without Mess/Food Charges per month	Rs 20,000
Hostel Security Deposit (Refundable) one time	Rs 40,000
Transport Charges/Month	Rs 15,000
Air-conditioning and other Heavy electric gadgets	As per Consumption



FACULTY

PROF. ABDULLAH DAYO
PRINCIPAL

DR. SABIT ALI
ASSISTANT PROFESSOR

DR. NABEELA
LECTURER

DR. QURAT-UL-AIN
LECTURER

DR. NAYAB MEHBOOB
LECTURER

DR. WALI MUHAMMAD
LECTURER

DR. KANIZ-E-NABVI
LECTURER

DR. KANWAL ZAMAN
LECTURER

MR. FAYYAZ KHOSO
VISITING LECTURER

DR. ANUM AZIZ
VISITING LECTURER

DR. ISHRAT BEGUM
VISITING LECTURER

DR. FAIZA MEMON
VISITING LECTURER

MS. TASLEEMA
VISITING LECTURER



INSPECTION BY THE PHARMACY COUNCIL OF PAKISTAN



INSPECTION BY THE PHARMACY COUNCIL OF PAKISTAN



INSPECTION BY HEC





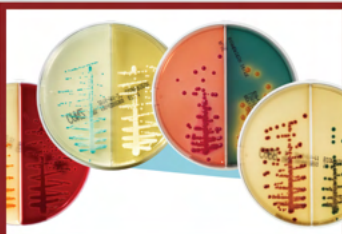
INTRODUCTION OF BS MEDICAL LABORATORY TECHNOLOGY (BS MLT)

AIMS

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.



Phlebotomy



Culture Plates In Microbiology



CBC



Analyzer



Fresh Frozen Plasma



MEDICAL LABORATORY TECHNOLOGY

SCHEME OF STUDIES FOR 4-YEARS BSMLT PROGRAM

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
FIRST PROFESSIONAL YEAR			
FIRST	BSMLT-311	Anatomy	02 + 1
	BSMLT-312	Biochemistry	03 + 1
	BSMLT-313	Physiology	03 + 1
	BSMLT-314	English Foundation	02 + 0
	BSMLT-315	Computer Skills	01 + 01
	BSMLT-316	Pakistan Studies	02 + 0
		Total	17
SECOND	BSMLT-321	Clinical Pathology I (Laboratory)	03 +03
	BSMLT-322	Microbiology I	03 + 02
	BSMLT-323	English II	02 + 0
	BSMLT-324	Laboratory Mathematics	02 + 0
	BSMLT-325	ISLAMIAT / Psychological Basic	02 + 0
		Total	17
SECOND PROFESSIONAL YEAR			
THIRD	BSMLT-331	Clinical Pathology-II (Laboratory)	03 +02
	BSMLT-332	Microbiology-II	03 + 01
	BSMLT-333	Clinical Chemistry-I	03 + 02
	BSMLT-334	Clinical Pharmacology	03 + 02
	BSMLT-335	Sociology	02 + 0
		Total	21
FOURTH	BSMLT-341	Haematology-I (Laboratory)	03 +02
	BSMLT-342	Histopathology-I	03 + 01
	BSMLT-343	Clinical Chemistry-II	03 + 02
	BSMLT-345	Microbiology-III	02 + 02
		Total	18



MEDICAL LABORATORY TECHNOLOGY

SCHEME OF STUDIES FOR 4-YEARS BSMLT PROGRAM

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
THIRD PROFESSIONAL YEAR			
FIFTH	BSMLT - 351	Quality Assurance	2+1
	BSMLT - 352	Hematology-II	3+1
	BSMLT - 353	Histopathology-II	3+1
	BSMLT - 354	Immunology -I	2+1
	BSMLT - 355	Fundamental of Infection Control	3+1
		Total	18
SIXTH	BSMLT - 361	Immunology-II	3+2
	BSMLT - 362	Immunohematology	3+1
	(BSMLT - 363)	Body fluid analysis	2+1
	(BSMLT - 364)	Clinical Practicum	6+0
		Total	18
FOURTH PROFESSIONAL YEAR			
SEVENTH	BSMLT - 371	Transfusion Medicine	3+2
	BSMLT - 372	Molecular Biology	2+2
	BSMLT - 373	Advances in Medical Laboratory	2+2
	BSMLT - 374	Cytology & Cytogenetics	3+2
		Total	18
EIGHTH	BSMLT - 381	Advance Clinical Pathology	3+1
	(BSMLT - 382	Health Care Management	3+1
	BSMLT - 383	Research Methodology & Principles	3+1
	BSMLT - 384	Research Project work	8+0
		Total	20

Total number of Credit hours **147**
 Semester duration **16-18 weeks**
 Semester **8**
 Course Load per Semester **15-18 Credit hours**
 Number of Courses per semester **4-6**



FACULTY OF SCIENCE & TECHNOLOGY

DEPARTMENT OF MEDICAL LABORATORY TECHNOLOGY (MLT)

PROF. DR. INAYATULLAH MEMON **PROFESSOR**

MBBS, MCPS, Postgraduate Diploma Telemedicine & e - Health, Postgraduate Diploma Biomedical Ethics, Master of Bioethics (AKU), Masters in Health Professions Education, Masters in Medical Science - Pathology (CSU-Australia)

PROF. DR. TAHIR AHMAD MUNIR **PROFESSOR**

B.Sc. , MBBS, FCPS - Physiology,
MRCP - General Medicine

DR. UMAIR ALI SOOMRO **ASSOCIATE PROFESSOR**

MBBS, M.Phil. - Hematology, Dip. In Lab Technology



FEE STRUCTURE

BS- MEDICAL LABORATORY TECHNOLOGY-MLT

Fixed fee & Charges (In PKR)	Year 1	Year 2	Year 3	Year 4	Total
Admission Fee	Rs. 20,000				Rs. 20,000
Tuition Fee Per Years	Rs. 150,000	Rs. 165,000	Rs. 181,500	Rs. 199,650	Rs. 696,150
University Fee	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 100,000
Total	Rs. 195,000	Rs. 190,000	Rs. 206,500	Rs. 224,650	Rs. 816,150

Other Fixed Charges	Amount In PKR
Security Deposit Refundable One Time	Rs 25,000
Health Insurance Each Year	Rs 3,000
Prospectus/Processing Fee One Time	Rs 3,000
Registration Fee Each Year	Rs 1,000
Student activity (Each Year)	Rs 2,000
Documents Verification Fee One Time	Rs 3,000
Library Fee Per Year	Rs 1,000
Enrollment/Eligibility Fee One Time	Rs 5,000
ID Card Fee	Rs 200

Other Optional Charges	Amount In PKR
Hostel Charges without Mess/Food Charges per month	Rs 20,000
Hostel Security Deposit (Refundable) one time	Rs 10,000
Transport Charges/Month	Rs 15,000
Air-conditioning and other Heavy electric gadgets	As per Consumption



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 BS 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 for the students who plan careers in research, teaching, or in health sciences professions that are medicine, pharmacy, and dentistry. Developments and discoveries in the fields 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.

CAREER PROSPECTS

- Graduates of this program can expect promising careers in the following roles and fields:
- Biomedical or Forensic Scientist
- Nanotechnologist
- Analytical Chemist
- Pharmacologist

ADMISSION CRITERIA

At least 45% marks or 2nd division in F.Sc. Pre-Medical/A-level (Biology, Chemistry, Physics) or equivalent.





STUDY PLAN OF BS BIO-CHEMISTRY

SEMESTER - 1

Code	Course Title	CH	Pre-req
EN-110	English-I	3	----
PH-105	Biological Physics	3+1	----
CS-101	Introduction to Computing	3	----
BC-101	Cell Biology	3	----
	Social Science Elective-I	3	----
Semester Credit Hours		16	

SEMESTER - 2

Code	Course Title	CH	Pre-req
EN-112	English-II	3	EN-110
MA-101	Calculus	3	----
BC-111	Classical Genetics	3	----
PH-106	Medical physics	3+1	PH-105
CH-101	Principles of Chemistry-I	3+1	----
Semester Credit Hours		17	

SEMESTER - 3

Code	Course Title	CH	Pre-req
EN-201	Communication Skills	3	EN-112
BC-201	Carbohydrates and Lipids	3+1	----
CH-102	Principles of Chemistry-II	3+1	CH-101
HM-150	Islamic Studies	3	----
	Social Science Elective-II	3	----
Semester Credit Hours		17	

SEMESTER - 4

Code	Course Title	CH	Pre-req
MA-150	Probability and Statistics	3	MA-101
SS-171	Pakistan Studies	3	----
BC-211	Amino Acids, Proteins & Nucleic Acids	4	----
CH-203	Principles of Chemistry-III	3	CH-102
BC-213	Microbiology	3+1	----
Semester Credit Hours		17	



SEMESTER - 5

Code	Course Title	CH	Pre-req
BC-301	Human Physiology	3	----
BC-302	Fundamentals of Forensic Sciences	3	----
BC-304	Immunology	3	----
BC-306	Enzymology	3	----
BC-307	Molecular Biology	3+1	----
Semester Credit Hours		16	

SEMESTER - 6

Code	Course Title	CH	Pre-req
BC-311	Analytical Techniques in Biochemistry	3+1	----
BC-312	Bioinformatics	3+1	CS-101
BC-313	Metabolism and Bioenergetics	3+1	----
BC-314	Clinical Biochemistry	3+1	----
BC-315	Environmental Biochemistry	3	----
Semester Credit Hours		18	

SEMESTER - 7

Code	Course Title	CH	Pre-req
BC-401	Nutritional Biochemistry	3+1	----
BC-402	Plant Biochemistry	3	----
BC-415	Seminar in Biochemistry	1	----
BC-xxx	Elective-I	3	----
BC-xxx	Elective-II	3	----
BC-xxx	*Senior Project-I/Elective Course/ Internship	3	----
Semester Credit Hours		17	

SEMESTER - 8

Code	Course Title	CH	Pre-req
BC-403	Biosafety & Ethics	3	----
BC-404	Industrial Biochemistry	3	----
BC-xxx	Elective-III	3	----
BC-xxx	Elective-IV	3	----
BC-xxx	*Senior Project-II/Elective Course/ Internship	3	----
Semester Credit Hours		15	

Total Credit Hours: 133



FACULTY OF BIOLOGICAL SCIENCES

DEPARTMENT OF BIOCHEMISTRY

PROF. DR. SHAH MUHAMMAD MAHESAR
PROFESSOR

M.Sc. Biochemistry, MPhil. Biochemistry,
Ph.D. Biochemistry

PROF. DR. SYED ALI AKBAR SHAH
PROFESSOR

MBBS, M. Phil Biochemistry & Ph.D. Biochemistry

DR. GHULAM MURTAZA RIND
ASSISTANT PROFESSOR

M. Sc. , Ph.D. Biochemistry

DR. SADIA QAMAR SAJJID
SENIOR LECTURER

B.Sc. , M.Sc. , Ph.D. Biochemistry

DR. MARVI SHAIKH
SENIOR LECTURER

B.Sc. , M.Phil. Biochemistry



FEE STRUCTURE BIOCHEMISTRY 4 YEARS PROGRAM

Fixed fee & Charges (In PKR)	Year 1	Year 2	Year 3	Year 4	Total
Admission Fee	Rs. 20,000				Rs. 20,000
Tuition Fee Per Years	Rs. 150,000	Rs. 165,000	Rs. 181,500	Rs. 199,650	Rs. 696,150
University Fee	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 25,000	Rs. 100,000
Total	Rs. 195,000	Rs. 190,000	Rs. 206,500	Rs. 224,650	Rs. 816,150

Other Fixed Charges	Amount In PKR
Security Deposit Refundable One Time	Rs 25,000
Health Insurance Each Year	Rs 3,000
Prospectus/Processing Fee One Time	Rs 3,000
Registration Fee Each Year	Rs 1,000
Student activity (Each Year)	Rs 2,000
Documents Verification Fee One Time	Rs 3,000
Library Fee Per Year	Rs 1,000
Enrollment/Eligibility Fee One Time	Rs 5,000
ID Card Fee	Rs 200

Other Optional Charges	Amount In PKR
Hostel Charges without Mess/Food Charges per month	Rs 20,000
Hostel Security Deposit (Refundable) one time	Rs 40,000
Transport Charges/Month	Rs 15,000
Air-conditioning and other Heavy electric gadgets	As per Consumption



BACHELOR OF BUSINESS ADMINISTRATION OVERVIEW

The 4-years 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 to 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.



Degree Requirements

For the award of BBA degree, a student must have:

- Passed courses totalling at least 130 credit hours, including all those courses which have been specified as Core courses.
- Obtained a CGPA of at least 2.00

Eligibility:

- At least 60% marks in SSC (Matric) or an equivalent examination (such as O-levels) AND
- Should have studied for HSSC or an equivalent qualification, for at least two years AND
- At least 50% marks in HSSC or an equivalent qualification

Selection Criteria:

- 50% weight to higher percent score of SSC (or an equivalent exam) OR HSSC (or an equivalent exam) AND
- 50% weight to marks obtained in Admission Test

TENTATIVE STUDY PLAN OF BBA

SEMESTER - 1

Sr. No.	Course Name	Crdt Hrs.
1	IT in Business	2+1
2	Fundamentals of Accounting	3+0
3	Business Math - I	3+0
4	Fundamentals of Management	3+0
5	English - I	3+1

SEMESTER - 2

Sr. No.	Course Name	Crdt Hrs.
1	Financial Accounting	3+1
2	Business Statistics	3+0
3	Marketing Management	3+0
4	Psychology	3+0
5	English - II	3+1



SEMESTER - 3

Sr. No.	Course Name	Crdt Hrs.
1	Microeconomics	3+0
2	Sociology	3+0
3	Management Accounting	3+0
4	Statistical Inference	3+1
5	Business Communication-I	3+0

SEMESTER - 4

Sr. No.	Course Name	Crdt Hrs.
1	Business Finance	3+0
2	Organizational Behaviour	3+0
3	Consumer Behaviour	3+0
4	Business Math - II	3+0
5	Macroeconomics	3+0

SEMESTER - 5

Sr. No.	Course Name	Crdt Hrs.
1	Financial Management	3+1
2	Operations Management	3+0
3	Human Resource Management	3+0
4	MG/AF/BA Elective - I	3+0
5	Management Information Systems	3+1

SEMESTER - 6

Sr. No.	Course Name	Crdt Hrs.
1	Financial Institutions & Markets	3+0
2	Business Law	3+0
3	Methods in Business Research	3+1
4	Islamic Studies/Ethics	3+0
5	Business Communication-II	3+0

SEMESTER - 7

Sr. No.	Course Name	Crdt Hrs.
1	Pakistan Studies	3+0
2	Strategic Management	3+0
3	Economy of Pakistan	3+0
4	Final Year Project - I	0+3
5	MG/AF/BA Elective - II	3+0
6	SS/MG Elective	3+0

SEMESTER - 8

Sr. No.	Course Name	Crdt Hrs.
1	Business Ethics	3+0
2	Entrepreneurship	3+0
3	Final Year Project - II	0+3
4	MG/AF/BA Elective - III	3+0
5	MG/AF/BA Elective - IV	3+0



FEE STRUCTURE BUSINESS ADMINISTRATION-BBA

Fixed fee & Charges (In PKR)	Year 1	Year 2	Year 3	Year 4	Total
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Air-conditioning and other Heavy electric gadgets	As per Consumption



BS - RADIOLOGY TECHNOLOGY

OVERVIEW

Radiology 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 Positron 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.



X-Ray



ULTRASOUND WITH
DOPPLER FACILITY



CT SCAN

The Profession calls for considerable technological expertise. Radiology Technologists 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.



ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE IN RADIOLOGIC TECHNOLOGY

- ✓ Well-structured degree program equivalent to BSC to be conducted over four regular semesters over a two years period consisting of 69 credit hours.

Our Mission:

- ✓ Program curriculum, teaching methods, and philosophy promote development of integrative, critical thinking, and communication skills to include written, oral, and electronic discourse;
- ✓ Graduate successfully pursue scholarly activities such as contributions to the profession and post-baccalaureate education; and,
- ✓ Encourage global awareness of cultural and health care perspectives.

The Radiologic Science Program prepares students to practice competently and effectively as medical imaging professionals in diverse healthcare environments with awareness of global health issues. The academic and clinical foundation in the curriculum develops graduates with professional flexibility and adaptability to assume prominent roles and responsibilities after graduation in both career and scholarly pursuits.

Goals:

Develop competent, effective, medical imaging professionals;

- ✓ Support development of skills necessary to practice in diverse healthcare environments and to acquire prominent roles in radiologic science;



BS RADIOLOGY TECHNOLOGY

SCHEME OF STUDIES FOR 4-YEARS BSRT PROGRAM

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
FIRST PROFESSIONAL YEAR			
FIRST	BSRT-411	Biochemistry – I	3+1
	BSR -412	Human Physiology – I	3+1
	BSRT-413	Human Anatomy – I	3+1
	BSRT-414	English – I	2+0
	BSRT-415	Pak Studies	2+0
	BSRT-416	Computer Skills	1+1
		Total	18
SECOND	BSRT-421	Biochemistry – II	3+1
	BSRT-422	Human Physiology – II	3+1
	BSRT-423	Human Anatomy – II	3+1
	BSRT-424	English – II	2+0
	BSRT -425	Islamic Studies	2+0
		Total	16
SECOND PROFESSIONAL YEAR			
THIRD	BSRT-431	Regional And Radiological Anatomy – I	2+1
	BSRT-432	General Radiology	2+1
	BSRT-433	Radiation Sciences and Technology	2+1
	BSRT-434	General Pathology	2+1
	BSRT-435	Clinical Pharmacology	2+1
	BSRT-436	Communication Skills	1+1
		Total	17
FOURTH	BSRT-441	Clinical Medicine – I	1+1
	BSRT-442	Regional And Radiological Anatomy – II	2+1
	BSRT-443	Conventional Radiology Procedures & Clinical Practice	2+2
	BSRT-444	Radiological Positioning & Clinical Practice	2+2
	BSRT-445	Computed & Digital Radiography (Cr & Dr)	1+1
	BSRT-446	Radiobiology & Radiation Protection	1+1
		Total	18



BS RADIOLOGY TECHNOLOGY

SCHEME OF STUDIES FOR 4-YEARS BSRT PROGRAM

Semester duration 16-18 weeks

Semesters 8

Course Load per Semester 15-18 Credit hours

Numbers of courses per semester 4-6

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
THIRD PROFESSIONAL YEAR			
FIFTH	BSRT-451	Computed Tomography (CT)	2+2
	BSRT-452	Mammography & Special Radiological Techniques	2+1
	BSRT-453	Magnetic Resonance Imaging (MRI)	2+2
	BSRT-454	General Surgery	1+1
	BSRT-455	Interventional Radiology	1+1
	BSRT-456	Clinical Medicine - II	1+1
		Total	17
SIXTH	BSRT-461	Radiological & Cross Sectional Anatomy	2+1
	BSRT-462	Computed Tomography (CT) Procedures & Clinical Practice	2+1
	BSRT-463	Magnetic Resonance Imaging (MRI) Procedures & Clinical Practice	2+1
	BSRT-464	Therapeutic Radiology	2+1
	BSRT-465	Biostatistics	2+1
	BSRT-466	Research Methodology	2+1
		Total	18
FOURTH PROFESSIONAL YEAR			
SEVENTH	BSRT-471	Clinical Sonography	2+2
	BSRT-472	Angiography and Cardiac Imaging	2+2
	BSRT-473	Nuclear Medicine	2+1
	BSRT-474	Echocardiography	1+1
	BSRT-475	Electrocardiography (ecg)	1+1
	BSRT-476	Clinical Pathology & Radiological Presentation	1+1
		Total	17
EIGHTH	BSRT-481	Patient Care & Management	2+0
	BSRT-482	Medical Sociology	2+0
	BSRT-483	Research Project	6+0
		Total	18

TOTAL CREDIT HOURS: 130



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

FACULTY OF BS RADIOLOGY TECHNOLOGY

PROF. DR. NIZAMUDDIN MEMON
PROFESSOR

DR. ADEEBA IQBAL
ASSOCIATE PROFESSOR

DR. YASIR AHMED
ASSISTANT PROFESSOR

DR. SHAHNILA KHALID
SENIOR REGISTRAR

DR. ALI RAZA
REGISTRAR



BS FORENSIC MEDICINE

Overview

The University of Modern Sciences BS Forensic Science focuses on the processing and analysis of physical evidence from crime scenes with a core emphasis on the application of analytical chemistry and other relevant fields while stressing the importance of quality assurance procedures in a professional setting. The faculty combines practical skills and the theoretical framework to develop students into sound professionals, enabling them to work in areas such as crime scene investigation, forensic science, and related laboratory areas.



FRAME WORK FOR BS IN FORENSIC BIOLOGY AND BS FORENSIC

CHEMISTRY & TOXICOLOGY (4 YEAR PROGRAMME)

Total number of Credit hours	124-140
Semester duration	16-18 weeks
Semester	8
Course Load per Semester	15-18 Credit hours
Number of Courses per semester	4-6 (not more than 3 lab / Practical courses)



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

BS FORENSIC MEDICINE

SCHEME OF STUDIES FOR 4-YEARS

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
FIRST PROFESSIONAL YEAR			
FIRST	ENG-300	English	3(3+0)
	FRNSC-310	College Algebra	3(3+0)
	FRNSC-311	Principles of Chemistry	3(3+0)
	FRNSC-312	Human anatomy-I	3(2+1)
	FRNSC-313	Medical Physiology-I	3(2+1)
	FRNSC-314	Information Technology	3(2+1)
		Semester Cr. Hr.	18
SECOND	ENG-301	English II	3(3+0)
	FRNSC-320	Calculus	3(3+0)
	FRNSC-321	Organic Chemistry	3(3+0)
	FRNSC-322	Human anatomy-II	3(2+1)
	FRNSC-323	Medical Physiology-II	3(2+1)
	FRNSC-324	Principles of Forensic Science	3(3+0)
		Semester Cr. Hr.	18
SECOND PROFESSIONAL YEAR			
THIRD	IS-402	Islamiyat	2(2+0)
	EB-402	Ethics[1]	2(2+0)
	ENG-400	English III / Communication skills	3(3+0)
	FRNSC-414	Forensic Entomology	3(2+1)
	FRNSC-411	Medical Biochemistry-I	4(3+1)
	FRNSC-412	Human Genetics	3(3+0)
	FRNSC-413	Forensic Psychology	3(3+0)
		Semester Cr. Hr.	18
FOURTH	PS-403	Pakistan Studies	2(2+0)
	FRNSC-420	Forensic Photography	3(3+0)
	FRNSC-425	Immunology	3(3+0)
	FRNSC-421	Medical Biochemistry-II	4(3+1)
	FRNSC-422	Molecular Biology	3(3+0)
	FRNSC-423	Digital Evidence Analysis	3(3+0)
		Semester Cr. Hr.	18



BS FORENSIC MEDICINE

SCHEME OF STUDIES FOR 4-YEARS

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
FIRST PROFESSIONAL YEAR			
FIFTH	FRNSC-511	Medical Pharmacology-I	3(3+0)
	FRNSC-512	Forensic Serology	3(2+1)
	FRNSC-413	Forensic Science in Court room	3(3+0)
	FRNSC-514	Forensic Anthropology	3(3+0)
	FRNSC-515	Crimanlistics and Crime Scene Investigations	3(3+0)
	FRNSC-517	Environmental Forensics	3(3+0)
		Semester Cr. Hr.	18
SIXTH	FRNSC-521	Medical Pharmacology-II	3(3+0)
	FRNSC-522	Forensic DNA Analysis	3(2+1)
	FRNSC-523	Forensic Medicine	3(2+1)
	FRNSC-524	Firearms and Tool marks Analysis	3(2+1)
	FRNSC-525	Forensic analysis of Fingerprints and Writing	3(2+1)
	FRNSC-527	Biosecurity and Microbial Forensics	3(3+0)
		Semester Cr. Hr.	18
SECOND PROFESSIONAL YEAR			
SEVENTH	FRNSC-610	Principles of toxicology	3(3+0)
	FRNSC-611	Medical jurisprudence	3(2+1)
	FRNSC-612	Forensic Computer Science Investigations	3(3+0)
	FRNSC-613	Ethical and Legal Issues in Forensic Science	3(3+0)
	FRNSC-615	Forensic Pathology	3(3+0)
		Semester Cr. Hr.	15
EIGHTH	FRNSC-620	Forensic Toxicology	3(3+0)
	FRNSC-621	Homicide Scene Investigations	3(3+0)
	FRNSC-622	Biostatistics	3(3+0)
	FRNSC-623	Forensic Quality Management System	1(1+0)
	FRNSC-624	Internship	3+0
		Semester Cr. Hr.	13



FACULTY OF BS FORENSIC MEDICINE

PROF. DR. GHULAM SARWAR PIRZADO
PROFESSOR

PROF. DR. AFZAL MEMON
PROFESSOR

DR. TUFAIL AHMED SOOMRO
ASSOCIATE PROFESSOR

DR. HAYA AFZAL
ASSISTANT PROFESSOR

DR. ZARA-UR-REHMAN
ASSISTANT PROFESSOR

DR. FAIZA AFTAB
LECTURER





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.

PHILOSOPHY

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.



PRINCIPAL MESSAGE

MAI SHEHNAZ KEERIO

INDUS COLLEGE OF NURSING



Dear Prospective Students

As the Principal of Nursing at Indus College Of Nursing, I welcome you to the Indus College of Nursing, which was established in 2021. To date, the college offers both, undergraduate and graduate nursing programs. You have made an excellent decision to select this college for your nursing studies.

The quality of our programs are among the best in the country, and we are committed to enhance it further.

All members of our faculty are competent, engaged in teaching, and scholarship. We believe in holistic approach to learning. Thus, to achieve the desired learning outcomes, students are taught in a conducive environment for learning, through a variety of teaching and learning strategies.

The Indus College of Nursing has a unique relationship with Indus Medical College Hospital which is Jointly Accredited. The IMCH provides not only excellent learning opportunities for practical skills, but also merit based sponsorships for students. Our collaborative relationship with IMCH encourages evidence-based practice in several ways. The Hospital is growing at a fast pace within and outside Interior Sindh Tando Muhammad Khan. Thus, the alumni have excellent employment opportunities upon their graduation.

We look forward to preparing nurses who will have the required knowledge and skills as well as strong ethical values and passion to serve the patients and their families whether in hospitals or in communities at large.



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

INTRODUCTION OF INDUS COLLEGE OF NURSING

OVERVIEW

Indus College of Nursing 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 roles. We are registered with Pakistan Nursing Council (PNC), Islamabad, and offer multiple diplomas, degrees and specialized courses in nursing.

The college is affiliated with The University of Modern Sciences Tando Muhammad Khan, Sindh.



LEARNING FACILITIES OF 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 part 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. After the initial training in Skills lab, the students are sent for 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 is well equipped with analytical laboratory techniques and equipments 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 access to Internet and Wi-Fi facilities in the library. Students also have access to the research articles and e-books.



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 Cowasjee Institute of Psychiatry, Mental Hospital, Hyderabad.



Computer Lab

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



LIFE AT INDUS COLLEGE OF NURSING

CO-CURRICULAR / EXTRA-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 & 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 Indus Medical College Hospital.



POST RN BSN (2 YEARS NURSING PROGRAM)

This is a 2 year program offered by the School 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 Science 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.

Courses of Study

The Post RN BS Nursing is a 2 year program comprising on 4 semesters of 64 credits. Courses taught during this program are:

Advance Concepts in Nursing -I. Adult Health Nursing (4 Credits)

The aim of the course is to enhance student's nursing knowledge and skills essential in caring for patients and their families in tertiary health care setting. The course focuses on enhancing the advance clinical skills of nursing assessment; analysis of client's nursing care needs, and implementing preventive and therapeutic nursing interventions based on physiological, psychosocial, cultural and spiritual concepts. In addition, the course also incorporates concepts and knowledge of anatomy and physiology, pathophysiology and pharmacology.

Advance Concepts in Nursing - II. Mental Health Nursing (4 Credits)

This course facilitates learners to apply principles of human behavior in providing insight into one's personal attitude, responses, cultural perception, value, beliefs about mental health and illness. It will enable the learners to identify client needs and provide holistic care by utilizing evidence based practice to individuals with mental health challenges. Moreover, the learner will be able to provide special attention to family and care taker. The course will improve the skills to work with multidisciplinary teams, liaising with psychiatrists, psychologists, occupational therapists, social workers and other mental health care professionals in promoting the mental health among people and communities at large.

Advance Concepts -III. Community Health Nursing (4 Credits)

This course enhances the knowledge and skills required for advance nursing practice in community setting. It will help the learner to develop ability to practice with communities by applying planning cycle with the integration of major concepts of community as a partner, health promotion across life span, and epidemiology and research. The course will also address global health, demography, and developmental issues in relation to the diverse roles of nurses in community health.



Biochemistry (2 Credits)

This course is intended to provide the health care professionals with an understanding of the major organic substances of living organisms Proteins, carbohydrates and lipids, their structure analysis and biochemical functions. It also provides an introduction to the chemistry of bioenergetics, metabolism, biosynthesis, and molecular biology.

Introduction to Biostatistics (2 Credits)

This course provides an introduction to basic statistical principles and their applications in varied aspects of scientific research studies. In addition, rules governing use of descriptive and inferential statistics are also explored.

Clinical Practical (6 Credits)

This course will enable learners to reflect and integrate previously learned concepts in various clinical settings. It will prepare learners for the advance practice of professional nursing in a variety of clinical settings. It responds to the needs of society by helping persons, families, and communities through therapeutic nursing care, which encompasses health teaching, health maintenance, and health promotion. The learner uses clinical judgment to assist clients in achieving optimal health and adapting to altered states of health.

Computer Skills & Information Technology (2 Credits)

The purpose of this course is to give learners a basic understanding of computers and describe the use of information technology in the modern world. Students learn how to use software programs which include Word, Excel, Power point and Outlook. Learners study computer applications in nursing education and practice.

Culture Health & Society (2 Credits)

This course facilitates students to explore the field of socio-cultural anthropology. It enhances student's understanding of values, beliefs and practices of different societies and their relationship to health and illness behaviors in general among specific groups living in societies. This course provides analysis of the relationship of culture, society and health care delivery system .It further promotes the exploration of trans-cultural concepts which will be promoted in the healthcare setting.



English I-IV (8 Credits)

The four courses in English aim to develop and enhance speaking, listening, reading and writing skills in general, academic and nursing contexts.

Introduction to Epidemiology (2 Credits)

This course is designed to provide the knowledge and skill to the learner for using epidemiological concepts in assessing the contributing factors, diagnosing, planning interventions and evaluating the results in the health care system. In addition the learner will be able to make inferences of the impact on population's demographics of social and health status in Pakistan. Learners will correlate epidemiological research findings to nursing practice.

Health Assessment (3 Credits)

This course aims at developing the skills and knowledge needed to assess the basic health status of individuals of varying ages and conditions. These skills can be applied to identify health problems and designing nursing care in a wide variety of clinical settings.

Islamic Studies (2 Credits)

The aim of this course is to provide Basic information about Islamic Studies, enhance their understanding regarding Islamic Civilization, improve their skills to perform prayers and worships and issues related to faith and religious life.

Leadership and Management (3 Credits)

This course provides concepts and principles of leadership and management and professional development in a health care system that fosters positive, creative and caring environment. It prepares nurses for assuming the role of leaders along with their effective application in a context that are considered important for professional nursing practice in contemporary world.

Pharmacology (3 Credits)

This course provides students with the opportunities to build concepts and knowledge about the altered Physiological mechanisms with integration of pharmacology including the impact on the functional status of the body. It also deals with the responses of the body that participate in manifestation of disease. This course will increase knowledge, skills and attitude towards pharmacodynamics and phamaco-kinetics in relation to disease process which impact on cellular function of the body.



Professional Development and Ethics (3 Credits)

This course is designed to provide the learner with an overview of basic concepts of ethics, its theory, principles, and norms. This course will raise awareness of factors that need to be considered when dealing with ethical decisions and affirm nursing as an ethically responsible profession. It will also provide a forum for learner to reflect upon issues or ethical dilemma which they identify during their clinical practice. Moreover, the course will help students to understand the dimensions of professional knowledge and development and the importance of ethics in their professional advancement.

Pakistan Studies (Compulsory) (2 Credits)

This course introduces the understanding of ideological background of Pakistan, process of governance, national development, issues arising in the modern age and posing challenges to Pakistan.

Research/ Evidence Based Elective Project (4 Credits)

This course will provide in depth knowledge, understanding and clinical application of evidence based clinical practice to enhance the advance practice of professional nursing in a variety of health care settings. It will enable the learners to respond the needs of society by helping persons, families, and communities through therapeutic nursing care. The learners use clinical judgment to assist the client in achieving optimal health and adapting to alter state of health.

Students are required to select a Practical experience related to their specified area of interest i.e. Clinical Education, Clinical Management, Health Care System and Occupational Health Nursing. This course will promote leadership qualities such as critical thinking, problem solving and decision making capabilities among students.

Introduction to Nursing Research (3 Credits)

This course is designed to stimulate scholarly inquiry. It focuses on developing understanding of scientific approach and methods of the research process and critical appraisal of existing nursing and related health literature. The course will enable nurses to critique qualitative and quantitative research and utilize research findings to apply research to practice, education and administration.



Principles of Teaching & Clinical Preceptorship (3 Credits)

This course will give students an insight of the basic concepts of teaching learning principles, clinical preceptorship and relationship between these two. It provides an opportunity for analyzing one's individual learning process and to promote strategies to facilitate learning of self and others. This course aims to provide students the knowledge, skills and attitudes necessary to become effective preceptors in clinical area and enables learners to become reflective practitioners in health education setting.

Introduction to Nursing Models & Theories (2 Credits)

This course focuses on introduction to theory and reasoning in nursing be introduced to several different theoretical frameworks in nursing and to the contributions of selected nurse theorists.



POST RN COURSE OUTLINE

Minimum degree requirements: This program comprises on minimum of 64 credit hours.

YEAR 1 | First Semester

Course Code	Course title	Credit hours	Contact hrs per Semester
SCBC -61121	Biochemistry	2 (1+3)	72
NUAH -61142	Advance Concepts in Nursing -I (Adult Health Nursing)	4 (2 +6)	144
NUHA- 61133	Health Assessment	3 (2+3)	90
SCPC -61134	Pharmacology	3 (3+0)	54
HUEN -61125	English I (Functional)	2 (2+0)	36
HUCS -61126	Computer Skills &Information Technology	2 (1+3)	72
	Total Credits	16	468

YEAR 1 | Second Semester

Course Code	Course title	Credit hours	Contact hrs per Semester
NUMH- 61241	Advance Concepts in Nursing(II) Mental Health	4 (2+6)	144
SMBS - 61242	Introduction to Biostatistics	2 (2+0)	36
SMEP- 61223	Epidemiology	2 (2+0)	36
HUCH- 61224	Culture Health &Society	2 (2+0)	36
NUNT- 61225	Introduction to Nursing Models &Theories	2 (2+0)	36
HUEN -61226	English II (Academics)	2 (2+0)	36
HUTP- 61237	Principles of Teaching and Clinical Preceptorship	3 (3+0)	54
	Total Credits	17	378



POST RN COURSE OUTLINE

Minimum degree requirements: This program comprises on minimum of 64 credit hours.

YEAR 2 | Third Semester

Course Code	Course title	Credit hours	Contact hrs per Semester
NUCH-62141	Advance Concepts III (CHN)	4 (2+6)	144
NUNR -62132	Introduction to Nursing Research	3 (3+0)	54
NUPD-62133	Professional Development and Ethics	3 (3+0)	54
HUPS -62124	Pak Studies	2 (2+0)	36
NULM -62135	Leadership and Management	3 (2+3)	90
HUEN -62126	English III (Professional writing)	2 (2+0)	36
Total Credits		17	414

YEAR 2 | Fourth Semester

Course Code	Course title	Credit hours	Contact hrs per Semester
NUNR -62241	Research/ Evidence based Elective project	4 (0+12)	216
NUCP -62262	Clinical Practicum	6(0+18)	324
HUEN -62223	English IV (Scholarly Writing)	2 (2+0)	36
HUIS - 62224	Islamic Studies/Ethics (For Non-Muslims)	2 (2+0)	36
Total Credits		14	612



FEE STRUCTURE

Post RN BScN 02 YEAR	Year 1		Year 2	
	1st Semester	2st Semester	3rd Semester	4th Semester
Prospectus & Application Fee	Rs. 3,000			
Admission Fee	Rs. 30,000			
Semester Fee	Rs. 60,000	Rs. 60,000	Rs. 72,000	Rs. 72,000
University Fee	Rs. 25,000			
Medical Examination Fee	Rs. 3,000			
Security Deposit Refundable	Rs. 5,000			
Total	Rs. 126,000	Rs. 60,000	Rs. 72,000	Rs. 72,000
	1st Year Total: Rs. 186,000		2nd Year Total: Rs. 144,000	
	Payable Before 15th July 2022	Payable Before 15th Dec 2022	Payable Before 15th July 2023	Payable Before 15th Dec 2023
Program Total Fee				Rs. 330,000

Other Fee & Optional Charges for all students	Amount in PKR
Hostel Charges without Mess / Food Charges per Month	Rs. 16,500
Air-Condition Charges	As per Consumption
Hostel Security Deposit (Refundable) one time	Rs. 40,000
Transport Charges / Month	Rs. 12,000
Health Insurance / Annum	As per Actual



SESSION 22-23

2 years Certified Nursing Assistant (CNA) Diploma

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 Applicant
- CNIC Copy of Father / Guardian
- Domicile PRC-Form C
- 05 Passport size photographs (White Background)

CNA - 02 Years	Year 1	Year 2
	PKR	PKR
Form Fee	Rs. 15,00	Rs. 15,00
Admission Fee	Rs. 20,000	Rs. 15,000
Tuition Fee	Rs. 60,000	Rs. 54,000
Medical Examination Fee	Rs. 3,000	Rs. 3,000
Security Deposit - Refundable	Rs. 5,000	Rs. 5,000
Total	Rs. 89,500	Rs. 78,500
	Payable Before 15th July 2022	Payable Before 15th July 2023
Program Total Fee	Rs. 78,500	Rs. 161,500

INDUS COLLEGE OF NURSING FEE STRUCTURE FOR ADMISSION 2022-23

Other Fee & Optional Charges for all students	Amount in PKR
Per Month	Rs. 20,000
Air-Condition Charges	As per Consumption
Hostel Security Deposit (Refundable) one time	Rs. 40,000
Transport Charges / Month	Rs. 15,000
Health Insurance / Annum	As per Actual



CERTIFIED NURSING ASSISTANT (CNA) OVERVIEW

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



SESSION 22-23

2 years Certified Nursing Assistant (CNA) Diploma

Criteria

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

Fee Structure (Per Year)

- | | |
|---------------------------------|-----------------|
| • Form Fees | 1,500/= |
| • Admission Fees | 20,000/= |
| • Tution Fees | 60,000/= |
| • Medical Examination Fees | 3,000/= |
| • Security Deposit (Refundable) | 5,000/= |
| • Total | 89,500/= |

Required Documents

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



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 year Basic Nursing Diploma Training

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



ETT



Echo



Patient With Echo



SESSION 22-23

1 years Post Basic "Cardiac Nursing" Diploma

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

CCU - 01 Years	Year 1
	PKR
Form Fee	Rs. 15,00
Admission Fee	Rs. 15,000
Tuition Fee	Rs. 54,000
Medical Examination Fee	Rs. 3,000
Security Deposit - Refundable	Rs. 5,000
Total	Rs. 78,500
	Payable Before 15th July 2022
Program Total Fee	Rs. 78,500

INDUS COLLEGE OF NURSING FEE STRUCTURE FOR ADMISSION 2022-23

Other Fee & Optional Charges for all students	Amount in PKR
Per Month	Rs. 20,000
Air-Condition Charges	As per Consumption
Hostel Security Deposit (Refundable) one time	Rs. 40,000
Transport Charges / Month	Rs. 15,000
Health Insurance / Annum	As per Actual



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 an 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 & Critical Care Nursing settings.

6. Demonstrate reflective skills on knowledge and skills in clinical practice and in situational decision making.



SESSION 22-23

1 years Post Basic "ICU Nursing" Diploma

Criteria

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

Fee Structure (Per Year)

• Form Fees	1,500/=
• Admission Fees	15,000/=
• Tutition Fees	54,000/=
• Medical Examination Fees	3,000/=
• Security Deposit (Refundable)	5,000/=
• Total	78,500/=

Required Documents

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



INDUS COLLEGE OF NURSING
FEE STRUCTURE
 FOR ADMISSION 2022-23

ICU - 01 Years	Year 1
	PKR
Form Fee	Rs. 15,00
Admission Fee	Rs. 15,000
Tuition Fee	Rs. 54,000
Medical Examination Fee	Rs. 3,000
Security Deposit - Refundable	Rs. 5,000
Total	Rs. 78,500
	Payable Before 15th July 2022
Program Total Fee	Rs. 78,500

Other Fee & Optional Charges for all students	Amount in PKR
Per Month	Rs. 20,000
Air-Condition Charges	As per Consumption
Hostel Security Deposit (Refundable) one time	Rs. 40,000
Transport Charges / Month	Rs. 15,000
Health Insurance / Annum	As per Actual



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

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

STUDENT OUTCOMES

Graduates completing the program will:

- Competently perform CT procedures to obtain diagnostic images.
- Provide appropriate patient care to CT patients.
- Demonstrate ALARA principles to ensure radiation safety.
- Communicate professionally with patients and members of the healthcare team.
- Perform and monitor quality assurance tests.
- Emphasizes the principles of exposure, image quality, patient care, radiation safety and other associated professional skills.
- Placement of clinical assignment is by program coordinator.



SCHEME OF STUDIES FOR 01-YEAR DCTT PROGRAM

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
FIRST PROFESSIONAL YEAR			
FIRST	DIPCT-211	General anatomy for imaging	2 + 1
	DIPCT-212	English - I	2 + 0
	DIPCT-213	Computer Skills	1 + 1
	DIPCT-214	CT procedure / Patient Care I	2 + 3
	DIPCT-215	CT Physics I	2 + 2
	Semester Cr. Hr.		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 Cr. Hr.		13

TOTAL CREDIT HOURS: 29 hr.



DIPLOMA IN X-RAY

The healthcare industry is expanding and professionals in various fields 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 film. 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 veni-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

Overview

Introduction

This program is intended for students who are willing to pursue their career in Blood Banking 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 Banking techniques.

ABOUT THIS PROGRAM

One year diploma in Blood Banking and Transfusion is a well-structured program having two regular semesters comprising 40 credit hours.



SCHEME OF STUDIES FOR 01-YEAR DBBT PROGRAM

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
FIRST PROFESSIONAL YEAR			
FIRST	DBT - 711	Blood Banking 1	03 + 04
	BBE - 712	English	2 + 0
	BBCS- 713	Computer Skill	1 + 1
		Semester Cr. Hr.	11
SECOND	DBT - 721	Blood Banking II	4 + 6
		Semester Cr. Hr.	10

TOTAL CREDIT HOURS: 21



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.



SCHEME OF STUDIES FOR 02-YEARS DOT PROGRAM

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
FIRST PROFESSIONAL YEAR			
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
		Total	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
		Total	12
SECOND PROFESSIONAL YEAR			
THIRD	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
		Total	13
FOURTH	DOT- 241	Sterlization (Viva Only)	0 + 4
	DOT- 242	Ocular Surgical Procedures	2 + 2
	DOT- 243	Optic and Refraction III (Viva only)	0 + 4
		Total	12

TOTAL CREDIT HOURS: 57



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

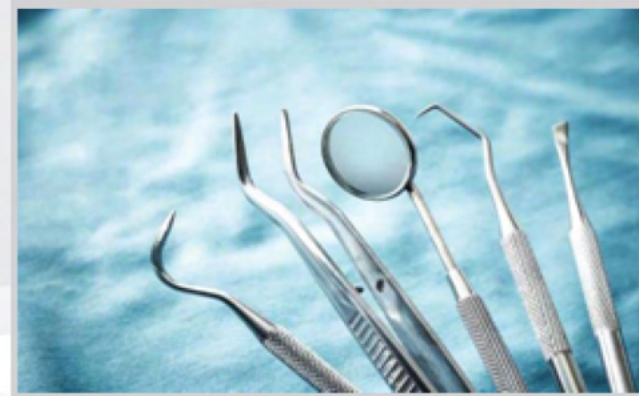
DIPLOMA IN DENTAL TECHNICIAN

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-YEARS DDT PROGRAM

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
FIRST PROFESSIONAL YEAR			
FIRST	DDT- 511	Dental Material	02 + 02
	DDT- 512	Physiology	02 + 01
	DDT- 513	Anatomy	02 + 01
	DDT- 514	Microbiology & Cross Infection Control	02 + 01
	DDT- 515	English	02 + 00
	DDT- 516	Computer Skills	01 + 01
		Total	17
SECOND	DDT- 521	Removable Prosthodontics (Partial Denture) (Laboratory)	03 + 03
	DDT- 522	Introduction of Dental Anatomy	04 + 0
	DDT- 523	Basic Dental Technology	02 + 0
	(DDT- 524	Sterilization and Disinfection	0 + 02
	DDT- 525	ISLAMIAT	02 + 0
		Total	16
SECOND PROFESSIONAL YEAR			
THIRD	DDT- 531	Lab Management Skills	02 + 0
	DDT- 532	Removable Prosthodontics(Complete Denture) (Laboratory)	03 + 03
	DDT- 533	Orthodontic Appliances (Laboratory)	02 + 02
	DDT- 534	Conservation Technology	02 + 0
	DDT- 535	Occlusion to Dental Laboratory procedures	02 + 0
		Total	16
FOURTH	DDT- 541	Maxillofacial Prosthodontics	0 + 02
	DDT- 542	Implant Prosthodontics	02 + 0
	DDT- 543	Fixed Prosthodontics	02 + 03
	(DDT- 544	Ceramic Lab	0 + 5
	DDT- 545)	Advances in Dental Technology	0 + 02
		Total	16

TOTAL CREDIT HOURS: 65



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 refractionist on the following topics.

- 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-YEARS DRT PROGRAM

SEMESTER/YEAR	COURSE #	NAME OF SUBJECT	CREDIT
FIRST PROFESSIONAL YEAR			
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
	Total		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
	Total		12
SECOND PROFESSIONAL YEAR			
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
	Total		13
FOURTH	DRT- 641	Practical Refraction	2+2
	DRT- 642	Surgical Procedures in Refraction	2+2
		Total	8

TOTAL CREDIT HOURS: 53



ELIGIBILITY 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 (IBCC) 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 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 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 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 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 safety and cleanliness in the patients' general surroundings. Hand washing is expected at all time in the clinical setting.

Anatomy & 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 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 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. (HCAP141)

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 information regarding patients and related work.

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 role 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.



**DIPLOMA CT SCAN TECHNOLOGY, OPHTHALMOLOGY TECHNICIAN, DENTAL
TECHNICIAN, REFRACTION TECHNICIAN 02 YEARS**

Period	Year 1	Year 2	Total Program
Admission Fee	Rs. 20,000		Rs. 20,000
Tuition Fee Per Years	Rs. 72,000	Rs. 79,200	Rs. 151,200
University Fee	Rs. 20,000	Rs. 25,000	Rs. 45,000
Total	Rs. 112,000	Rs. 104,200	Rs. 216,200

DIPLOMA IN X-RAY, BLOOD BANK AND TRANSFUSION

Period	Year 1	Total Program
Admission Fee	Rs. 15,000	Rs. 15,000
Tuition Fee Per Years	Rs. 72,000	Rs. 72,000
University Fee	Rs. 15,000	Rs. 15,000
Total	Rs. 102,000	Rs. 102,200

Other Fixed Charges	Amount In PKR
Security Deposit Refundable One Time	Rs 25,000
Health Insurance Each Year	Rs 3,000
Prospectus/Processing Fee One Time	Rs 3,000
Registration Fee Each Year	Rs 1,000
Student activity (Each Year)	Rs 2,000
Documents Verification Fee One Time	Rs 3,000
Library Fee Per Year	Rs 1,000
Enrollment/Eligibility Fee One Time	Rs 5,000
ID Card Fee	Rs 200

Other Optional Charges	Amount In PKR
Hostel Charges without Mess/Food Charges per month	Rs 20,000
Hostel Security Deposit (Refundable) one time	Rs 40,000
Transport Charges/Month	Rs 15,000
Air-conditioning and other Heavy electric gadgets	As per Consumption

INDUS COLLEGE OF NURSING
FEE STRUCTURE
FOR ADMISSION 2022-23



ACADEMIC EVENTS



LEADERSHIP EFFECTIVENESS WORKSHOP



STEM AND GENE THERAPY WEBNAR



BLS WORKSHOP FOR NURSING STUDENTS



NON ACADEMIC EVENTS



PAKISTAN RESOLUTION DAY | 23 MARCH

NON-ACADEMIC EVENTS



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

14TH AUGUST CELEBRATIONS



WORLD TEACHERS DAY



BOOK FAIR



INTERNATIONAL NURSING DAY



INTERNATIONAL NURSING DAY





THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

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 behaviour 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 will refrain from any behaviour 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 behaviour, especially while representing the University in an activity/competition.
10. Matters of indiscipline would be referred to the Campus Discipline 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 jewellery.
- 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.



Cheating Encompasses the following

- a. The wilful giving or receiving of an unauthorized, unfair, dishonest, or unscrupulous advantage in academic work over other students.
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.
- b. Attempted cheating.
- c. 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.
Falsifying any university document by mutilation, addition, or deletion.
- b. 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.
- c.

Gender harassment apart from others includes

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







THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN

PROSPECTUS 2022-23

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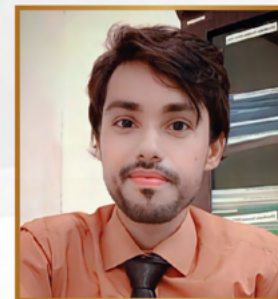


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AFFIDAVIT

I. _____ S/O, D/O _____

Muslim/Non-Muslim adult R/o _____

a candidate for admission in 1st year Doctor of Physiotherapy for academic session 2022-2023 do hereby state on solemn affirmation / oath as under:

1. That, I am a holder of **P.R.C** of District _____, 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.
2. That, if, I am allowed admission in Doctor of Physiotherapy 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 / University or any other Degree College / University of the Country against any seat of other District.
3. 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.
4. 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-Finance/ Overseas category in five years Degree Program of Doctor of Physiotherapy I shall complete the Course/ Degree Program of five years containing ten (10) semesters. However, in case, I leave the Institute of Physiotherapy (IPRS) TUMS 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 Institute of Physiotherapy & Rehabilitation Sciences (IPRS), TUMS TMK.
5. That, I also undertake not to involve myself in any kind of Political Activity throughout tenure in this institution as a student and incase, I am found involved in such activities, the authority of the Institute/ University shall be at liberty to expel/ rusticate me and to cancel my admission.
6. 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.
7. That, whatever is stated above is true & correct to the best of my knowledge & 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 _____ 2021
at _____ by deponent named above who is identified to me by Mr./ Ms. _____ Advocate
whom I know. The contents were first truly & audibly read over & explained to the deponent in _____
_____ language who appears to have understood the same & put his / her signature in my presence.

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 activity directly or 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 Institute of Physiotherapy & Rehabilitation Sciences, TUMS TMK. I also undertake further that after final Selection/ Provisional Admission in Doctor of Physiotherapy Course of my Son/ Daughter/ Sister/ Brother/ Wife/ Ward at the Institute of Physiotherapy & Rehabilitation Sciences, TUMS, he / she will not be entitled to issuance of any certificate from the Institute under the admission category of District Merit, Self-Finance and Overseas Course of Doctor of Physiotherapy. However in case my Son/ Daughter/ Sister/ Brother/ Wife/ Ward leave Institute (IPRS) TUMS TMK/ discontinues 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 Institute of Physiotherapy & Rehabilitation Sciences (IPRS) TUMS.

Signature of Parent / Guardian

C.N.I.C. No. _____

Full Address: _____

Contact No: _____

ATTESTATION BY JUDICIAL MAGISTRATE. WITH ROUND STAMP / SEAL

AFFIDAVIT

I. _____ S/O, D/O _____

Muslim/Non-Muslim adult R/o _____

a candidate for admission in 1st year Doctor of Pharmacy (Pharm-D) for academic session 2022-2023 do hereby state on solemn affirmation / oath as under:

1. That, I am a holder of **P.R.C** of District _____ in Sindh issued to me / my father / mother, and I have no other PRC / Domicile of any other District in Sindh. That, if, I am allowed admission in Pharmacy (Pharm-D) 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 / University or any other Degree College / University of the Country against any seat of other District.
3. 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.
4. 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- Finance/ Overseas category in five years Degree Program of Pharmacy (Pharm-D) I shall complete the Course/ Degree Program of five years containing ten (10) semesters. However, in case, I leave the College of Pharmacy TUMS TMK before completion of the Course, I shall be liable to penalty of **Rs. 250,000/- (Rupees Two Lacs and Fifty Thousand)** only payable through Pay Order / Demand Draft in favor to College of Pharmacy, TUMS TMK.
5. That, I also undertake not to involve myself in any kind of Political Activity throughout tenure in this institution as a student and incase, I am found involved in such activities, the authority of the Institute/ University shall be at liberty to expel/ rusticate me and to cancel my admission.
6. 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.
7. That, whatever is stated above is true & correct to the best of my knowledge & 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 _____ 2022
at _____ by deponent named above who is identified to me by Mr./ Ms. _____ Advocate
whom I know. The contents were first truly & audibly read over & explained to the deponent in _____
_____ language who appears to have understood the same & put his / her signature in my presence.

Attestation
1st Class Magistrate

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 activity directly or indirectly throughout his/ her career as student of Doctor of Pharmacy (Pharm- D) 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 of Pharmacy, TUMS TMK. I also undertake further that after final Selection/ Provisional Admission in Doctor of Pharmacy (Pharm-D) Course of my Son/ Daughter/ Sister/ Brother/ Wife/ Ward at the College of Pharmacy, TUMS, he / she will not be entitled to issuance of any certificate from the Institute under the admission category of District Merit, Self- Finance and Overseas Course of Doctor of Pharmacy (Pharm-D). However in case my Son / Daughter / Sister / Brother / Wife / Ward leave College of Pharmacy TUMS TMK / discontinues before completion of the Course. He / She shall be liable to penalty of **Rs. 250,000/- (Rupees Two Lacs and Fifty Thousand)** only payable through pay order / Demand Draft to College of Pharmacy TUMS .

Signature of Parent / Guardian

C.N.I.C. No. _____

Full Address: _____

Contact No: _____

(Parent/Guardian)

UNDERTAKING

I Mr / Ms _____ S/O, D/O _____

Address: _____

Solemnly declare that all the particulars mentioned in the Application Form are TRUE and CORRECT and I fully understand that if any of the statements made in the application is found to be incorrect or any document produced. This form is found false/fake/fabricated, I would be liable to refusal for admission to the institution, if otherwise eligible for admission and admitted, would be liable to be expelled from the institution at any time during the course of my studies in which case all fee and other dues paid by me to the institution shall be forfeited and shall be debarred from admission for a period of 4 years besides initiation of any action under law including criminal proceedings against me.

1. I have gone through the (NEC) Higher Education Commission Rules and Regulations 2018 and I undertake to abide by all conditions.
2. I also solemnly declare that, if admitted, I will abide by the discipline, rules, and regulations of the institution as enforced at present and made from time to time by the institution authorities in future. I will concern myself only with the academic activities and such extracurricular activities, which are allowed by the institution for the healthy growth of body and mind. I undertake that I will not take part in any political activity or agitation and I will not become a member of any student wing of political, sectarian or caste-based parties of Pakistan. In matters of discipline, the decision of the head of the institution will be final and binding on me and I will not challenge that decision in any court of law in the country. I will be regular in paying institution's dues and will be punctual in attending my classes. I will not absent myself from teaching programmes without prior permission of the authority.
3. I undertake that so long as I am a student of the institution, I will do nothing either inside or outside the institution, University campus, hostels and hospital premises that may interfere with its orderly administration and discipline or may bring the institution or its administration into disrepute.
4. I understand that the choices for University/institutes submitted by me in this Application Form are final and no subsequent change is permissible.
5. I agree that submission of this Application Form does not confer any right on me in respect of selection for admission, which shall only be granted on merit.
6. I understand that in case of failure to join the University or deposit fee by due date, my admission shall stand cancelled automatically.
7. I solemnly declared that if admitted to private institutions, I shall submit a wealth statement of either parent/guardian equivalent to four years tuition fee, income tax return of either parent/guardian and shall also submit insurance certificate to ensure the payment of fees for the remaining duration of the course in case of demise of parent/guardian.

(Signatures of Father / Guardian)

(Signatures of the Applicant)

(Name of the Applicant)

Father /Guardian Name: _____

CNIC No: _____

CNIC No: _____

Thumb Impression

Phone No. _____

Dated: _____

(Left Thumb for Male and Right for Female)

AFFIDAVIT

I. _____ S/O, D/O _____

Muslim/Non-Muslim adult R/o _____

Laboratory Technology for the academic session 2021-2022 do hereby state on solemn affirmation/oath as under:

1. That if I am allowed admission in at The University of Modern Sciences. Tando Muhammad Khan, I shall abide by the discipline, rules & regulations of the institution as enforced at present and made from time to time by the institution authorities in future, and also rules & regulations of Higher Education Commission and the University.
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 is found to be false, incorrect or otherwise I know that my admission is liable to be cancelled.
3. That after my final admission/ provisional admission at The University of Modern Sciences, Tando Muhammad Khan in Medical laboratory Technology, I will obey the order of administration of The University of Modern Sciences and be regular & punctual in attending the classes.
4. That I also undertake not to involve myself any kind of political activity and misconduct throughout my tenure in this institution as a student and in case I am found involved in such activities, the authority of the institution shall be at liberty to expel / rusticate me and to cancel my admission or can impose fine upon me.
5. That if I fail to pay the tuition fee within prescribed time, the institution may cancel my admission and not to submit my examination form to the University.
6. That I also state that have gone through all the rules, terms and conditions of the admissions, studies.
7. That whatever is stated above is true & correct to the best of my knowledge, belief & information.

Signature of the Deponent

C.N.I.C. No. _____

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

ADVOCATE

Solemnly affirmed on oath this day _____ of _____ 20 _____

at _____ by deponent named above who is identified to me by Mr. Ms _____

S/O, D/O _____ Advocate whom I know. The contents were first truly & audibly read over & explained to the deponent in language who appears to have understood the same & ph/Signature in my presence.

Attestation _____
1st Class Magistrate



THE UNIVERSITY OF MODERN SCIENCES

TANDO MUHAMMAD KHAN, SINDH

ACADEMIC SESSION 2021-2022

ADMISSION FORM FOR _____

NOTE: ** Incomplete and incorrect information will disqualify the candidate from the admission process. once you enter the information it would not be editable so, fill this form with concentration.

CANDIDATE PERSONAL INFORMATION

Name: WRITE YOUR FULL NAME IN BLOCK LETTERS AS MENTIONED IN MATRIC CERTIFICATE		Father's Name: WRITE YOUR FULL NAME IN BLOCK LETTERS AS MENTIONED IN MATRIC CERTIFICATE		Surname/Family Name: WRITE IN BLOCK LETTERS AS MENTIONED IN MATRIC CERTIFICATE	
CNIC/Form-B Number: WRITE YOUR (CNIC) NATIONAL ID CARD/FORM B NUMBER WITHOUT DASHES FROM INDIA		Date of CNIC issue:		Date of birth: WRITE AS SHOWN IN YOUR MATRIC CERTIFICATE	
Nationality:		Religion:			
Gender:	☐ Male ☐ Female	Marital Status:	☐ Married ☐ Single		
Do you have any disability?	☐ Yes ☐ No	District of Domicile & PRC: APPENDIX XXV FORM 10		Domicile No:	
Date of Issue:		Domicile Province:		P.R.C Number:	
Present Address:		City:		Tehsil/Taluka:	
District:		Province:		Permanent address: AS PER (CNIC)	
City:		Tahsil/taluka:		District:	
Province:					
Whatsapp no. for online classes:		Cell no:		Email address:	
Cell no:					

CONTACT INFORMATION (MAILING, POSTAL ADDRESS)

address: (Send to Letter by Post)	City:	Tahsil/taluka:
District:	Province:	Cell no:
Cell no:		

PARENTS INFORMATION

Father's Name:	Surname: (IN BLOCK LETTERS)	Date of birth:
CNIC no:	CNIC date of issue:	CNIC date valid up to:
Domicile no: (APPENDIX-XX)	Domicile date of issue:	Occupation:
Designation:	Department/Organization:	Office address:
Office tel no:	City:	District:
E-mail address:	Cell no:	
Mother's Name:	CNIC:	CNIC Date of issue:
CNIC Valid up to:	Domicile no: (APPENDIX-XX)	Domicile Date of Issue:
Cell no:	Residence Tel no:	

NOTE: *CNIC Father, if father is not alive then Mother.

* * Domicile of Mother, if father is not alive then Mother (along-with Death Certificate issued by NADRA)

TAXPAYER INFORMATION

Name:	Relationship:	Surname:
Date of birth:	CNIC:	CNIC Date of Issue:
CNIC Date valid up to:	NTN no.	Email address:
Cell no:		

NOTE: Please indicate the name of the person who shall claim your Tax Payment. (Only Parent or guardian)

GUARDIAN INFORMATION (in case of Guardian)

Guardian's Name: (IN BLOCK LETTERS)	Relationship:	Surname: (IN BLOCK LETTERS)
Date of birth:	CNIC no: (FROM NADRA)	CNIC date of issue:
CNIC date valid up to:	Domicile no: (APPENDIX-XX)	Domicile date of issue:
Occupation:	Designation:	Department/Organization:
Office address:	Office Tel no:	City:
District:	Province:	Email address:
Cell no:		

ACADEMICS QUALIFICATION

MATRIC/O'LEVEL DETAILS

Seat No:		Passing Year:		Annual/Supp:	
Total Marks Obtained:		Total Marks of Matric:		Division/Grade:	
Obtained Percentage:		IBCC Equivalence Certificate (for O levels):	☐ Yes ☐ No	Name of board:	
Name of school:					

INTERMEDIATE/A'LEVEL DETAILS

Seat No:		Passing Year:		Annual/Supp:	
Total Marks Obtained:		Total Marks of Matric:		Division/Grade:	
Obtained Percentage:		IBCC Equivalence Certificate (for O levels):	☐ Yes ☐ No	Name of board:	
Name of College:					

DECLARATION:

☐ I agree, if admitted to the Indus Medical College to comply with college Rules & Regulations. I certify that the information in the application form is true, correct and complete in all respects and that I have not concealed any information and I understand that misrepresentation, falsification of documents or withholding of information are serious offences which can result in denial of admission or any removal from institution and I am responsible for any of the information provided.

Signature of Parents/Guardian:

Signature of Candidate:

FOR OFFICIAL USE ONLY (DO NOT WRITE IN THIS SPACE)

Complete	Incomplete	Provisional
DD/Bankers Cheque no:		Date:
Name of Bank:		

APPLICATION RECEIVED BY

Name:	Designation:
Signature & Date:	Date of Admission:



PROSPECTUS 2022-23



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+92 22 3409562-67



THE UNIVERSITY OF MODERN SCIENCES
TANDO MUHAMMAD KHAN, SINDH, PAKISTAN



PROSPECTUS 2022-23