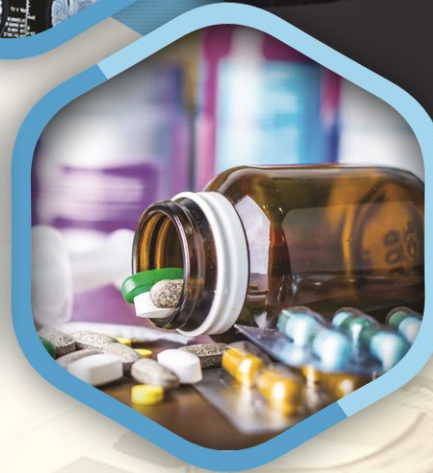




LIAQUAT UNIVERSITY
OF MEDICAL & HEALTH SCIENCES
JAMSHORO

GATEWAY TO A
BRIGHTER FUTURE




UNDERGRADUATE **PROSPECTUS** **ACADEMIC SESSION 2025- 26**


BS [DEGREE & DIPLOMA] PROGRAMMES

- Doctor of Physical Therapy
- Doctor of Pharmacy
- Nursing (Generic)
- Molecular Biology & Genetics
- Biomedical Engineering
- Business & Information Technology
- Health Informatics & Management System
- Physician Associate
- Technology Degree & Diploma Programs

**FOR FURTHER INFORMATION &
QUERIES**

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 www.lumhs.edu.pk

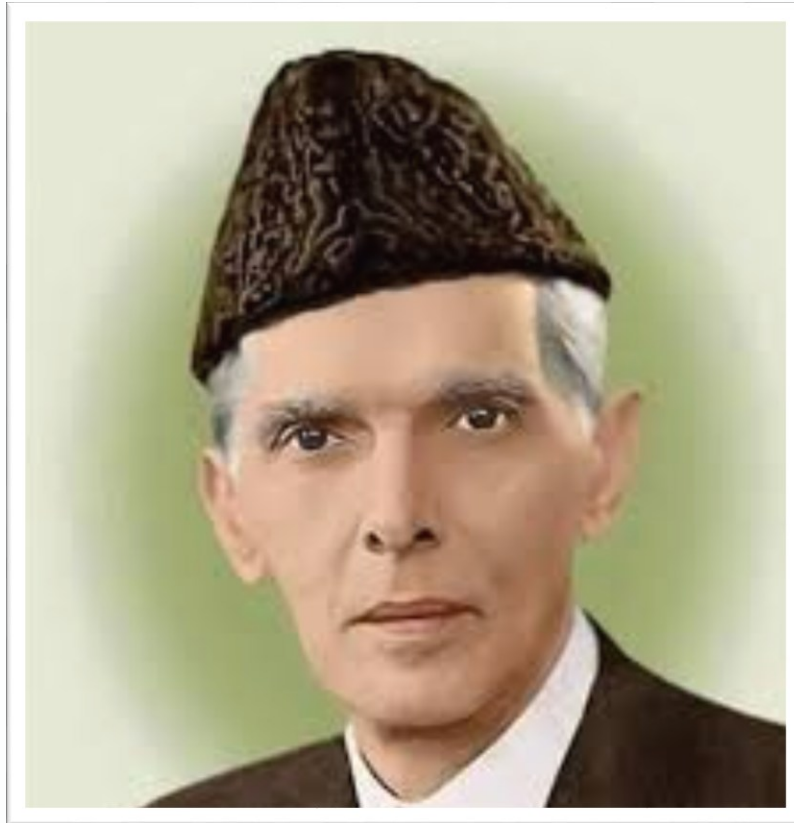


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QUAID E AZAM MUHAMMAD ALI JINNAH



With faith, discipline and selfless devotion to duty, there is nothing worthwhile that you cannot achieve.



Message of Vice Chancellor

It is with great pleasure that I address this message to the new generation of aspiring students seeking higher education. Liaquat University of Medical and Health Sciences (LUMHS) stands as a proud pioneer in Pakistan's medical education sector. Established in 1881 as an institute and later recognized as a medical college in 1956, LUMHS achieved the esteemed status of a Medical University in 2001. Over the years, our contributions to the medical profession have been immense, and we continue to lead the way in shaping healthcare education.

LUMHS's journey has evolved beyond medical degrees. Recognizing the growing demand for skilled professionals in allied health sciences, and keeping in view of international job market we have expanded our academic offerings to include a variety of programs that are highly sought after not only in Pakistan but globally. These include bachelor's degrees in Pharmacy, Nursing, Physiotherapy, Biomedical Engineering, Molecular Biology and Genetics, along with a range of technological courses, diplomas, and more. Each year, we add new programs to keep pace with emerging fields and industry demands.

Our academic programs are designed with a modern curriculum that meets international standards, placing significant emphasis on both academic excellence and personal development. At LUMHS, we are committed to promoting gender equality, in line with the United Nations Sustainable Development Goal (SDG) 5, offering equal opportunities to both male and female students.

We also recognize the importance of global exposure in shaping well-rounded professionals. To this end, we have established strong partnerships with universities in the United States, the United Kingdom, China, Turkey, and Azerbaijan, offering our students opportunities for international collaboration and learning.

At LUMHS, our primary focus is on nurturing the personal growth of each student. We provide an exceptional learning environment, highly qualified faculty, a modern curriculum, and state-of-the-art facilities. Every student is treated as an individual, with their personal strengths and aspirations guiding their educational experience. As you explore this prospectus, I encourage you to discover the unique academic opportunities, advanced facilities, and the dedicated faculty that make LUMHS a center of excellence. Our team is here to support you every step of the way, ensuring you acquire the knowledge, skills, and resilience necessary to excel in your chosen profession.

I invite you to take this exciting opportunity to become part of our dynamic academic community. As you plan your educational journey, know that LUMHS is committed to providing you with the tools, support, and guidance needed to succeed.

I wish you the best of luck and look forward to welcoming you to our vibrant and thriving community.

Prof. Ikram Din Ujjan
Vice Chancellor LUMHS



UNDERGRADUATE PROGRAMS

DEGREE PROGRAMS LUMHS JAMSHORO

S. #	Program	Period of Study
1	Doctor of Physical Therapy (DPT)	05 Years
2	Doctor of Pharmacy (Pharm-D)	05 Years
3	BS. Nursing (Generic)	04 Years
4	BS. Physician Associate (BSPA)	04 Years
5	BS Molecular Biology & Genetics (BSMBG)	04 Years
6	BS Radiologic Technology (BSRT)	04 Years
7	BS Medical Laboratory Technology (BSMLT)	04 Years
9	BS Forensic Science in Forensic Biology (BSFB)	04 Years
10	BS. Biomedical Engineering (BSBME)	04 Years
11	BS Business and Information Technology (BSBIT)	04 Years
12	BS Health Informatics and Management System (BSHIMS) Evening Program	04 Years
13	BS Medical Technology (Neurosciences) (BSMTN)	04 Years
DIPLOMA PROGRAM		
01	Pediatric Health Care Technician	01 Year

DEGREE PROGRAMS LIMHS THATTA CAMPUS

S. #	Program	Period of Study
1	Doctor of Physical Therapy (DPT)	05 Years
2	BS. Nursing (Generic)	04 Years
3	BS Medical Laboratory Technology (BSMLT)	04 Years

DIPLOMA PROGRAM

01	Diploma in Community Midwifery (CMW) for female	02 Years
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INSTITUTE OF PHYSIOTHERAPY & REHABILITATION SCIENCES

LIAQUAT UNIVERSITY OF MEDICAL &
HEALTH SCIENCES, JAMSHORO





INTRODUCTION

The Institute of Physiotherapy & Rehabilitation Sciences, LUMHS, Jamshoro has started Bachelor of Science in Physiotherapy (B.S. Physiotherapy) Degree Program during the tenure of Prof. Dr. Noshad A. Shaikh, Vice Chancellor, Liaquat University of Medical & Health Sciences, Jamshoro. This Institute is the first ever Public Sector Institute of Sindh Province offered B.S. Physiotherapy Degree Program, before this, Jinnah Postgraduate Medical Center (JPMC), Karachi was running under Federal Government of Pakistan.

The numbers of graduates from Private Institutes were rather low and the poor patients of whole Province in general & rural Sindh in particular could not have the facilities of Physiotherapy treatment, moreover, the young blood did not have the easy & economical excess to improve their education & training. Hence there was dire need of establishing the Institute of Physiotherapy in order to impart quality medical education and relieves pain and re-gain strength after serious injuries, illness and surgery.

The B.S. Physiotherapy (BSPT) four (04) years degree program announced first time at this Institute during the year 2009 and same program was offered up to the year 2011, then Doctor of Physiotherapy (DPT) five (05) years degree program started at Institute of Physiotherapy from the year 2012.

In order to keep improve & update the knowledge of Faculty of IPRS & Staff of OPD, organizing/ conducting Continuous Medical Education (CME) and Continuous Professional Development (CPD) & 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 LUMHS nevertheless is not left behind & is the first Public Sector Institute of Sindh Province to start the Doctor of Physiotherapy (DPT) five years degree program.

This Institute is equipped with modern and state of art facilities i.e. Air-Conditioner Labs, Lecture Halls, Reading & Lending Library, Out Patient Department and teaching aids. The students have not only the opportunity to see the working of gadgets but also have the chance to practically learn the methods of Physiotherapy on the patients attending the O.P.D and also Wards in Liaquat University Hospital Jamshoro & Hyderabad.

**ABOUT PHYSIOTHERAPY, PHYSICAL MEDICAL & REHABILITATION:**

Physiotherapy is a process which involves in physical examination, diagnosis and management plan by the engaging of Physiotherapists who do manage pain and improve movement problems. Some pain and movement problems can become chronic and lead to surgery. Physiotherapy helps to reduce the symptoms of many chronic diseases and conditions. It also can keep many problems from getting bad.

Physiotherapy restores function, strengthens and improves fitness and Rehabilitation is concerned with treating disabilities, helping patients recover and revive physically as for as Physical medicine and rehabilitation also known as physiatry or rehabilitation medicine enhances and restores functional ability and quality of life to those with physical impairments or disabilities affecting the brain, spinal cord, nerves, bones, joints, ligaments, muscles, and tendons. Consultant Physicians always refer patients to physiatrist. Unlike other medical specialties that focus on a medical “cure,” the goals of the physiatrist are to maximize patients’ independence in activities of daily living and improve quality of life.

Physiotherapy relieves physical pain or any muscular or bone disorder which depends on an individual's medical history and physical examination to reach a diagnosis that helps them create a management plan.



**ADMINISTRATIVE & ACADEMIC SUPPORT OF
INSTITUTE OF PHYSIOTHERAPY & REHABILITATION SCIENCES
LUMHS JAMSHORO.**

ADMINISTRATIVE SUPPORT		
S.NO	ADMINISTRATIVE/ SUPPORTING STAFF	DESIGNATION
01	Dr. Asif Gulzar Shaikh	Director
02	Dr. Khurram-ullah Shaikh	Working as Additional Director
03	Mr. Abdul Ghafoor Sial	Administrative Officer
04	Mr. Niaz Ahmed Daudani	Assistant Librarian
05	Mr. Muhammad Shahid	Assistant
06	Mr. Muhammad Mugeem	Computer Operator
07	Mr. Altaf Ahmed Larik	Senior Clerk
08	Mr. Shahmir Mallah	Junior Clerk
09	Mr. Bashir Ahmed Memon	Store Keeper
ACADEMIC SUPPORT		
S. No.	TEACHING FACULTY	DESIGNATION
01	Mr. Sikandar Ali Sangrasi	Assistant Professor
02	Syed Faizan Ali Shah	Lecturer
03	Ms. Wajeeha Sahre	Lecturer
04	Ms. Pinky	Lecturer
05	Mr. Ashok Kumar	Lecturer
06	Ms. Ghazala Langah	Lecturer
07	Ms. Fakhra Safdar	Lecturer



COURSE CURRICULUM

Doctor of Physical therapy
SCHEME OF STUDIES FOR 5-YEARS DPT PROGRAM

SEMESTER / YEAR	NAME OF SUBJECT	CREDITS
First Professional Year		
FIRST	Anatomy-I	4(3-1)
	Physiology-I	3(2-1)
	Kinesiology-I	3(2-1)
	English (Functional English)	3(3-0)
	Pakistan Studies	2(2-0)
	Biostatistics-I	3(3-0)
		18
Second	Anatomy-II	4(3-1)
	Physiology-II	3(2-1)
	Kinesiology-II	3(2-1)
	English-II (Communication Skills)	3(3-0)
	Islamic Studies / Ethics	2(2-0)
	Biostatistics-II / University Optional	3(3-0)
		18
Second Professional Year		
Third	English-III (Technical Writing & Presentation Skills)	3(3-0)
	Introduction to Computer	3(2-1)
	Anatomy-III	3(2-1)
	Physiology-III	3(2-1)
	Biomechanics & Ergonomics-I	3(3-0)
	Biochemistry & Genetics-I	2(2-0)
		17
Four	Anatomy-IV (Neuro-Anatomy)	3(2-1)
	Biomechanics & Ergonomics-II	3(2-1)
	Behavioral Sciences (Psychiatry & Psychology)	3(3-0)
	Biochemistry & Genetics-II	2(2-0)
	Exercise Physiology	3(3-0)
	Medical Physics	3(2-1)
		17
Third Professional Year		
Fifth	Pathology & Microbiology-I	2(2-0)
	Pharmacology-I	3(3-0)
	Physical Agents & Electrotherapy-I	3(2-1)
	Therapeutic Exercise & Techniques	3(2-1)
	Sociology	2(2-0)
	Health & Wellness	2(2-0)
	Supervised Clinical Practice-I	3(0-3)
		18
Sixth	Pathology & Microbiology-II	3(2-1)
	Pharmacology-II	2(2-0)
	Physical Agents & Electrotherapy-II	3(2-1)
	Manual Therapy	3(2-1)
	Teaching Methodology & Community Medicine	3(3-0)
	Supervised Clinical Practice-II	3(0-3)
		17



Fourth Professional Year		
Seventh	Medicine-I	3(3-0)
	Surgery-I	3(3-0)
	Radiology & Diagnostic Imaging	3(2-1)
	Musculoskeletal Physical Therapy	3(2-1)
	Human Growth Development & Community Based Rehabilitation	2(2-0)
	Supervised Clinical Practice-III	3(0-3)
		17
Eight	Medicine-II	3(3-0)
	Surgery-II	3(3-0)
	Neurological Physical Therapy	3(2-1)
	Evidence Based Practice	3(2-1)
	Prosthetics & Orthotics	2(2-0)
	Supervised Clinical Practice-IV	3(0-3)
		17
Fifth Professional Year		
Ninth	Cardiopulmonary Physical Therapy	3(2-1)
	Emergency Procedure & Primary Care in Physical Therapy	2(2-0)
	Clinical Decision Making & Differential Diagnosis	3(3-0)
	Scientific Inquiry & Research Methodology	3(2-1)
	Professional Practice (Laws, Ethics & Administration)	2(2-0)
	Integumentary Physical Therapy	2(2-0)
	Supervised Clinical Practice-V	3(0-3)
		18
Tenth	Obstetrics & Gynecological Physical Therapy	2(2-0)
	Pediatric Physical Therapy	2(2-0)
	Gerontology & Geriatric Physical Therapy	2(2-0)
	Sports Physical Therapy	2(2-0)
	Supervised Clinical Practice-VI	4(0-4)
	Research Project	6
		18
	Total Credits	175

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.
- ▲ **Practical/ Lab:** One Credit Hour shall be equal to two hours of lab work per week throughout the semester.
- ▲ **Clinical:** One Credit Hour shall be equal to three hours of clinical 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 period of one **(01)** year House Job in Hospital(s) affiliated with the Liaquat University of Medical & Health Sciences. After successfully completion of House Job they will have the certificates of House Job.

EVALUATION SYSTEM:

- **Log Book:**
 - For Theory
 - For Practical / Clinical
- **Internal Evaluation**
(After 6th or 12th week of every semester)
- **Semester Examination** **Marks**
 - SBQs _____ 80
 - Attendance _____ 10
 - Internal Evaluation _____ 10
 - Viva Voce/ Practical _____ 100
 - Supervised Clinical Practice _____ 100
 - Research Project _____ 100



RULES OF EXAMINATIONS:

- (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 least **50%** marks in each test.
- (3). The organization of semester system is given below.

PROMOTION POLICY

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

First and Second Semester Examinations:

1st semester students who after appearing in 1st Semester (Regular) examination, either declared pass or fail will 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, LUMHS.

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



MESSAGE OF PRINCIPAL

It is with great pleasure and enthusiasm that I extend my warmest greetings to you on behalf of College of Pharmacy. As the Administrator of our esteemed institution, I take immense pride in presenting to you our college prospectus.

At College of Pharmacy, we believe in the transformative power of education. We are committed to providing a nurturing and intellectually stimulating environment that empowers students to excel academically, grow personally, and become future leaders in their chosen fields. Our esteemed faculty Members emphasis on interactive teaching methodologies, research-based learning, and practical application of knowledge equips our graduates with the skills necessary to thrive in a competitive global landscape.

We understand the significance of real-world exposure and hands-on experience. Through our robust industry partnerships, internships, and experiential learning opportunities, students gain valuable insights, develop industry-relevant skills, and establish a strong network of professional contacts. I invite you to explore the pages of this prospectus to learn more about our college, its program, and the numerous opportunities that await you.

On behalf of the faculty, staff, and students of College of Pharmacy, I extend a warm invitation to visit our campus, meet our vibrant community, and witness the exceptional educational environment we offer.

Thank you for considering College of Pharmacy. We look forward to welcoming you and being part of your educational success story.

Warm regards,

Prof. Dr. Naheed Memon
Principal
College of Pharmacy
LUMHS Jamshoro



COLLEGE OF PHARMACY

Mission:

The mission of the college of pharmacy, Liaquat University of Medical & Health Sciences is to educate, train and provide life-long learning opportunities for students, pharmacist and other health care professionals, while creating disseminating and applying new knowledge based on research in the field of pharmacy and clinical sciences to enhance the quality of life through improved health.

Vision:

College of Pharmacy, LUMHS strives to support the profession of pharmacy's vision for practice, research and education by providing an environment for development and appropriate use of medications for the welfare and safety of the public.



Scope of Pharmacy

Pharmaceutical industry:

An important career option in the Pharmacy is represented by pharmaceutical industry. Here, pharmacists are employed in manufacturing, product, development, research, quality control, quality assurance, marketing, sales and administration.

Hospital and other Institutional settings:

The expansion of health care needs the society to put the hospital pharmacist in a position to have direct involvement in the patient care, it also establishes the roles of Drug purchases, control, supply & distribution of drugs, management functions, system development and planning.

Managed care Pharmacy:

Managed care is a system designed to optimize patient care through greater coordination of medical and pharmaceutical services. Managed care pharmacy services are extended health delivery system services that provide the pharmaceutical care at the primary or preventive level.

Community/Retail Pharmacy:

This area involves the practice of pharmacy in community settings or retail outlets. Pharmacists, in the community settings are actively involved in educating patients, maintaining and monitoring drug records and providing information resource of highest caliber.

Other fields in Pharmacy:

Pharmacists use their basic educational background in a host of federal, state and professional positions. At the federal or provincial level, pharmacist hold post like drug inspectors, drug Controllers, Pharmacist at Drug Testing Laboratories and also as Commissioned officers in Pakistan Armed Forces. Pharmacists with interest and special talents in organizational work also guide several national professional associations. There are pharmacists with legal training who are serving as patent lawyers or as experts in pharmaceutical law.



TEACHING FACULTY
College of Pharmacy

NAME	PICTURE	NAME	PICTURE
Prof. Dr. Naheed Memon Ph. D (Pharmaceutics) Principal		Dr. Syed Shafquat Ali Shah M.Phil (Pharmaceutics) Ph.D (Pharmacognosy) Lecturer	
Dr. Ahsan Ali Memon M.Phil(Pharmacology)MBA-HR, Ph.D * (Pharmaceutical Chemistry) Assistant Professor		Dr. Asif Soomro Ph.D (Pharmaceutics) Lecturer	
Dr. Raheela Afzal Shaikh Ph.D (Pharmaceutics) MBA (General Management) Associate Professor		Dr. Syed Mubashir Shah Ph.D (Pharmaceutics) Lecturer	
Dr. Sadaf Hayat Laghari M.Phil, Ph.D* (Pharmaceutics), Assistant Professor		Dr. Maira Ahsan Memon M.Phil (Pharmaceutics) Ph.D* (Pharmacy Practice) Lecturer	
Dr. Izhaar Mirani M.Phil (Pharmacology)Assistant Professor		Dr. Hetesh Kumar Ph.D* (Pharmaceutics) MBA (Marketing) Lecturer	
Dr. Bilal Mustafa Memon PhD (Pharmaceutical Sciences, France), M.Phil (Health Sciences, France)		Dr. Komal Zaman M.Phil (Pharmaceutics),Ph.D* (Pharmacy Practice) Lecturer	
Dr. Danish Patoli Post-doc(France),PhD (Life Sciences,France)			



TEACHING FACULTY
College of Pharmacy

NAME	NAME
Dr. Shereen Burghuri Ph.D* (Pharmaceutics) Teaching Assistant	Dr. Arshi Pharm.D Teaching Assistant
Dr. Moin Ahmed Nonari Pharm.D, M.Phil (Pharmacognosy) Teaching Assistant	Dr. Farzana Qaiser Pharm.D Teaching Assistant
Dr. Imran Ali M.Phil* (Pharmacology) Teaching Assistant	Dr. Mahesh Kumar Pharm. D Teaching Assistant
Dr. Safia Laghari M.Phil (Pharmacology) Pharm.D Teaching Assistant	



ACADEMIC PROGRAM

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.

ATTENDANCE OF THE STUDENTS:

- 1) The University is determined to improve its teaching standards.
- 2) The record of attendance is essential to determine eligibility of students for her/ his appearing the examination.
- 3) 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.
- 4) 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".
- 5) 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

- For award of degree, students must pass all the courses taught during five years education Pharm-D with minimum CGPA 2.0
- Promotion from one academic year to next higher academic year
- Policy of conducting re-sit (repeat) examination
- (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 be bifurcated into the following groups.

- 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 Seventh 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 AND TENTH SEMESTER EXAMINATIONS (5TH PROFESSIONAL)

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

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

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

- a) Passed Ninth and Tenth semester
- b) Passed Tenth semester but failed in Ninth semester
- c) Passed Ninth semester but failed in Tenth semester
- d) Failed in both semester

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

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

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

- 1) Students who passed Ninth and Tenth semester examinations completely, they will be Declared to have passed Pharm-D examination and shall be awarded degree.
- 2) However in case of failures in either Ninth or tenth semester they will be allowed to appear in re-sit examination will continue to repeat failure subjects with junior batch till they completely pass Pharm-D examination.

Cash award ceremony for top ten position holders

The award money will be disbursed in accordance with the University's rules and regulations.



CURRICULUM

1ST PROFESSIONAL PHARM-D

1 ST Semester			2 ND Semester		
Course #	Subject	Cr. Hr.	Course.#	Subject	Cr. Hr.
300	English-A (Functional English)	2	301	English-B (Communication & writing skills)	4
Pharm-310	Pharmaceutics-IA (physical pharmacy) Th.	3	Pharm- 320	Pharmaceutics-IB (physical pharmacy) Th.	3
Pharm-311	Pharmaceutics-IA (physical pharmacy) Lab.	1	Pharm-321	Pharmaceutics-IB (physical pharmacy) Lab.	1
Pharm-312	Pharmaceutical Chemistry-IA (organic) Th.	3	Pharm- 322	Pharmaceutical Chemistry-IB (organic) Th	3
Pharm-313	Pharmaceutical Chemistry-IA (organic)Lab.	1	Pharm- 323	Pharmaceutical Chemistry-IB (organic) Lab.	1
Pharm-314	Pharmaceutical Chemistry-IIA (Biochemistry)Th.	3	Pharm-324	Pharmaceutical Chemistry-IIB (Biochemistry) Th.	3
Pharm-315	Pharmaceutical Chemistry-IIA (Biochemistry)Lab.	1	Pharm- 325	Pharmaceutical Chemistry-IIB (Biochemistry) Lab.	1
Pharm-316	Physiology-A Th.	3	Pharm- 326	Physiology-B Th.	3
Pharm-317	Physiology-A Lab	1	Pharm-327	Physiology-B Lab.	1
Pharm-318	Anatomy & Histology Th.	3			
Pharm-319	Anatomy & Histology Lab	1			
	Total Cr. Hr.	22	Total Cr. Hr.	Total Cr. Hr.	20



CURRICULUM

2ND PROFESSIONAL PHARM-D

1 ST Semester			2 ND Semester		
Course #	Subject	Cr. Hr.	Course.#	Subject	Cr. Hr.
IS 402	Islamic Studies	3	PS 403	Pakistan Studies	2
Pharm- 410	Pharmaceutics-IIA (Dosage form sciences) Th.	3	Pharm- 420	Pharmaceutics-IIB (Dosage form sciences) Th.	3
Pharm- 411	Pharmaceutics-IIA (Dosage form sciences) Lab.	1	Pharm- 421	Pharmaceutics-IIB (Dosage form sciences) Lab.	1
Pharm- 412	Pharmaceutics-IIIA (Pharmaceutical Microbiology and Immunology) Th.	3	Pharm- 422	Pharmaceutics-IIIB (Pharmaceutical Microbiology and Immunology) Th.	3
Pharm- 413	Pharmaceutics-IIIA (Pharmaceutical Microbiology and Immunology) Lab.	1	Pharm- 323	Pharmaceutics-IIIB (Pharmaceutical Microbiology and Immunology) Lab.	1
Pharm- 414	Pharmacology and Therapeutics-IA Th	3	Pharm- 424	Pharmacology and Therapeutics-IB Th	3
Pharm- 415	Pharmacology and Therapeutics-IA Lab.	1	Pharm- 425	Pharmacology and Therapeutics-IB Lab.	1
Pharm- 416	Pharmacognosy-IA (Basic) Th.	3	Pharm- 426	Pharmacognosy-IB (Basic) Th.	3
Pharm- 417	Pharmacognosy-IA (Basic) Lab	1	Pharm- 327	Pharmacognosy-IB (Basic) Lab.	1
Pharm- 418	Pharmacy Practice-IA (Pharmaceutical Mathematics)	3	Pharm- 428	Pharmacy Practice-IB (Bio-Statistics)	3
	Total Cr. Hr.	22	Total Cr. Hr.	Total Cr. Hr.	21



CURRICULUM

3RD PROFESSIONAL PHARM-D

1 ST Semester			2 ND Semester		
Course #	Subject	Cr. Hr.	Course.#	Subject	Cr. Hr.
Pharm-510	Pharmacy Practice-IIA (Dispensing Pharmacy) Th.	3	Pharm- 520	Pharmacy Practice-IIB (Community Social and Administrative Pharmacy) Th.	3
Pharm-511	Pharmacy Practice-IIA (Dispensing Pharmacy) Lab.	1	Pharm- 522	Pharmaceutical Chemistry- IIIB (Pharmaceutical Analysis) Th.	3
Pharm-512	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis) Th.	3	Pharm- 523	Pharmaceutical Chemistry- IIIB (Pharmaceutical Analysis) Lab.	1
Pharm-513	Pharmaceutical Chemistry-IIIA (Pharmaceutical Analysis) Lab.	1	Pharm- 524	Pharmacology and Therapeutics-II Th.	3
Pharm-514	Pharmacology and Therapeutics-IIA Th.	3	Pharm- 525	Pharmacology and Therapeutics-II Lab.	1
Pharm-515	Pharmacology and Therapeutics-IIA Lab.	1	Pharm- 526	Pharmacognosy-IIB (Advanced) Th	3
Pharm-516	Pharmacognosy-IIA (Advanced) Th.	3	Pharm- 527	Pharmacognosy-IIB (Advanced) Lab	1
Pharm-517	Pharmacognosy-IIA (Advanced) Lab	1	Pharm- 528	Pharmacy Practice-III (Computer and its applications in Pharmacy) TH.	3
Pharm-518	Pathology Th.	3	Pharm- 529	Pharmacy Practice-III (Computer and its applications in Pharmacy) Lab.	1
Pharm-519	Pathology Lab.	1			
	Total Cr. Hr.	20	Total Cr. Hr.	Total Cr. Hr.	19



CURRICULUM

4TH PROFESSIONAL PHARM-D

1 ST Semester			2 ND Semester		
Course #	Subject	Cr. Hr.	Course.#	Subject	Cr. Hr.
Pharm- 610	Pharmacy Practice-IVA (Hospital Pharmacy) Th.	3	Pharm- 620	Pharmacy Practice- IVB (Hospital Pharmacy) Th.	3
Pharm- 612	Pharmacy Practice-VA (Clinical Pharmacy) Th.	3	Pharm- 622	Pharmacy Practice-VB (Clinical Pharmacy) Th.	3
Pharm- 613	Pharmacy Practice-VA (Clinical Pharmacy) Lab.	1	Pharm- 623	Pharmacy Practice-VB (Clinical Pharmacy) Lab.	1
Pharm- 614	Pharmaceutics –IVA (Industrial Pharmacy) Th.	3	Pharm- 624	Pharmaceutics –IVB (Industrial Pharmacy) Th.	3
Pharm- 615	Pharmaceutics- IVA (Industrial Pharmacy) Lab.	1	Pharm- 625	Pharmaceutics- IVB (Industrial Pharmacy) Lab.	1
Pharm- 616	Pharmaceutics – VA (Bio Pharmaceutics & Pharmacokinetics) Th.	3	Pharm- 626	Pharmaceutics – VB (Bio Pharmaceutics & Pharmacokinetics) Th.	3
Pharm- 617	Pharmaceutics – VA (Bio Pharmaceutics & Pharmacokinetics) Lab.	1	Pharm- 627	Pharmaceutics – VB (Bio Pharmaceutics & Pharmacokinetics) Lab.	1
Pharm- 618	Pharmaceutics –VIA (Pharmaceutical Quality Management) Th.	3	Pharm- 628	Pharmaceutics –VIB (Pharmaceutical Quality Management) Th.	3
Pharm- 619	Pharmaceutics –VIA (Pharmaceutical Quality Management) Lab	1	Pharm- 629	Pharmaceutics –VIB (Pharmaceutical Quality Management) Lab.	1
	Total Cr. Hr.	19	Total Cr. Hr.	Total Cr. Hr.	19



CURRICULUM

5TH PROFESSIONAL PHARM-D

1 ST Semester			2 ND Semester		
Course #	Subject	Cr. Hr.	Course.#	Subject	Cr.Hr.
Pharm-710	Pharmaceutics-VIIA (Pharmaceutical Technology) Th.	3	Pharm-720	Pharmaceutics-VIIB (Pharmaceutical Technology) Th.	3
Pharm-711	Pharmaceutics-VIIA (Pharmaceutical Technology) Lab	1	Pharm-721	Pharmaceutics-VIIB (Pharmaceutical Technology) Lab	1
Pharm-712	Pharmacy Practice-VIA Clinical Pharmacy- II (Advanced) Th.	3	Pharm-722	Pharmacy Practice-VIIB Clinical Pharmacy- II (Advanced) Th.	3
Pharm-713	Pharmacy Practice-VIA Clinical Pharmacy- II (Advanced) Lab.	1	Pharm-723	Pharmacy Practice-VIIB Clinical Pharmacy- II (Advanced) Lab.	1
Pharm-714	Pharmacy Practice-VIIA Forensic Pharmacy Th.	3	Pharm-724	Pharmacy Practice-VIIB Forens Pharmacy Th.	3
Pharm-716	Pharmacy Practice-VIIIA Pharmaceutical Management & Marketing) Th.	3	Pharm-726	Pharmacy Practice-VIIIB Pharmaceutical Management & Marketing) Th.	3
Pharm-718	Pharmaceutical Chemistry- IVA (Medicinal Chemistry) Th.	3	Pharm-728	Pharmaceutical Chemistry-IVA (Medicinal Chemistry) Th.	3
Pharm-719	Pharmaceutical Chemistry- IVA (Medicinal Chemistry)Lab.	1	Pharm-729	Pharmaceutical Chemistry-IVA (Medicinal Chemistry)Lab.	1
	Total Cr. Hr.	18	Total Cr.Hr.	Total Cr. Hr.	18

Pharm-D Five Year Credit Hours Summary

Pharm-D	1 ST Semester	2 nd Semester	Total
Professional	Cr. Hr.	Cr. Hr.	Cr. Hr.
1 ST	22	20	42
2 ND	22	21	43
3 RD	20	19	39
4 TH	19	19	38
5 TH	18	18	36
Total Credit Hours	101	97	198



PEOPLE'S NURSING SCHOOL



ADMINISTRATION & ACADEMIC SUPPORT

Prof. Dr. Ikram Din Ujjan
Vice Chancellor /Chairman,
LUMHS Jamshoro

Member
Prof Dr. Muhammad Ilyas SAdaqt
Dean
Faculty of Basic Medical Sciences,
LUMHS, Jamshoro

Prof Dr. Manzoor Lakhair
Director Academics, LUMHS, Jamshoro

Dr. Haji Muhammad Shaikh
Registrar LUMHS, Jamshoro

Parveen Akhter
Director
PNS, LUMHS, Jamshoro

Ms. Preesa Bhutto
Director Admissions
LUMHS, Jamshoro

Dr. Sajjan Halepoto
Director Student Affairs LUMHS, Jamshoro



TEACHING FACULTY OF PEOPLE'S NURSING SCHOOL

Director Nursing
Dr. Parveen Akhter
MPH

People's Nursing School (PNS)

Dr. Husan Bano Channar
Assistant Professor
PNS, LUMHS

Mr. Amanullah Rind
Senior Lecturer/Deputy Director
PNS, LUMHS

Ms. Shmaila Khawaja

Dr. Muhammad Bakhsh
Lecturer, PNS, LUMHS

Ms. Rubina Dean
Senior Lecture

Ms. Fatima Soomro
Lecturer, PNS, LUMHS

Mr. Manzoor Ali Janveri
Lecturer, PNS, LUMHS

Mr. Mairaj Hafeez
Lecturer, PNS, LUMHS

Mr. Mansoor-ul-Haq
Lecturer, PNS, LUMHS

Ms. Khushboo Chandio
Lecturer (Contract) PNS, LUMHS

Ms. Amber Halepoto
Lecturer, PNS, LUMHS

Ms. Husna Bano Ujjan
Lecturer (Contract) PNS, LUMHS

Mr. Abdul Hameed Bhachoo
Lecturer (Contract) PNS, LUMHS



PEOPLE'S NURSING SCHOOL UMHS, JAMSHORO

INTRODUCTION

The people's Nursing School, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCES, JAMSHORO(LUMHS) is the first ever public sector Nursing School in Pakistan started Four Years BS Nursing Generic Degree Program to provide quality Nursing Education to deserving students. It is fully equipped with all necessary equipment and furniture according to the need of modern nursing profession.

MISSION STATEMENT AND VISION

To provide quality education to students, to groom their personality and teach them sense of responsibility, confidence, commitment and dedication toward their profession, community and society at national as well as at global level to provide better health care to the community.

OBJECTIVES:

To prepare highly qualified nurses to meet the future challenges to provide the highest quality nursing care.

To provide leadership in nursing education, administration and research.

To prepare nursing human resources to pursue higher education at accredited universities throughout the world.

ACADEMIC PROGRAM

People's Nursing School, LUMHS, Jamshoro - Sindh PAKISTAN, offer four years course of study which leads to 4 Years BS Nursing (Generic) Degree Program.

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.

REGISTRATION OF PAKISTAN NURSING COUNCIL

BSN degree Program is registered with Pakistan Nursing council (PNC), Islamabad as per their Rules & Regulations

GENERIC BSN (04 YEARS DEGREE PROGRAM)

Qualification:

- Matric Science (Physics, Chemistry & Biology as compulsory subjects)
- FSc (Pre-Medical) with 50% marks minimum (Physics, Chemistry & Biology as compulsory subjects)
- Age Limit - (14 – 35 Years).



COURSE OUTLINE

1 ST YEAR (SEMESTER-I)						
S.No.	Course	Category	Theory	Clinical	Skills/Lab	Credits
1	Microbiology	GE(NS)	1.5	-	0.5	02
2	Biochemistry	GE	1.5	-	0.5	02
3	English – Functional English	GE	03	-	-	03
4	Fundamentals of Nursing – I	Major	02	-	01	03
5	Anatomy & Physiology–I	Major	2.5	-	0.5	03
6	Ideology and Constitution of Pakistan	GE	02	-	-	02
7	Information and Communication Technology	GE	01	-	01	02
						Total Credits = (17)

1 ST YEAR (SEMESTER-II)						
S.No.	Course	Category	Theory	Clinical	Skills/Lab	Credits
1	Fundamentals of Nursing – II	Major	02	01	01	04
2	Quantitative Reasoning–I	GE	03	-	-	03
3	Anatomy & Physiology–II	Major	2.5	-	0.5	03
4	Applied Nutrition	ID	02	-	-	02
5	Theoretical Basis of Nursing	GE(AH)	02	-	-	02
6	Islamic Studies/ Ethics	GE	02	-	-	02
						Total Credits = (16)

2 ND YEAR (SEMESTER-III)						
S.No.	Course	Category	Theory	Clinical	Skills/Lab	Credits
1	Professional Communication Skills	GE	03	-	-	03
2	Clinical Pharmacology Drug Administration–I	Major	02	-	-	02
3	Medical Surgical Nursing – I	Major	03	03	01	07
4	Health Assessment–I	Major	01	-	01	02
5	Pathophysiology – I	Major	02	-	01	03
						Total Credits = (17)

2 ND YEAR (SEMESTER-IV)						
S.No.	Course	Category	Theory	Clinical	Skills/Lab	Credits
1	Applied Psychology	ID	03	-	-	03
2	Medical Surgical Nursing – II	Major	03	03	01	07
3	Health Assessment– II	Major	01	-	01	02
4	Pathophysiology – II	Major	02	-	-	02
5	Clinical Pharmacology and Drug Administration–II	Major	02	-	-	02
6	Professional Ethics for Nurses	Major	02	-	-	02
						Total Credits = (18)



3 RD YEAR (SEMESTER-V)						
S.No.	Course	Category	Theory	Clinical	Skills/Lab	Credits
1	Civics and Community Engagement	GE	02	-	-	02
2	Pediatric Health Nursing	Major	03	03	01	07
3	Maternal, Neonatal and Child Health Nursing	Major	02	01	-	03
4	Epidemiology	ID	02	-	-	02
5	Infectious Diseases	ID	02	-	-	02
Total Credits = (16)						

3 RD YEAR (SEMESTER-VI)						
S.No.	Course	Category	Theory	Clinical	Skills/Lab	Credits
1	Principles of Teaching & Learning	ID	03	-	-	03
2	Public Health Nursing	Major	02	02	-	04
3	Mental Health Nursing	Major	03	02	01	06
4	Introduction to Biostatistics(QRII)	GE	03	-	-	03
5	Culture, Health & Society	GE	02	-	-	02
Total Credits = (18)						

4 TH YEAR (SEMESTER-VII)						
S.No.	Course	Category	Theory	Clinical	Skills/Lab	Credits
1	Leadership & Management	ID	02	01	-	03
2	Critical Care Nursing	Major	02	04	01	07
3	Introduction to Nursing Research	Major	03	-	-	03
4	Entrepreneurship	GE	02	-	-	02
5	Elective	Major	02	-	-	02
Total Credits = (17)						

4 TH YEAR (SEMESTER-VIII)						
S.No.	Course	Category	Theory	Clinical	Skills/Lab	Credits
1	Geriatric Nursing	Major	1.5	1.5	-	03
2	Trends and Issues in Health Care	Major	02	-	-	02
3	Expository Writing	GE	03	-	-	03
4	Elective	Major	-	-	-	03
5	Clinical Practicum	CP	-	04	-	04
Total Credits = (15)						

UNIFORM

- White apron with maroon color piping in campus Name of People's Nursing School & LUMHS Logo
- Pakistan Nursing Council's prescribed Uniforms during the clinical practice in the wards

GENDER	UNIFORM
GIRLS	White Shirt, White Shalwar, White Dopata, White Apron, Black Shoes
BOYS	White Shirt, White Paint, White Apron, Black Shoes



Academic Policies and Procedures

GENERAL INSTITUTIONAL REGULATIONS

- a) All the candidates must present themselves in the institute on the first day of first semester, i.e. Orientation Week.
- b) Class schedule / time table will be posted on bulletin / Notice board).
- c) Classes will be scheduled to 8.00 am to 3.00 pm.
- d) A Student will not be allowed after 15 Minutes of the start of the class.

1. Attendance in Classes and Clinical Experience.

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

- It is mandatory for students to attend all classes and clinical sessions. Further it is responsibility of students to arrange make up for missed classes, assignments, test and clinical.
- 75% attendance is mandatory for appearing in the semester examination.
- 10% waiver (5% by Vice Chancellor & 5% by waiver Committee) can be given on medical grounds by the committee as per university rule.
- At least 40% attendance shall be required to appear in the RE-SIT EXAMINATION.
- As per Pakistan Nursing Council Rule students must have to attend 100% of the total clinical hours and 85% of the theoretical hours in each subject of academic session to appear in examination.
- If a student fails to attend as per PNC Rule will repeat the Subjects in next academic year (See PNC Rule 1995).

2. Regular Assigned Leave:

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

3. Dismissal.

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

1. Class or Clinical attendance of less than 75%.
2. Any conduct which is judged unsatisfactory, illegal or immoral.
3. Failure to meet the Academic standards due to academic failure.
4. Failure to abide by the rules and regulations.



FREESHIP:

(ONLY STUDENTS OF PEOPLE'S NURSING SCHOOL WILL BE ELIGIBLE TO APPLY SUBJECT TO FULFILLING THE CRITERIA):

1. Free-ship of fees means exemption of paying tuition fee only (full/half). The student who is granted full/ half free-ship of tuition fee shall be required to make full payment for all other subscription/ funds.
2. The Free-ship will grant from 2nd year.
3. Freeship whole/ half of the tuition fees can be allowed by free-ship committee not exceeding more than 10% number of the discipline.
4. The grant of free-ship will depend upon the circumstance of the students to his/ her studies. Absence or failure from professional examination, breach of discipline, neglect of studies or reprehensible conduct shall bring about loss of concession.
5. Fresh application/(s) along with relevant document/(s) shall be invited every year from students they will be submitted through their respective departments.
6. After scrutiny of document/(s) by concerned department/ institute, interview will be conducted from eligible students at Directorate of Academics.
7. Free-ship will be granted on annual basis.
8. Student who is receiving any other scholarship will not be eligible for free-ship.
 - HEC Scholarship
 - Ehsas Scholarship
 - NEST Scholarship
9. Student is studying in Self-Finance basis will not be eligible.

ELIGIBILITY CRITERIA:

- a) Orphan Student or Single Parent
- b) Poor Cum Merit-Basis
- c) High Percentage or GPA3+ (EXCEPT TOP TEN POSITION HOLDERS)
- d) Parent/Guardian's income should be up to Rs.50,000/=per month.
- e) Sibling basis free-ship cases will be entertained

2025-2026 ADMISSION

Director
Prof. Dr. Munawar Hussain





DIRECTOR MESSAGE

As the Director of College of Technology, Liaquat University of Medical & Health Sciences, Jamshoro. I am delighted to welcome all of you to the new chapter of your academic journey.

The College of Technology was founded with the aim of upholding and fulfilling the values of the prestigious institution that is LUMHS. Thus, through the many disciplines that we offer in our Undergraduate and Diploma Programs, we strive to nurture students as both people and professionals with knowledge and skills to compete locally, nationally- and internationally.

We will do our utmost to provide you with state-of-the-art technical training and qualification in Pathology, Radiology, Forensic Medicine, Ophthalmology, and Dentistry.

Faculty and clinical preceptors work hard to provide the best educational opportunities for our students.

My message concludes by reminding all stakeholders that we live in a rapidly changing world along with technology, customs, traditions, methods, and aims of education which are undergoing a corresponding change. We all must be cognizant of the paradigm shift in education that has taken place over the last quarter of a century. At the same time we must also keep an eye on the horizon – to quickly detect the changes that are taking place, and are likely to take place and adjust our ‘sails’ accordingly.

In return, all I request is for all of you to use this opportunity to find and maximize your true potentials to be the leaders of the next generation.

Prof. Dr. Munawar Hussain

MBBS, MCPS, FCPS,
Director College of Technology
LUMHS, Jamshoro



VISION

The Vision of the College of Technology, LUMHS, Liaquat University of Medical and Health Sciences is to be among the best college in providing various undergraduate degree programs in Diagnostic Radiology, Medical Laboratory Technology, Forensic Science.

Our college will learn from, build on and respect the past, be active and aggressive in improving the present, but look to the future, and rather than asking “why,” we will ask “why not”








Future perspective included MS, Mphil, and PHD.

FACULTY

Top-Notch Education. Cutting-Edge Research. Outstanding Clinical Capabilities. The College of Technology, LUMHS is a respected leader on all three fronts. Our talented faculty and advanced technology attract trainees and scientists who are among the best and brightest – offering the opportunity to work and train in a dynamic innovative environment which remains personal and accessible. Our mission is simple: to bring scientific advances in medical technology to clinical application. We strive to create an inclusive, engaged environment in which faculty, residents, fellows, medical students and technical staff all learn from each other and freely collaborate with our clinical and basic-science colleagues. We have a team of highly professional and dedicated full time and visiting faculty who have expertise in all fields. Our visiting faculty from abroad have capabilities for online teaching. Most of our faculty members are supervisor and examiners of PHD, MD, MS, MCPS, and FCPS.



FACULTY COLLEGE OF TECHNOLOGY

S. No.	Name	Picture
01	Prof Dr.Munawar Hussain Director College of Technology, LUMHS	
02	Dr. Mir Khuda Bux Assistant Professor COT, LUMHS	
03	Dr. Arshi Naz Assistant Professor COT, LUMHS	
04	Dr. Farhatullah Kandhro Assistant Professor COT, LMUHS	
05	Dr. Majida Baloch Lecturer COT, LUMHS	
06	Dr. Mir Afzal Lecturer COT, LUMHS	
07	Dr. Zafar Shaikh Lecturer COT, LUMHS	



Administrative Staff
College of Technology



Dr. Adeela Mangrio
Administrator Officer



Tehzeen Noor Memon
Office Superintendent



Ms. Sehrish Bhurgari
Senior Office Assistant / Students Coordinator



Mr. Abdul Waheed
Office Assistant



Mr. Majid Ali
Comptuer Operator



Mr. Shoaib-ur-Rehman
Phulmobotist



Muhammad Tariq Khan
Lab. Attendant



ACADEMIC PROGRAMS

The College of Technology, LUMHS, is involved in academics by the conduct of various Undergraduate degree programs.

We are very much determined and focused to launch further undergraduate and postgraduate programs in this year.

Following are Degree / Diploma Programs:

S. No	DEGREE PROGRAMS	Course Duration
1	BS Radiologic Technology (BSRT)	Four Years
2	BS Medical Laboratory Technology (BSMLT)	Four Years
3	BS Forensic Science in Forensic Biology (BSFB)	Four Years
4	Diploma Paediatric Health Care Technician	One Year

ACCREDITATION:

College of Technology, LUMHS is registered with Allied Health Professionals Council of Pakistan where most of our Degree programs are accredited with AHPCP while accreditation of few programs is in process.



EXAMINATION POLICY

FIRST AND SECOND SEMESTER EXAMINATION (1ST YEAR)

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 failed 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 Semesters.
- 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 1st and 2nd semester.

Simultaneously while they remain under study process of third semester.

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

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

Students who failed either in 1st Semester 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 COT 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 of COT, LUMHS.

NOTE:- The system applies to all the semesters in all the four years programs.

INSTRUCTIONS:

All students must wear white apron having college name with LUMHS monogram in their classes, within campus and during their rotation in respective departments.

In order to be eligible to appear in Examination, the students should have secured mandatory 75% attendance and having cleared all dues including tuition fees.

**FREESHIP:**

(ONLY STUDENTS OF College of Technology WILL BE ELIGIBLE TO APPLY SUBJECT TO FULFILLING THE CRITERIA):

10. Free-ship of fees means exemption of paying tuition fee only (full/half). The student who is granted full/ half free-ship of tuition fee shall be required to make full payment for all other subscription/ funds.
11. The Free-ship will grant from 2nd year.
12. Freeship whole/ half of the tuition fees can be allowed by free-ship committee not exceeding more than 10% number of the discipline.
13. The grant of free-ship will depend upon the circumstance of the students to his/ her studies. Absence or failure from professional examination, breach of discipline, neglect of studies or reprehensible conduct shall bring about loss of concession.
14. Fresh application/(s) along with relevant document/(s) shall be invited every year from students they will be submitted through their respective departments.
15. After scrutiny of document/(s) by concerned department/ institute, interview will be conducted from eligible students at Directorate of Academics.
16. Free-ship will be granted on annual basis.
17. Student who is receiving any other scholarship will not be eligible for free-ship.
 - HEC Scholarship
 - Benazir UG Scholarship
 - Diya Scholarship
 - Sind Educational Endowment fund Scholarship (SEEF)
 - Zakat Need Cum Merit Scholarship
18. Student is studying in Self-Finance basis will not be eligible.

ELIGIBILITY CRITERIA:

- a) Orphan Student or Single Parent
- b) Poor Cum Merit-Basis
- c) High Percentage or GPA3+ (EXCEPT TOP TEN POSITION HOLDERS)
- d) Parent/Guardian's income should be up to Rs.50,000/=per month.
- e) Sibling basis free-ship cases will be entertained



LIST OF FACULTY MEMBERS

S.#	SUBJECT	NAME OF TEACHER	DESIGNATION	Department
1	Hematology (BSMLT)	Prof, Dr. Kiran Amir	Professor	Pathology
2	Human Anatomy (All BSRT, BSMLT, AASRT Programs)	Dr. Shagufta Qureshi	Assistant Professor	BMC, LUMHS
3		Dr. Pashmina Shaikh	Assistant Professor	Anatomy Department
4	General Pathology (BSRT)	Dr. Farhatullah Kandhro	Assistant Professor	COT, LUMHS
5	Physiology (BSRT, BSMLT Programs)	Dr. Afsheen Abro	Lecturer	BMC, LUMHS
6	Pakistan Studies (BSRT, BSMLT)	Dr. Muhammad Bux	Lecturer	PNS, LUMHS
7	Sociology (BSRT) & BSMLT	Mr. Manzoor Janwari	Lecturer	PNS, LUMHS
8	English (BSRT, BSMLT Programs)	Ms. Bakhtawar	Lecturer	BMC, LUMHS
9	Computer Skills, (BSRT, BSMLT, Programs)	Mr. Faheem Ahmed Soomro	I.T Trainer	IT Department, LUMHS
10	Regional & Radiological Anatomy-I (BSRT)	Dr. Majida Baloch	Lecturer	COT LUMHS
11		Dr. Zafar Shaikh	Lecturer	COT LUMHS
12	Conventional Radiological Position & Clinical Practice (BSRT)	Dr. Saima Zafar	Lecturer	BMC LUMHS
13	Regional & Radiological Anatomy-I (BSRT)	Dr. Majida Baloch	Lecturer	COT, LUMHS
14		Dr. Zafar Shaikh	Lecturer	COT
15	Interventional Radiology (BSRT)	Dr. Abid Sahito	Assistant Professor	ADC/BMC LUMHS
16	Medical Terminology and Radiological Position BSRT)	Dr. Mir Khuda Bux	Assistant Professor	ADC/BMC, LUMHS
17	Calculus & Lab Mathematics (BS Forensic Science)	Mr. Noor Ahmed	Visiting Lecturere	Hyderabad
18	General Pharmacology (BSRT)	Dr. Shafqat	Assistant Professor	BMC, LUMHS
19		Dr. Hammad	Lecturer	
20	Clinical Chemistry (BSMLT)	Dr. Aisha Waqas	Lecturer	BMC, LUMHS
21	Microbiology, BSMLT & BSRT	Dr. Zahida	Assistant Professor	Pathology Dept: LUMHS
22	Biochemistry & Microbiology (BSMIT)	Dr. Farhatullah Kandhro	Assistant Professor	College of Technology
23	Clinical Chemistry-II (BSMLT)	Dr. Aisha Waqar	Assistant Professor	Pathology Department of LUMHS



24	Microbiology (BSRT-BSMLT)	Dr. Shabnum Rustamani	Lecturer	Pathology Department
25	Clinical Chemistry-II (BSMLT)	Dr Aisha Waqas	Lecturer	BMC, LUMHS
26	Histopathology-1 (BSMLT)	Dr. Rameez	Lecturer	Pathology Dept: LUMHS
27	Radiation science & Technology (BSRT)	Dr. Yousaf	Senior Scientist	NIMRA, LUMHS
28		Dr. Karim Khan	Scientist	NIMRA, LUMHS
29	Surgery (BSRT)	Dr. Mir Afzal	Lecturer	COT, LUMHS,
30	Forensic Psychology, Forensic Anthropology (BS Forensic)	Dr. Isharat Bibi Syed	Assistant Professor	Depart. of Forensic Medicine, LUMHS
31	Radiobiology & radiation Protection (BSRT)	Dr. Karim Khan	Scientist	NIMRA, LUMHS
32	Islamiyat	Ms. Aisha Junejo	Visiting Lecturer	Jamshoro
33	ECG & ECHO (BSRT)	Dr. Ambreen	Senior Registrar	BMC, LUMHS
34	ANGIOGRAPHY (BSRT)	Dr. Maria Qazi	Senior Registrar	BMC, LUMHS
35	SONOLOGY & RADIOLOGICAL PATHOLOGY (BSRT)	Dr. Saima Zafar	Senior Registrar	RADIOLOGY DEPARTMENT
36	Interventional Radiology (BSRT)	Dr. Abid Ali Sahito	Assistant Professor	ADC/BMC, LUMHS
37	CT Procedures and Clinical Practice (BSRT)	Dr. Parkash	Assistant Professor	Radiology Department LUMHS
38	Clinical Sonography (BSRT)	Dr. Saima Zafar	Assistant Professor	Radiology department LUMHS
39	Homicide scene investigation, Forensic Toxicology, Forensic Science In Court Room (BS Forensic)	Prof. Dr. Waheed Ali Nahyoon	Professor	Depart. of Forensic Medicine, LUMHS
40	Forensic Medicine, Medical Jurisprudence (BS Forensic)	Dr. Abdul Samad Memon	Associate Professor	Depart. of Forensic Medicine, LUMHS
41	Forensic Serology, Immunology (BS Forensic)	Dr. Aisha Khalid	Assistant Professor	Depart. of Forensic Medicine, LUMHS
42	Medical Physiology (BS Forensic)	Dr. Mahira Kazi	Lecturer	Depart. of Forensic Medicine, LUMHS
43	Human Anatomy (BS Forensic)	Dr. Nadia Zafar	Lecturer	Depart. of Forensic Medicine, LUMHS
44	Molecular Biology (BS Forensic)	Dr. Memona	Lecturer	Depart. of Forensic Medicine, LUMHS
45	Medical Biochemistry (BS Forensic)	Dr. Ali Raza Memon	Associate Professor	Depart. of Biochemistry, LUMHS
46	Medical Pharmacology (BS Forensic)	Dr. Sadat	Assistant Professor	Pharmacology depart. LUMHS



47	Forensic Entomology, Biosecurity & Microbial Forensics (BS Forensic)	Dr. Abdul Ghani Lanjar	Visiting Faculty	Hyderabad
48	Analytical Chemistry, Instrumental Analysis (BS Forensic)	Dr. Yawar Latif	Technical Staff	Depart. of Forensic Medicine, LUMHS
49	Principles of Forensic Science Forensic DNA Analysis (BS Forensic)	Ms. Rizwana Khanzada	Technical Staff	Depart. of Forensic Medicine, LUMHS
50	Principles of Chemistry Organic Chemistry (BS Forensic)	Dr. Zahid Ali Zounr	Technical Staff	Depart. of Forensic Medicine, LUMHS
51	English (BS Forensic)	Mr. Masroor Ahmed Soomro	Visiting Faculty	Hyderabad
52	Digital Evidence Analysis, (BS Forensic)	Mr. Saqib Hussain Baloch	Manager I.T Network	Dept. of I.T LUMHS
53	Forensic Photography (BS Forensic)	Ms. Shazma Tahseen	Program Coordinatoor I.T	Dept. of I.T LUMHS
54	Research Methodology and Biostatistics (BSRT & BSMLT)	Dr. Shariq Abid	Associate Professor	Medical Research Center, LUMHS
55	MRI Procedures and Clinical Practice (BSRT)	Dr. Parkash	Assistant Professor	ADC/BMC, LUMHS
56	Nuclear Medicine (BSRT)	Dr. Karim Khan	Senior Scientist	NIMRA, Jamshoro
57	Pharmacology (BSRT, BSMLT & AASRT)	Dr. Shafqat Ali Shah PhD, MPhil, Pharm-D	Lecturer	BMC, LUMHS
58	Research Methodology and Biostatistics (BSRT)	Dr. Sharique Abid	Assistant Professor	HOD & Incharge Department of community Dentistry, LUMHS
59	CT Procedures and Clinical Practice (BSRT)	Dr. Parkash	Assistant Professor	ADC/BMC, LUMHS



TEACHING FACULTY

College of Technology

DR ZAHIDA SHAIKH

Assistant Professor
MBBS/DCP (Diploma in clinical
Pathology), M.Phil Microbiology

**Dr. Mir Khuda Bux**

Assistant Professor
Radiology, BMC / Course
Coordinator

**Dr. Mir Afzal**

Lecturer
College of Technology

**DR. YAWAR LATIF**

Ph.D, (Analytical Chemistry),
Medical Technologist, Dept. of
Forensic Medicine Toxicology,
LUMHS

**Dr. Zafar Shaikh**

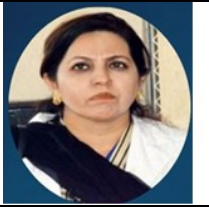
Lecturer
Department of College of
Technology, Bilal Medical College
(for boys) at LUMHS

**Dr. RIZWANA KHANZADA**

M. Phil Microbiology
Ph.D, Fellow (Molecular Biology)
Medical Technologist Forensic
DNA Analysis Dept. of Forensic
Medicine Toxicology, LUMHS

**DR. AISHA KHALID**

MBBS, DGO, MD
Assistant Professor
Dept. of Forensic Medicine &
Technology, LUMHS

**MR.MASROOR AHMED SOOMRO**

Visiting Faculty

**DR. RAMZEEZ IQBAL MEMON**

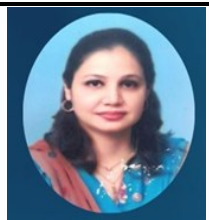
MBBS, M.Phil Haematology
Lecturer, Pathology Department
LUMHS

**DR. FARHAN AHMED SHAIKH**

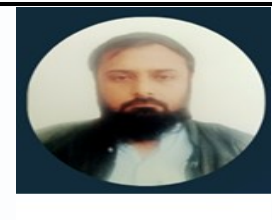
Lecturer
Dept. of Pathology, LUMHS

**DR. ISHRAT BIBI**

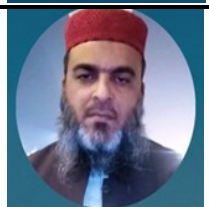
MD Forensic Medicine
Assistant Professor
Dept. of Forensic Medicine &
Technology, LUMHS

**Dr. MUHAMMAD YOUSUF ZAMAN**

Ph.D Physics (Italy), Principal
Scientist, Nimra, Jamshoro

**DR. ABDUL SAMAD MEMON**

MBBS DIP DIAB, DFHC, DMJ, CHPE
Assistant Professor
Dept. of Forensic Medicine &
Technology, LUMHS

**DR. SHARIQ ABID**

Associate Professor
Research Methodology and
Biostatistics, Medical Research
Center, LUMHS





COLLEGE OF TECHNOLOGY

DR. MEMONA NAZ
MBBS, Masters (Molecular
Diagnosis & Genetics Diseases)
UK lecturer, Dept: of Forensic
Medicine & Toxicology, LUMHS



DR. PASHMINA SHAIKH
Associate Professor
Anatomy, LUMHS



DR. ABID ALI SAHITO
MBBS, DMRD, FCPS
Assistant Professor Radiology
BMC, LUMHS



DR. SHAFQAT ALI SHAH
Ph.D, MPhil, Pharm-D
Lecturer



Dr. FARHATULLAH KANDHARO
Assistant Professor
College of Technology, LUMHS



DR. YUSRA SHAFQUAT
MBBS, FCPS (Microbiology)
Assistant Professor,
Dept. of Pathology LUMHS



DR. ARSHI NAZ
Assistant Professor
Ph.D, Biochemistry & Haemostasis,
Hematology, Molecular Biology,
Genetics, Healthcare Management,
Quality Control, Biosafety, CHPE,
MBA(Ongoing) Dept. of Pathology /
College of Technology, LUMHS



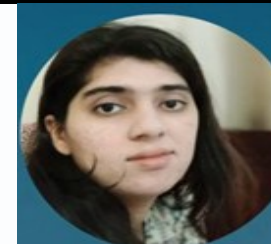
DR. PARKASH
Senior Registrar at BMC
Jamshoro
Working in ADC Jamshoro



DR. AISHA WAQAS
Lecturer
Clinical Chemistry Quality
Assistant Cytology & Cytogenetics
BMC/COT, LUMHS



MISS. BAKHTAWAR
B.S. MPhil, English Literature,
University of Sindh
Lecturer (sub. English) College
of Technology, LUMHS



Dr. Karim Khan
Scientist
NIMRA, LUMHS



Dr. Majida Baloch
Lecturer
College of Technology
LUMHS



MR. NOOR AHMED NAHYOON
Visiting Faculty, Environmental
Forensic





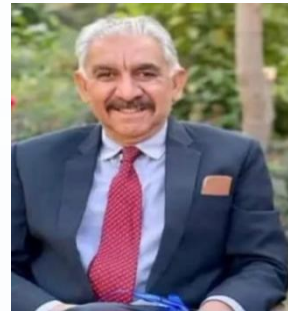
Total number of Credit hours	120 - 135
Duration	4 years
Semester duration	16-18 weeks
Semesters	8
Total Course	40 - 45
Course Load per Semester	15-18 Credit hours
Number of courses per semester	4-6



BS RADIOLOGIC TECHNOLOGY (BSRT) PROGRAM.



Dr. Mir Khuda Bux
Course Coordinator
BSRT Program



Prof. Ghulam Qadir Buledi,
H.O.D, Department of Radiology,
BMC/ADC, LUMHS

The world of medical care is constantly evolving. The methods and the technology used to treat patients improve significantly with each passing year. Accordingly, keeping up with these technological advances is no easy task.

College of Technology, LUMHS provides students with the means needed to begin the path toward a career in healthcare with a professional radiologic technology program. The healthcare industry is growing quickly and the demand for capable, skilled individuals is increasing along with it.

The program consists of training students in the field of diagnostic imaging through a combination of classroom assignments, labs and extensive clinical experience with patients. It also prepares students for the National Certifying Examination by the American Registry of Radiologic Technologists and they will have the opportunity to specialize in a particular field or technology.

The program includes a thorough curriculum requiring as per HEC criteria which encompass general education courses that provide students with a solid foundation in which to confidently build on and core requirement courses including Patient Care Procedures, Radiation Protection & Radiobiology, Image Production & Evaluation, and Radiographic Pathology, which provide students with the critical skills and knowledge used by professional radiological technologists to ensure proper patient care.

Radiologic technologists work with patients who are experiencing some type of health trouble in order to better understand and pinpoint the cause. Knowing that one's efforts are directly translating into the efficient and successful care of patients is a rewarding sensation that only few experience.

A Radiologic Technologist is an integral part of a growing field of health care professionals who are in increasingly high demand. If you're interested in entering the radiologic technology program, where you'll work side by side with the leading professionals in the healthcare field like doctors and nurses, COT, LUMHS is dedicated to your continued educational development. [JOIN US](#) and see how we can support you in creating a new future.



BS RADIOLOGY TECHNOLOGY (BSRT) 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	2+0
		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	17
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	0+6
	BSRT-484	Bio-Ethics	2+0
		Total	12

TOTAL CREDIT HOURS: 132



BS MEDICAL LABORATORY TECHNOLOGY (BSMLT)



Dr. Kiran Aamir
Course Coordinator
BSMLT Program

Dear Prospective BSMLT Students,

It is with great pleasure and enthusiasm that I extend a warm welcome to you as the Course Coordinator of the Bachelor of Science in Medical Laboratory Technology (BSMLT) program. As you consider embarking on this educational journey, I would like to share some insights into what makes our program truly exceptional.

BSMLT is not just a degree; it is a passport to a world of knowledge, innovation, and meaningful impact in the realm of healthcare. Our program is designed to equip you with the skills, expertise, and ethical foundation required to excel in the dynamic field of medical laboratory technology.

Here at LUMHS, we take pride in fostering an environment that encourages critical thinking, hands-on experience, and a commitment to excellence. Our dedicated faculty members are not just educators but mentors who are deeply invested in your success.

Throughout your BSMLT journey, you will delve into the fascinating world of laboratory sciences, where precision and accuracy are paramount. You will gain exposure to cutting-edge technologies and research opportunities that will broaden your horizons and shape your future. Moreover, our program places a strong emphasis on ethics, professionalism, and patient-centered care. We believe that these qualities are just as important as technical proficiency and will set you apart as compassionate and competent healthcare professionals.

As you peruse this prospectus, you will find detailed information about our curriculum, faculty, facilities, and the many opportunities that await you here. Choosing a program for your higher education is a significant decision, and I commend you for considering BSMLT at LUMHS. It is a choice that can lead to a rewarding and fulfilling career dedicated to the well-being of others. In conclusion, I extend my best wishes to you as you contemplate your educational path. Remember that our doors are always open, and we are here to support you in your academic journey. I look forward to the possibility of welcoming you into our BSMLT family and witnessing your growth and achievements. Thank you for considering LUMHS.

Dr. Kiran Aamir



BS MEDICAL LABORATORY TECHNOLOGY (BSMLT) SCHEME OF STUDIES FOR 4-YEARS (BSMLT) PROGRAM

SEMESTER/YEAR	Course #	Name of Subject	Credit
FIRST PROFESSIONAL YEAR			
FIRST	BSMLT-311	Anatomy	2+1
	BSMLT-312	Biochemistry	3+1
	BSMLT-313	Physiology	3+1
	BSMLT-314	English Foundation	2+0
	BSMLT-315	Computer Skills	1+1
	BSMLT-316	Pakistan Studies	2+0
		Total	17
SECOND	BSMLT-321	Clinical Pathology I	3+2
	BSMLT-322	Microbiology I	3+2
	BSMLT-323	English II	2+0
	BSMLT-324	Laboratory Mathematics	2+0
	BSMLT-325	Islamiat	2+0
		Total	16
SECOND PROFESSIONAL YEAR			
THIRD	BSMLT-331	Clinical Pathology-II	3+1
	BSMLT-332	Microbiology-II	3+1
	BSMLT-333	Clinical Chemistry-I	3+1
	BSMLT-334	Clinical Pharmacology	2+1
	BSMLT-335	Sociology	2+0
		Total	17
FOURTH	BSMLT-341	Haematology-I	3+1
	BSMLT-342	Histopathology-I	3+1
	BSMLT-343	Clinical Chemistry-II	3+1
	BSMLT-344	Microbiology-III	2+2
		Total	16



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	3+1
	BSMLT - 355	Body Fluid Analysis	1+1
		Total	17
SIXTH	BSMLT – 361	Immunology / Serology-II	3+2
	BSMLT – 362	Immunoematology	3+1
	BSMLT – 363	Research Methodology	2+2
	BSMLT – 364	Biostatics	2+1
		Total	16
FOURTH PROFESSIONAL YEAR			
SEVENTH	BSMLT - 371	Transfusion Medicine	3+2
	BSMLT - 372	Molecular Biology	2+2
	BSMLT - 373	Advance Clinical Pathology	2+1
	BSMLT - 374	Cytology	3+1
		Total	16
EIGHTH	BSMLT - 381	Health Care Management	3+2
	BSMLT - 382	Research Project	0+8
	BSMLT - 383	Human Genetics	2+1
		Total	16

TOTAL NUMBER OF CREDIT HOURS: 131



FORENSIC SCIENCE IN FORENSIC BIOLOGY (BSFB)



Prof. Dr. Waheed Ali Nahyoon
Chairman
Institute of Forensic Sciences, Forensic
Medicine & Toxicology

Forensic science is all about the preservation and analysis of scientific evidence collected from the crime scene for the purpose of investigation. Experts in forensic science visit the crime scene immediately to collect the scientific evidence, and then they analyse the collected evidence in forensic labs. Forensic science has a close relationship with biology, chemistry, information technology, criminology, biomedical engineering, law, and medical fields. Although it has a close connection with law and investigation, it is basically a kind of applied medical science. A forensic expert must have good knowledge about the local criminal laws. Police, investigation, and law enforcement agencies cannot go forward in many criminal cases without their help. Sometimes they have to appear in court as witnesses, and the opponent's lawyers reserve the right to cross-examine them. So they must have good knowledge about their field and convincing arguments in defense of their reports.

Forensic science in Pakistan

We live in the world of science and technology. Pakistan is falling on the list of top countries with respect to the growth of science and technology. It refers to the investigation and collects details and evidence of criminal activities. There are a few universities in Pakistan that offer forensic science as one of their academic disciplines. The scope of forensic science in Pakistan is very high because of the high ratio of criminal activities. We must require some professional forensic scientists in order to investigate well and truly. Even every state must require a forensic science department in Pakistan in order to investigate the crime. Our police departments are not able to investigate well because it would require some professional forensic officer to investigate and collect true evidence of criminal activity. There are so many government departments in Pakistan that offer employment opportunities in forensic science.

Jobs:

A forensic scientist can easily get a job in any of the departments listed below:

NAB, Intelligence Agencies, Anti-Corruption Department, Forensic Labs, Police Training Colleges, FIA, Armed Forces, Investigation Departments, Military Police Courts, Colleges/ Universities

Prof. Dr. Waheed Ali Nahyoon



BS FORENSIC SCIENCE IN FORENSIC BIOLOGY (BSFB)
SCHEME OF STUDIES FOR 4-YEARS BSFB PROGRAM

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.	
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	
SECOND PROFESSIONAL YEAR			
THIRD	IS-402	Islamiyat	2(2+0)
	EB-402	Ethics[1]	
	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.	
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	
THIRD PROFESSIONAL YEAR			
FIFTH	Course #	Subject	Cr.Hr.
	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	Criminalistics and Crime Scene Investigations	3(3+0)
	FRNSC-517	Environmental Forensics	3(3+0)
		Semester Cr. Hr.	



	Course #	Subject	Cr.Hr.
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
FOURTH PROFESSIONAL YEAR			
	Course #	Subject	Cr.Hr.
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	Course #	Subject	Cr.Hr.
	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	



BS RADIOLOGIC TECHNOLOGY (BSRT)

AIMS:

Bachelor of Science in Radiologic Technology (BSRadTech) is a four year degree program designed to train students how to operate medical imaging equipment such as X-rays, CT scanners, MRIs, sonogram machines, and 3D medical imaging programs among other computer and web- based software programs. Students are also taught how to perform associated clerical duties, including scheduling and maintaining paperwork for office and clinical machinery.

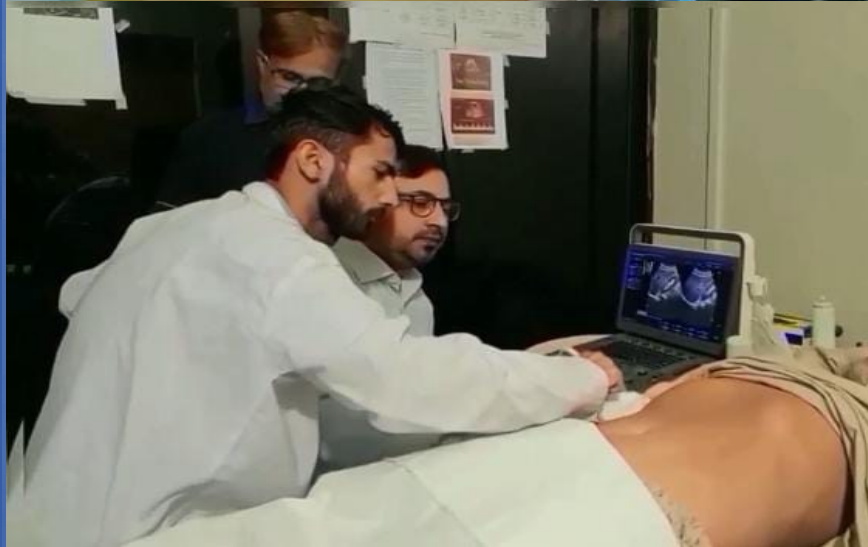
FRAME WORK FOR BS Radiologic Technology

(4 YEAR PROGRAMME)

- ✓ Total number of Credit hours 132
- ✓ Duration 4 years
- ✓ Semester duration 16-18 weeks
- ✓ Semesters 8
- ✓ Course Load per Semester 15-18 Credit hours
- ✓ Numbers of courses per semester 4-6

FRAME WORK FOR BS Radiologic Technology







BS MEDICAL LABORATORY TECHNOLOGY (BSMLT)

INTRODUCTION:

AIMS

Bachelor of Science in Medical Laboratory Technology (BSMLT) is a four-year degree program 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 areas.

FRAME WORK FOR BS MEDICAL LABORATORY TECHNOLOGY (4 YEAR PROGRAMME)

- ✓ Total number of Credit hours 148
- ✓ Duration 4 years
- ✓ Semester duration 16-18 weeks
- ✓ Semester 8
- ✓ Course Load per Semester 15-18 Credit hours
- ✓ Number of Courses per semester 4-6





FORENSIC SCIENCE PROGRAMS

B.S. (Four Year/Eight Semester Program) in B.S in FORENSIC BIOLOGY

Introduction Forensic Science

Forensic Science is all about preservation and analysis of scientific evidence collected from the crime scene for the investigation purpose. Experts of forensic science visit the crime scene immediately for collecting the scientific evidences, and then they analyze the collected evidences in forensic labs. Forensic Science has close relation with Biology, Chemistry, Information Technology, Criminology, Bio-medical Engineering, Law and Medical fields. Although it has close connection with law and investigation but basically it is a kind of applied medical science. Forensic expert must have good knowledge about the local criminal laws. Police, investigation and law enforcement agencies cannot go forward in many criminal cases without their help. Sometimes they have to appear in court as witness and opponent lawyers reserve the right to cross examine them. So, they must have good knowledge about their field and convincing arguments in defense of their reports.

A forensic scientist can easily get job in any of the department listed below:

- ✓ NAB
- ✓ Intelligence Agencies
- ✓ Anti-Corruption Department
- ✓ Forensic Labs
- ✓ Police Training Colleges
- ✓ FIA
- ✓ Armed Forces
- ✓ Investigation Departments
- ✓ Military Police
- ✓ Courts





STANDARDIZED FORMAT FOR BS (4-YEAR) IN FORENSIC SCIENCE

FRAME WORK FOR BS IN FORENSIC SCIENCE (4 YEAR PROGRAMME)

(As per HEC National Qualifications Framework of Pakistan 2015)

- ✓ Total numbers of Credit hours 124-140
- ✓ Duration 4 years (8 semester)
- ✓ Semester duration 16 to 18 weeks
- ✓ Semesters 8
- ✓ Course Load per Semester 4-6 (not more than 3 lab/Practical)
- ✓ Number of courses per







B.S. MEDICAL TECHNOLOGY (NEUROSCIENCES)



Prof. Dr. Manzoor Ali Lakhair
HOD & Chairman
Department of Neurology
LUMHS Jamshoro



Dr. Muslim Ali Lakhair
Associate Professor Neurology
Course Director



Dr. Sajid Hussain
Senior Registrar BMC



Introduction and Program Highlights

Liaquat University of Medical & Health Sciences seeks to be a top-tier healthcare institution, producing ingenious academic leaders, medical researchers, and healthcare advocates to serve global community.

Fostering ideal learning environment to ensure modern scientific evidence based practices by imparting critical knowledge, analytical and psychomotor skills, and professional dedication among healthcare students, under the umbrella of virtuous professional, moral and ethical standards.

Neurosciences is a multidisciplinary field dedicated to the study of the brain, spinal cord, and peripheral nervous system. A key subspecialty within this discipline is Neurophysiology, which focuses on the functioning of the nervous system, often using advanced electrophysiological tools. Neurophysiologic and polysomnographic technologists play a crucial role in assisting physicians with the diagnosis of conditions affecting the brain, spinal cord, peripheral nerves, and sleep disorders.

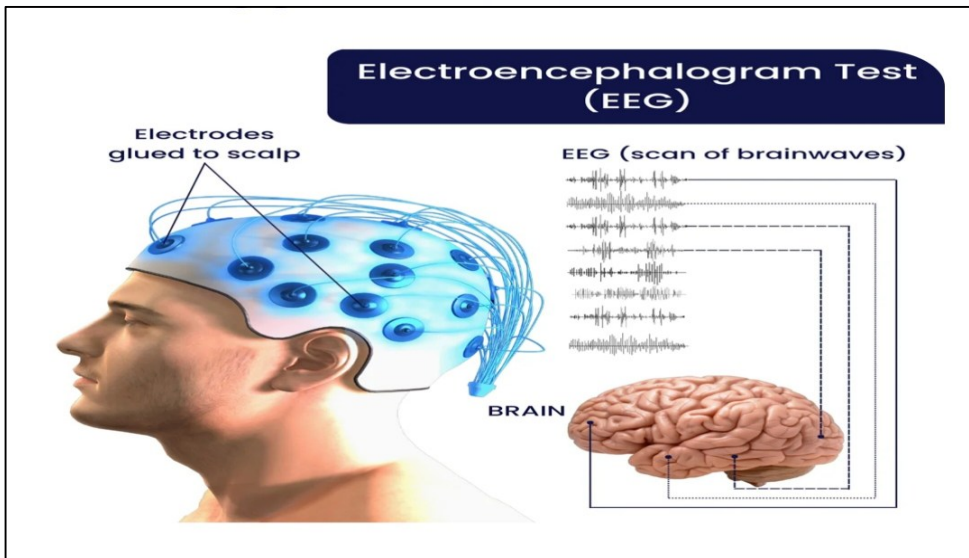
The BS in Medical Technology (Neurosciences) program at Liaquat University of Medical Health Sciences offers comprehensive academic and practical training in neurodiagnostic and polysomnographic technologies. Students are introduced to a wide range of neurophysiological testing methods and sleep study procedures, preparing them for a dynamic career in neurohealthcare. Students participate in structured teaching and training at Liaquat University of Medical Health Sciences Hospital's neurodiagnostic laboratory. In this BS MTN program you experience the application of neurophysiological techniques in real clinical environments such as EEG labs, EMG suites and ICUs setup. Through guided observation of procedures like EEGs, nerve conduction studies, sleep monitoring, students gain valuable exposure to the equipment, protocols, and interdisciplinary teamwork essential to the field. These experiences are integrated after each semester examination and continue throughout the duration of the undergraduate program, ensuring steady progress in both understanding and professional confidence.

As you peruse this prospectus, you will find detailed information about our curriculum, faculty, facilities, and the many opportunities that await you here. Choosing a program for your higher education is a significant decision. It is a choice that can lead to a rewarding and fulfilling career dedicated to the well-being of others. In conclusion It is a great pleasure that I extend my warm welcome to you in this degree program of the bachelors science in medical technology (Neuroscience) BS MTN., I extend my best wishes to you for your educational path and academic excellence.

Prof. Dr. Manzoor Ali Lakhair
HOD & Chairman
Department of Neurology
LUMHS Jamshoro



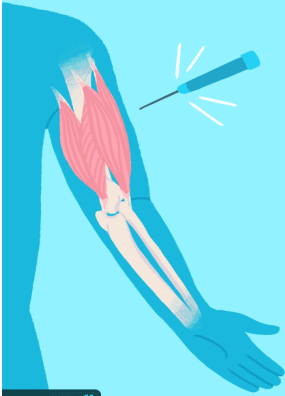
FRAMEWORK FOR FOUR YEARS B.S. MEDICAL TECHNOLOGY (NEUROSCIENCES)	
Total number of Credit hours	133
Duration	4 years
Semester Duration	16 -18 weeks
Total Courses	40-45
Course Load per Semester	15-18 Credit hours
Number of courses per semester	4-8





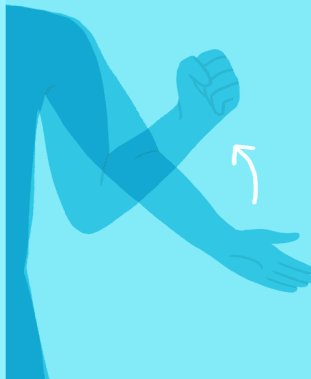
What to Expect During an Electromyography Test

1. Needle electrode inserted into muscle



verywell

2. Neurologist tells you when to contract and rest muscle



3. Needle records muscle activity during rest and movement



**BS MEDICAL TECHNOLOGY (NEUROSCIENCES)****SCHEME OF STUDIES**

Semester / Year	Course #	Name of Subject	CreditHrs	Total Credit Hrs
FIRST PROFESSIONAL YEAR				
FIRST	BSNS-211	Basic Health Sciences I	3+1	17
	BSNS-212	Basic Health Sciences II	2+1	
	BSNS-213	Professional Ethics & Behavior	1	
	BSNS-214	Basic Infectious control	1	
	BSNS-215	Medical Terminology	2	
	BSNS-216	English	3	
	BSNS-217	Mathematics	2	
	BSNS-218	Islamiyat	1	
SECOND	BSNS-221	Biochemistry	3	17
	BSNS-222	General Microbiology	2	
	BSNS-223	Computer Literacy	2+1	
	BSNS-224	Physics	2	
	BSNS-225	Biostatistics	2	
	BSNS-226	Communication Skills	3	
	BSNS-227	Pakistan Studies	1	
	BSNS-228	Basic Pharmacology	1	
SECOND PROFESSIONAL YEAR				
THIRD	BSNS-231	Neuro-anatomy	3+1	17
	BSNS-232	Neuro-Physiology	3+1	
	BSNS-233	Neuro-Pharmacology	2	
	BSNS-234	Principles of Patient Care	2+1	
	BSNS-235	Clinical Practicum	4	
FOURTH	BSNS-241	Bio-Safety	3	16
	BSNS-242	Fundamentals of Neurosciences Techniques	2+1	
	BSNS-243	Anatomical & Physiological Basis of Electroencephalography (EEG) Theory	2	
	BSNS-244	Introduction to Electroencephalography	2+1	
	BSNS-245	Neuropathophysiology (Theory)	2	
	BSNS-246	Clinical Practicum	3	



Semester / Year	Course #	Name of Subject	Credit Hrs	Total Credit Hrs
THIRD PROFESSIONAL YEAR				
FIFTH	BSNS-251	Clinical Applications of Electroencephalography	3+1	16
	BSNS-252	Communication Skills	2	
	BSNS-253	Introduction to Evoked Potentials	3+1	
	BSNS-254	Neuropathies - Basics	2+1	
	BSNS-255	Clinical Practicum	3	
SIXTH	BSNS-261	Technical and Business Writing	2	17
	BSNS-262	Fundamentals of Electromyography	3+1	
	BSNS-263	Fundamentals of Nerve Conduction Studies	3+1	
	BSNS-264	Advanced Evoked Potentials	3+1	
	BSNS-265	Neuropathies - Advances	2+1	
FOURTH PROFESSIONAL YEAR				
SEVENTH	BSNS-271	Clinical & Technical Findings of Electromyography (Theory)	3+1	16
	BSNS-272	Fundamental Techniques of Nerve Conduction Studies	3+1	
	BSNS-273	Intraoperative Neurophysiologic Monitoring (Theory)	2	
	BSNS-274	Sleep Studies - Basics	2+1	
	BSNS-275	Clinical Practicum	3	
EIGHTH	BSNS-281	Biostatistics -II	3	17
	BSNS-282	Long-Term Electroencephalographic Monitoring (Theory)	3	
	BSNS-283	Role of Electroencephalography in Neonates	2+1	
	BSNS-284	Sleep Studies - Advances	2+1	
	BSNS-285	Emerging Techniques of Neurosciences (Theory)	2	
	BSNS-286	Clinical Practicum	3	



DIPLOMA PAEDIATRIC HEALTH CARE TECHNICIAN

INTRODUCTION

Pediatricians practice in many different settings, including primary, secondary and tertiary care. All need 'specialist' skills pertinent to that work, and thus specialist training. This syllabus seeks to set a road map to aid trainees and supervisors in this quest. It focuses on hospital-based Paediatrics but clearly interfaces with primary and tertiary care.

The purpose of this syllabus is to ensure that those completing common trunk training have excellent communication and interpersonal skills, display paediatric expertise in terms of history taking, examination and performance of procedures, are professional and focused on patient safety and harm reduction, develop leadership and teamwork skills and a commitment to lifelong learning.

Core paediatric training has three key elements:

1. Clinical experience gained from **direct patient care**, supervised by **senior clinicians** and based on a **clinical curriculum** with a focus on **excellent clinical skills, sound decision making** and the **judicious use of investigations**. On completion of the training, the candidate should be competent to look after the most common paediatric conditions.
2. Professional and ethical practice learnt through mentorship by senior clinicians with a commitment to quality improvement and harm reduction in both the inpatient and ambulatory settings.
3. Academic knowledge and proof of clinical ability as determined by various assessment tools. Trainees will be assessed at intervals throughout the Programme in the workplace. These assessments must be recorded.

Training Programme Requirements:

- Training must take place within a ONE-YEAR training programme.
- There will be 2 semester (total one year)

GENERAL GOALS OF THE PEDIATRIC TECHNICIANS TRAINING PROGRAM

The **general goals** of core training include the acquisition of skills, knowledge and attitudes in relation to seven key areas:

1. Communication and interpersonal skills
2. Ethics and professionalism
3. Patient safety and quality improvement
4. Paediatric expertise (clinical skills/procedures/investigation / interpretation)
5. Teamwork and collaborative skills
6. Leadership, management skills and a commitment to lifelong learning



1. Communication and interpersonal skills

Good communication is a core clinical skill for pediatricians, utilizing effective listening and nonverbal cues.

Trainees should learn to:

- 1.1. Establish a positive therapeutic relationship with children/adolescents and their families in an age-appropriate manner.
- 1.2. Respect patient confidentiality, privacy, autonomy and ability to consent.
- 1.3. Communicate relevant understandable information and provide support in a crisis situation.
- 1.5. Develop a common understanding of issues, problems and plans with patients, families, and other professionals to develop a shared plan of care.
- 1.6. Convey effective oral and written information about a medical encounter, to families and their professionals.

2. Ethics and professionalism

Trainees must learn to display the following:

- 2.1. Compassion, integrity, and respect for others
- 2.2. Sensitivity and responsiveness to a diverse patient population, including diversity in gender, age, culture, race, religion, and disability
- 2.3. Responsiveness in situations where the well-being of the child is endangered/compromised
- 2.4. Accountability to patients, society and the profession

3. Patient safety and quality improvement

Trainees should

- 3.1. Participate in activities that contribute to effectiveness/quality of the healthcare system and patient safety.
- 3.2. Commit to quality assurance through systemic quality process evaluation and improvement.
- 3.3. Maintain their own health and that of the team they work with.

4. Paediatric expertise

This is covered in the syllabus below.

5. Teamwork and collaborative skills

Trainees should:

- 5.1. Participate appropriately in a professional healthcare team to achieve optimal patient care.
- 5.2. Maintain respect for the views of colleagues in a range of paediatric roles.
- 5.3. Maintain effective time management skills.
- 5.4. Ensure proper handover, referral and discharge planning.
- 5.5. Understand the effects of national and international policies on child health.

6. Leadership, management skills and a commitment to lifelong learning

Trainees should learn to:

- 6.1. Effectively delegate and follow up on tasks, be able to manage stressful situations and know when to ask for help.
- 6.2. Deliver the highest quality of care.
- 6.3. Manage tasks including prioritizing, and assigning

**RESPONSIBILITIES OF PEDIATRIC TECHNICIANS**

1. To assist Pediatricians
2. To assist the procedure in the pediatric department
3. Know about the use of incubator, Oxygen cylinder / flow meter, sterilizer, Phototherapy light, bubble CPAP, Warmer, I/V Cannula, Feeding tube, catheter and scalp needle
4. To maintain a tetanus room
5. To know about the common pediatric diseases like:
 - Poliomyelitis
 - Tuberculosis
 - Diphtheria,
 - Pertussis
 - Tetanus
 - Measles
 - Pneumonia
 - Meningitis
 - Anemia
 - Malaria
 - Malnutrition
 - Diarrhea
 - Dysentery
6. To know about the storage of vaccines and its administration
7. To know the way of given vitamin A supplement
8. To know about IMNCI
9. To perform CPR in children
10. To know about the drug use in pneumonia and diarrhea
11. To know the basic knowledge of anatomy and physiology of various systems
12. To know about the vital signs like respiratory rate, heart rate, blood pressure, temperature and oxygen saturation
13. To know about the maintenance of emergency tray and use of emergency drugs.
14. To counsel the mother / parents regarding the prevention of diseases in children

Diploma Course for Pediatric Health Care (Scheme of Studies)			
Semester / Year	Course #	Name of Subject	Credit
First Professional Year			
First	DPHT-911	Pediatric Health Care-I	6+9
Second	DPHT-912	Pediatric Health Care-II	6+9
TOAL			30



Molecular Biology

&

Genetics



MBGD

LIAQUAT UNIVERSITY OF MEDICAL AND HEALTH SCIENCES



Introduction

Molecular biology & Genetics is a rapidly developing field of biological sciences that involves the study of organisms on a cellular and molecular level. It has many important applications such as biomedical sciences, molecular medicine, disease prevention and treatment, generation of new protein products, and manipulation of plants and animals for desired phenotypic traits. The study of living things at molecular and genetic levels have undergone tremendous development and expansion in the last two- three decades, and as a result undergraduate education in topics such as molecular cell biology, molecular genetics and genomics are becoming of higher interest.

Genetics and Molecular Biology program at LUMHS offers a Bachelor of Science degree upon completion of a 4-year curriculum taught in English. Students will be mainly educated in molecular biology and various fields of genetics that are designed to train students for post graduates studies in the related fields. In addition, optional courses include other fields of biology such as immunology, Physiology, Microbiology, Pharmacology, Epidemiology and Bioinformatics.



Goal:

Students will be introduced to general and foundation courses of Genetics and Molecular biology. The specialized courses provide in-depth knowledge in various aspects of genetics and molecular biology, both in theory and in practice through laboratory experience. Students will also be offered several elective options in order to further develop themselves according to their own interests, such as in fields of Stem cells, Gene Therapy, Forensic Biology and Endocrinology.

Students of the Genetics and Molecular Biology program will benefit from the state of the art laboratories of LUMHS, computer and audio-visual technology facilities, University library to follow the latest developments in the biological sciences and other relevant fields. Students of the program will be offered the opportunity to take part in projects carried out by the department academic staff. This will enhance their ability to understand the genomics revolution that is changing the face of all biological and biomedical areas of the science.

Objectives:

The objectives of 4 year BS in Genetics and Molecular Biology are:

- To provide students with a solid foundation through coursework and practical training.
- To develop skilled human resource with basic understanding of the subject of molecular biology and fundamentals of classical as well as modern molecular genetics.

Career Opportunities

Following the successful completion of the 4-year undergraduate studies, program graduates will receive a Bachelor of Science (B.S.) degree in Genetic and Molecular Biology. Upon receiving this degree, graduates will have the necessary foundation for further education in post-graduate programs. In addition graduates will have the opportunity to find employment in variety of fields including teaching, clinical genetics, bioinformatics, pharmaceutical and biotechnology industries, private diagnostic laboratories and research institutes.



Prof. Dr. Ali Muhammad Waryah (M.phil, PhD)
Professor / Head of Department
Department of Molecular Biology & Genetics
Liaquat University of Medical & Health Sciences
Jamshoro



Dr. Shakeel Ahmed Shaikh (MBBS, PhD)
Associate Professor
Department of Molecular Biology & Genetics
Liaquat University of Medical & Health Sciences
Jamshoro



Dr. Feriha Fatima Khidri (MBBS, PhD)
Associate Professor
Department of Molecular Biology & Genetics
Liaquat University of Medical & Health Sciences
Jamshoro



Dr. Suleman Peerzado (MBBS, PhD)
Assistant Professor
Department of Molecular Biology & Genetics
Liaquat University of Medical & Health Sciences
Jamshoro



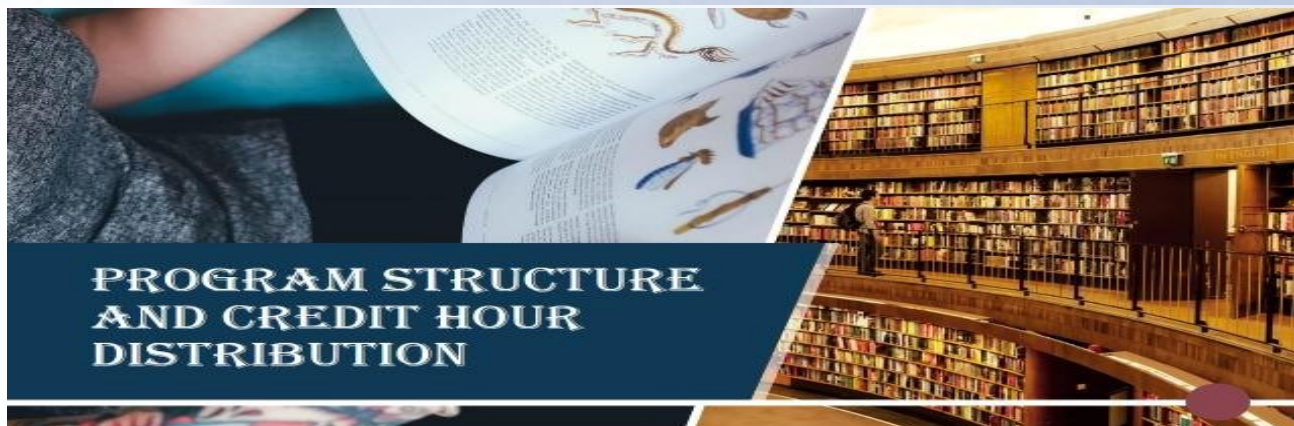
Dr. Mahesh Kumar (MBBS, PhD)
Assistant Professor
Department of Molecular Biology & Genetics
Liaquat University of Medical & Health Sciences
Jamshoro



Dr. Ali Raza Rao, PhD
Department of Molecular Biology & Genetics
Liaquat University of Medical & Health Sciences,
Jamshoro



Dr. Hina Shaikh, PhD
Department of Molecular Biology & Genetics
Liaquat University of Medical & Health Sciences
Jamshoro



**PROGRAM STRUCTURE
AND CREDIT HOUR
DISTRIBUTION**

Sr.	Courses	No of courses	Cr. Hr.
1	Compulsory courses	09	25
2	General courses	09	27
3	Discipline specifies courses	10	30
4	Major courses	13	42
5	Elective within the Major	04	12
	Total	45	136

**SCHEME OF STUDIES FOR BS MOLECULAR BIOLOGY & GENETICS
(04 YEARS PROGRAM)**

Semester / Year	Course	Code	Subject Credits	
FIRST	Compulsory-I	MBG101	English-I (Functional English)	03
	Compulsory-II	MBG102	Pakistan Studies	02
	Compulsory-III	MBG103	Mathematics	03
	General I	MBG104	Biochemistry-I	2+1
	General II	MBG105	Human Physiology-I	2+1
	Foundation-I	MBG106	Molecular Biology-I	2+1
				17
SECOND	Compulsory IV	MBG201	English-II (communication English)	03
	Compulsory V	MBG202	Islamic Studies	02
	Compulsory VI	MBG203	Biostatistics	03
	General III	MBG204	Biochemistry-II	2+1
	General-IV	MBG205	Human Physiology-II	03
	Foundation-II	MBG206	Molecular Biology II	03
				17



MOLECULAR BIOLOGY & GENETICS

THIRD	Compulsory VII	MBG301	Introduction to Computer Sciences	03
	Compulsory VIII	MBG302	English-III (Technical Writing and Presentation Skills)	03
	General-V	MBG303	Cell Biology	2+1
	General-VI	MBG304	Basic Microbiology	2+1
	Foundation-III	MBG305	Essentials of Genetics	2+1
	Foundation-IV	MBG306	Biotechnology	2+1
				18
FOURTH	Compulsory XI	MBG401	English-IV/Foreign Language Univ. Optional	2+1
	General-VII	MBG402	Basic Immunology	2+1
	General-VIII	MBG403	Basic Epidemiology	2+1
	Foundation-V	MBG404	Human Genetics and Chromosomal Disorders	2+1
	Foundation-VI	MBG405	DNA Damage and Repair	2+1
	Foundation-VII	MBG406	Biosafety and Risk Management	2+1
				18
FIFTH	General-XI	MBG501	Molecular Pharmacology	2+1
	Foundation-VIII	MBG502	Cancer Biology	2+1
	Foundation-IX	MBG503	Cell & Tissue Culture	2+1
	Major- I	MBG504	Epigenetics	2+1
	Major- II	MBG505	Cell Signaling	3+0
	Major- III	MBG506	Immunogenetics	2+1
				18
SIXTH	Foundation- X	MBG601	Bioinformatics	1+2
	Major- IV	MBG602	Genomics	2+1
	Major- V	MBG603	Molecular Virology	2+1
	Major- VI	MBG604	Bio Molecule Diagnostics	1+2
	Major- VII	MBG605	Molecular to the Market	3.0
	Major-VIII	MBG606	Recombinant DNA Technology	2+1
				18
SEVENTH	Major- IX	MBG701	Plant Physiology	2+1
	Major- X	MBG702	Proteomics	2+1
	MajorXIII	MBG703	Bionanotechnology	2+1
	Elective-I	MBG704	Molecular Toxicology	2+1
	Elective-II	MBG705	Vaccinology	2+1
				18
EIGHT	Major- XI	MBG801	Stem Cell and Gene Therapy	2+1
	Major-XII	MBG802	Transcriptomics	2+1
	Elective-III	MBG803	Forensic Biology	03
	Elective-IV	MBG804	Plant Molecular Genetics	2+1
	MajorXIII	MBG805	Research Project / Internship	2+1
				15
	Total	Credit Hours		136



INSTITUTE OF BIO-MEDICAL ENGINEERING & TECHNOLOGY



Director's Message

"Desire sets the goal, decision creates the plan, but it is unwavering determination that achieves the ultimate success."

It is great pleasure that I announce the commencement of the B.S Biomedical Engineering program at institute of Biomedical engineering and Technology (IBET), LUMHS for the 2025 academic session. Selecting the right institution for your education is a pivotal decision, and I am confident that IBET will be a choice you cherish, especially if you are driven and committed to excellence.

Our institute has undergone remarkable growth over the past 14 years, evolving into a hub of innovation and excellence. We combine state-of-the-art facilities with a passionate and skilled faculty dedicated to nurturing your intellectual curiosity and practical skills. At IBET, we emphasize a holistic approach to learning, blending rigorous academic training with hands-on experience to prepare you for the dynamic field of biomedical engineering. We are devoted to supporting you in your academic journey and beyond, offering a range of opportunities to excel both in the classroom and in extracurricular activities. Success in this field demands vision, perseverance, hard work, and discipline—qualities we believe are cultivated here at IBET.

As you embark on this exciting path, we are confident that, after four years, you will emerge as a capable and innovative Biomedical Engineer. We look forward to witnessing your growth and achievements and are here to support you every step of the way.

Welcome to IBET, where your future in biomedical engineering begins.

Engr. Muhammad Ali Bohyo
Director IBET LUMHS



(I.B.E.T)

INSTITUTE OF BIO-MEDICAL ENGINEERING & TECHNOLOGY



Message from the Head of the Department



Biomedical engineering is an emerging field of the future that utilizes engineering principles, analytical practices, and design concepts for the healthcare industry which in result improves the quality of human life.

Keeping in view the future need of the nation, HEC initiate the BME workshop in LUMHS, which grows by time and become an institute of Biomedical Engineering that become a house for more than 150 students and 15 highly skilled and qualified faculty members.

The field of Biomedical Engineering is becoming more popular due to the high demand for health care experts, scientists, technical staff, and engineers during pandemic COVID-19. Biomedical Engineers are the experts that develop devices like Ventilators, respirators, Vital Sign monitors, and SpO2 monitors to help Doctors in their diagnoses.

Currently, the Institute of Biomedical Engineering offers a BS in Biomedical Engineering. I invite you to visit the institute and get in touch with the most diverse and energetic students and faculty members and learn more about the Biomedical Engineering program and future research activities. If you have any questions or wish to explore more, please do not hesitate to search out to the department. We look forward to hearing from you.

Engr. Dr. Sarmad Shams (Ph.D.)
 Head of the Department
 Department of Biomedical Engineering
 IBET, LUMHS, Jamshoro



INSTITUTE OF BIOMEDICAL ENGINEERING & TECHNOLOGY (IBET)

The Institute of Biomedical Engineering & Technology came into existence in March 2009. It was originally sanctioned by Higher Education Commission, Islamabad as Biomedical Equipment Repair Workshop in March 2006 to provide technical assistance for troubleshooting of Biomedical Equipment's at public sector medical institutions. The need for biomedical experts in Sindh has been felt from a long time. In order to settle this problem, the university decided to take full benefit of the repair workshop by converting the same into Biomedical Institute to utilize its full potential. The idea behind the proposal was to integrate the practical skills with proper academic support, then combine and develop a tool to generate fruitful technical human resource not only to provide benefits of repair but also produce genuine technologist.

VISION OF THE IBET

To contribute as a worldwide leading institution, committed to develop and implement the advanced technology using engineering knowledge to transform the healthcare system of Pakistan.

MISSION STATEMENTS OF THE IBET

- To provide the fundamental knowledge, skills and professional experience education that prepares students to lead, innovate, and self-educate throughout their careers in bio-engineering and biomedical professions and industries.
- To contribute towards society through the pursuit of education, and to bridge the gap of skill, learning and research between advance countries and Pakistan.

The Institute started the B.S program in Biomedical Engineering from 2012, under the recognition of Higher Education Commission (HEC) and Pakistan Engineering Council (PEC). This program consists of four (04) Years comprising of two (02) semesters per year.

The aim behind the establishment of this institute was to create diligent and proficient engineers as well as to create job opportunities in public sector organizations including hospitals, universities etc.

FACILITIES AT THE INSTITUTE

- DSP/Microprocessor Lab
- Biomechanics/Fluid Mechanics Lab
- Telemedicine/Computing Lab
- Biomedical Instrumentation Lab
- Electrical & Electronics Lab
- Biomedical Workshop
- Air-conditioned classes with Smart Board
- Seminar Hall
- Library
- Online e-books and journals
- Transport facility
- Tuck Shop



Faculty Members

- **Engr. Muhammad Ali Bohyo**
Director
I.B.E.T, LUMHS, Jamshoro
- **Dr. Sarmad Shams**
Professor
Head of Department
Department of Biomedical Engineering
I.B.E.T, LUMHS, Jamshoro
- **Dr. Muhammad Fahad Shamim**
Associate Professor
I.B.E.T, LUMHS, Jamshoro
- **Engr. Sarfaraz Khan**
Lecturer, I.B.E.T,
LUMHS, Jamshoro
- **Engr. Saeed Ahmed Maitlo**
Lecturer, I.B.E.T,
LUMHS, Jamshoro
- **Engr. Sehreen Moorat Gopang**
Lecturer, I.B.E.T,
LUMHS, Jamshoro
- **Mr. Muhammad Siddique Raza**
Lecturer, I.B.E.T,
LUMHS, Jamshoro.
- **Engr. Muhammad Furqan**
Lecturer, I.B.E.T,
LUMHS, Jamshoro.
- **Engr. Murk Rehman**
Lecturer, I.B.E.T,
LUMHS, Jamshoro
- **Engr. Natasha Mukhtiar**
Lecturer, I.B.E.T,
LUMHS, Jamshoro.
- **Engr. Murk Saleem**
Lecturer, I.B.E.T,
LUMHS, Jamshoro.
- **Engr. Sasuee Khatoon**
Lecturer, I.B.E.T,
LUMHS, Jamshoro.
- **Engr. Laraib Kehar**
Lecturer, I.B.E.T,
LUMHS, Jamshoro.
- **Engr. Asad Rajpar**
Lecturer, I.B.E.T,
LUMHS, Jamshoro.
- **Engr. Saleha**
Lecturer, I.B.E.T,
LUMHS, Jamshoro.

Visiting Faculty

- **Dr. Sadia Effindi**
Lecturer, Anatomy,
LUMHS, Jamshoro
- **Dr. Javeria**
Lecturer, Physiology,
LUMHS, Jamshoro.
- **Dr. Ali Raza**
Lecturer, Biochemistry
LUMHS, Jamshoro.
- **Ms. Sana Zulfiqar**
Islamic Studies/Ethics



THE PROGRAMME AT IBET

The Institute of Biomedical Engineering and Technology (IBET) offering following program at undergraduate level.

1. BS in Biomedical Engineering
2. BS in Business and Information Technology
3. Postgraduate program
 - i. Master of Philosophy in Biomedical Sciences (M.Phil. BMS)
 - ii. Master of Science in Biomedical Engineering (MS BME)
 - iii. Doctor of Philosophy in Biomedical Engineering (PhD BME)
 - iv. Doctor of Philosophy in Biomedical Sciences (PhD BMS)

The Institute of Biomedical Engineering and Technology (IBET) at LUMHS aspires to be a premier global institution, driving progress through cutting-edge technology and engineering knowledge to improve healthcare outcomes. The program aims to equip students with a robust foundation in biomedical engineering, offering them the expertise needed to excel in both local and international contexts.

Through this postgraduate initiative, LUMHS seeks to address the educational and research gaps between advanced countries and Pakistan, providing students with comprehensive knowledge and practical skills. The curriculum covers a range of advanced topics in biomedical engineering, preparing graduates to lead, innovate, and contribute effectively to the healthcare industry. This endeavor reflects LUMHS's dedication to The institute ensure to update the courses on regular basis to keep abreast with new knowledge and development. Therefore, students who underwent with the latest technological knowledge and practical excel after the graduation from the institute.

BS BIOMEDICAL ENGINEERING

Biomedical engineering is an interdisciplinary area in which engineering expertise and design concepts are applied to problem solving in the life sciences and medicine. This Program focuses on understanding complex living systems and use of technology and advance systems to improve diagnosis and treatment.

Biomedical Engineering Program prepares students for productive careers and diverse profession including medical devices, pharmaceuticals biotechnology as professional education, and research. Biomedical Engineers have developed a number of life-enhancing and life-saving technologies including diagnostics, Therapeutic equipment, life supporting devices, surgical devices and systems, vital sign monitoring devices and prosthetics.

Biomedical Engineers works with a broad range of profession, ranging from other engineering specialties to basic laboratory scientist, to physician and nurses, and have strong communication skills that makes biomedical engineer the general interpreter for such a widely educated individual; the one who knows the language of both engineering and medicine.

THE SCOPE & JOB PROSPECTS

Biomedical Engineering is one of the emerging fields which combines Engineering expertise with the needs in the medical industry for the growth and development of the healthcare sector. It is the unique branch of Engineering in which the concepts, knowledge, expertise and skills are designated and applied to the field of biology and medicine in order to meet the daily challenges. The field of biomedical engineering, as the term implies, includes the mathematical modelling of the biological systems, design and computation of the algorithms which help to analyze biological signals, bioinformatics, biomechanics, applications of micro-electromechanical systems, molecular engineering, nanotechnology and development of signal processing and control algorithms of artificial parts of the body.

- A biomedical engineer carries out various functions within the biomedical engineering industry and other institutions such as hospitals, healthcare organizations and teaching institutions.



- They design the sleek computer systems which help to monitor patients during the different stages of the hospital care. Moreover, they also build the systems to monitor the health aspects of the healthy persons.
- They design and build the complex sensors to measure blood chemistry, such as sodium and pH.
- They design the instruments and devices for the therapeutic uses for example the device for the eye surgery.
- They design clinical laboratories and automate different units within the hospitals and other health care delivery systems using the advanced engineering technologies.
- They design, build and investigate the medical imaging systems based on X-rays (Computer Assisted Tomography), Magnetic Fields (Magnetic Resonance Imaging), Ultrasound or newer modalities.
- They develop and implement the mathematical models of physiological systems for example they design and construct biomaterials and find out the mechanical, transport and biocompatibility properties of implantable materials
- They investigate the Bio - Mechanics of injury and wound healing.
- They develop new horizons in sports engineering in order to restore complicate sports technique and to reduce workload of coaches in efficient way.
- Design systems and products, such as artificial internal organs, artificial devices that replace body parts, and machines for diagnosing medical problems
- Install, adjust, maintain, repair, or provide technical support for biomedical equipment.
- Evaluate the safety, efficiency, and effectiveness of biomedical equipment
- Train clinicians and other personnel on the proper use of equipment.
- Work with life scientists, chemists, and medical scientists to research the engineering aspects of biological systems of humans and animals.

PROGRAM EDUCATIONAL OBJECTIVES

The three program educational objectives (PEOS), as given below, form the basis of the B.S Biomedical Engineering Program at Institute of Biomedical Engineering and Technology LUMHS. The PEOs were formulated in the consultation with the members of faculty and were adapted by the institute of biomedical engineering for the implementation of outcome-based education (OBE).

Within the period of the graduation, the students with BS in Biomedical engineering are expected to attain the following objectives:

PEO-1: Apply the knowledge of mathematics, science, engineering fundamentals and create enabling technologies for the improvement of human health and health sciences.

PEO-2: Enhance students' intellectual and analytical abilities in taking initiative and/or developing innovative ideas for technological and professional growth in the field of Biomedical Engineering.

PEO-3: Work effectively as a team member or lead multidisciplinary teams while demonstrating the interpersonal and management skills, ethical, social, and environmental responsibilities.



PROGRAM LEARNING OUTCOMES (PLO)

1. **ENGINEERING KNOWLEDGE**
An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
2. **PROBLEM ANALYSIS**
An ability to identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. **DESIGN / DEVELOPMENT OF SOLUTIONS**
An ability to design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
4. **INVESTIGATION**
An ability to investigate complex engineering problems in a methodical way including literature survey, design and conduct of experiments, analysis and interpretation of experimental data, and synthesis of information to derive valid conclusions.
5. **MODERN TOOL USAGE**
An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering activities, with an understanding of the limitations.
6. **THE ENGINEER AND SOCIETY**
An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solution to complex engineering problems.
7. **ENVIRONMENT AND SUSTAINABILITY**
An ability to understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
8. **ETHICS**
Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
9. **INDIVIDUAL AND TEAMWORK**
An ability to work effectively, as an individual or in a team, on multifaceted and /or multidisciplinary settings.
10. **COMMUNICATION**
An ability to communicate effectively, orally as well as in writing, on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **PROJECT MANAGEMENT**
An ability to demonstrate management skills and apply engineering principles to one's own work, as a member and/or leader in a team, to manage projects in a multidisciplinary environment.
12. **LIFELONG LEARNING**
An ability to recognize importance of and pursue lifelong learning in the broader context of innovation and technological developments.

BUSINESS AND INFORMATION TECHNOLOGY

Bachelor of Business and Information Technology program, this innovative four-year degree is designed to equip students with a unique blend of skills in both business management and cutting-edge information technology. Here's a brief overview of what you can expect:



PROGRAM OVERVIEW

The Bachelor's in Business and Information Technology program integrates core principles of business management with advanced technological training. This interdisciplinary approach ensures that graduates are well-prepared to navigate and lead in today's rapidly evolving digital landscape.

Throughout the program, students will engage in a curriculum that integrates management theory, organizational behavior, strategic planning, and technological innovation. They will have opportunities to work on real-world projects, participate in internships, and gain hands-on experience with emerging technologies. The program aims to produce versatile professionals who are adept at leveraging technology to solve business challenges and drive organizational success.

KEY FEATURES

- **Comprehensive Curriculum:** The program covers a wide range of subjects, including business strategy, finance, marketing, information systems, data analytics, emerging technologies, cloud computing, Block Chain and AI.
- **Hands-On Learning:** Students engage in practical projects, internships, and collaborative assignments that provide real-world experience and enhance problem-solving skills.
- **Industry-Relevant Skills:** The curriculum is designed in consultation with industry experts to ensure that students acquire the skills most in demand by employers.
- **Global Perspective:** Courses emphasize global business practices and technological trends, preparing students for careers in a diverse and interconnected world.

CAREER OPPORTUNITIES

Graduates of this program are well-positioned for a variety of career paths, including:

- Business Analyst
- IT Project Manager
- Data Scientist
- Technology Consultant
- Operations Manager
- Product Manager
- Data Analyst
- Digital Transformation Specialist
- Strategic Planning Manager
- Technology Implementation Specialist
- Innovation Manager

WHY CHOOSE THIS PROGRAM?

- **Interdisciplinary Approach:** Gain expertise in both Business management and information technology, making you a versatile and valuable asset in any organization.
- **Cutting-Edge Knowledge:** Stay ahead of the curve with the latest technological advancements and business strategies.
- **Networking Opportunities:** Connect with industry leaders, alumni, and peers through various events, workshops, and seminars.

Embark on a journey that combines the best of both worlds—business management and information technology. This program is your gateway to a dynamic and fulfilling career in the modern business environment.



MISSION STATEMENT

Our mission is to develop innovative leaders who are adept at integrating management principles with cutting-edge technology. We strive to provide a dynamic educational experience that fosters critical thinking, problem-solving, and strategic decision-making. By blending rigorous academic training with practical, hands-on experience, we prepare our graduates to excel in diverse professional environments and contribute meaningfully to the future of business and technology.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

Consistent with the Department Vision and Mission, the Program Educational Objectives of the study program Business and Information Technology are to educate individuals with interdisciplinary and practical knowledge who:

PEO-1: Possess a thorough understanding of business and information technology.

PEO-2: Will be able to comprehend, identify, discuss, and offer fixes for business and technological issues.

PEO-3: Contribute to society by coming up with creative ways to manage different technologies and encouraging the ongoing advancement of professional and technical knowledge in decision-making.

PROGRAM LEARNING OUTCOMES (PLO)

The Bachelor's in Business and Information Technology program is designed with the following key Learning outcomes:

1. MANAGEMENT AND TECHNOLOGY KNOWLEDGE

Provide students with a comprehensive understanding of management theories and technological innovations, enabling them to effectively address and solve complex business challenges.

2. INTERDISCIPLINARY EXPERTISE:

Equip students with a solid foundation in both business management and technology, fostering a comprehensive understanding of how these fields intersect and complement each other.

3. ANALYTICAL AND PROBLEM-SOLVING SKILLS:

Train students to analyze complex business problems and develop innovative technological solutions, using data-driven decision-making and critical thinking.

4. LEADERSHIP AND TEAMWORK:

Cultivate leadership qualities and teamwork skills, preparing students to effectively manage and collaborate within diverse and dynamic organizational settings.

5. TECHNOLOGICAL PROFICIENCY TOOLS:

Ensure students are proficient in the latest technological tools and platforms, enabling them to leverage technology to drive business success and innovation.

6. ETHICAL AND SOCIAL RESPONSIBILITY:

Instill a strong sense of ethics and social responsibility, guiding students to make decisions that are not only profitable but also socially and environmentally sustainable.

7. GLOBAL BUSINESS ENVIRONMENT:

Provide a global perspective on business and technology, preparing students to operate and compete in an international marketplace.

8. LIFELONG LEARNING AND PROFESSIONAL DEVELOPMENT:

Encourage continuous learning and professional growth, equipping students with the skills and mindset needed to adapt to evolving industry trends and challenges.

9. PRACTICAL EXPERIENCE:

Offer hands-on learning opportunities through internships, projects, and industry collaborations, ensuring students gain real-world experience and practical skills.

By achieving these objectives, the program aims to produce graduates who are well-rounded, innovative, and ready to lead in the ever-evolving landscape of business and technology.



INTEGRATED TEACHING, SEMESTER SYSTEM, CURRICULUM, EXAMINATIONS AND MEDIUM OF INSTRUCTIONS

The BS Programs at IBET consists of four-year academic duration comprising of eight semesters including Theory and practical courses on the latest equipment and trainers.

The semester system is a unique system in which education is delivered into a process where students can learn according to their interest. After evaluation of their performance/progress assessed through different types of tests/assessments, they can acquire degree on their cumulative performance throughout the Program of their study.

SEMESTRIAL DURATION

Teaching & Training	16 weeks
Examinations	02 weeks
Duration of Semester	18 weeks

ATTENDANCES OF THE STUDENTS

Students after admission are required to attend classes & practical and maintain at least 75% attendance in each Semester before they become eligible to appear in the examination. Any student who fails to maintain the attendance as prescribed by university for appearance of examination, his examination form shall not be forwarded to the Controller of Examinations.

ELIGIBILITY

- Only candidates who have qualified the attendance criteria will be eligible to appear in Semester examinations.
- Attendance should be 75% both for Theory as well as practical sessions.
- If a candidate passes in theory and fail in practical, he will have to reappear in practical only.
- If a candidate passes in practical and fail in theory, he will have to reappear in theory only.

PATTERN OF EXAMINATION

Theory 100 Marks

- Out of 100 Marks: 20 marks mid-semester 10 marks sessional and 70 Marks of theory paper.
- Sessional Marks comprises on Class Tests and Assignment.

In Paper out of 70 Marks

<u>No. of Questions</u>	<u>Marks</u>	<u>Time</u>
• 20 SBQs	20	30 minutes
• 10 Short Essay	50	1 hours & 30 minutes

Practical / Viva voce 50 Marks

Out of 50 Marks:

- 30 Marks on Lab Manual/Weekly Tasks
- 05 Marks on Practical Journal
- 05 Marks on Practical Exam test
- 10 Marks on Viva Voce

CRITERIA OF PASSING

- Passing marks in theory will be 50%
 - Passing marks in Viva voce/practical will be 50 %
- Examiners for Theory: One Internal
Examiners for Practical: One Internal & One External



EXAMINATION AND GRADING

The grading in the examination will be evaluated as under:

Grade	Score	Value
A+	85% - 100%	4.00
A	70% - 84%	3.50
B	60% - 69%	3.00
C	50% - 59%	2.00
D	Below 50%	1.00

POLICY FOR FAILED COURSES

1. Failed Course:

- 1.1. If a student gets 'F' grade, he/she will be required to repeat the course or its recommended alternate, as per curriculum requirements or recommendations of curricular review committee of the program. However, "F" grade obtained earlier will also be recorded on the transcript.

2. Remedial Classes during the semester:

- 2.1. Since there are two regular semesters (Fall, Spring) in an academic year. However, Remedial Classes may optionally be offered during the semester after the regular classes or in the summer semester.
- 2.2. The remedial classes offered in the summer semester, consisting of 8 weeks of concentrated study for completing any failed/remedial course work in subjects that are failed/not pass by candidates upon request to the Director/HOD.
- 2.3. A student who has either failed or has been stopped to take the examination due to shortage of class attendance is allowed to register in these remedial classes, whenever offered during the academic year, and appear in the next attempt, with the registration of that course and full payment of fees for that course.
- 2.4. It is the responsibility of the student to keep track of his/her courses and complete the degree requirements within the maximum duration of the degree program (as per the policy of the accreditation council).

3. Fee:

- 3.1. The student has to pay a fee of Rs. 3000/- per credit hour for each course he/she is going to registered as remedial course
- 3.2. The fee of the course should be submitted before the commencement of classes.
- 3.3. If student failed to submit the fee within the due date the registration of the course will stand cancel.

4. Registration of course

- 4.1. Student has to inform in writing to the Academic Coordinator of the department at the end of the semester whether he or she is going to register for failed/remedial course in the upcoming semester.
- 4.2. The minimum number of students required to offer a remedial course in the Spring/Fall semester is 2, and in summer semester is 4.

MEDIUM OF INSTRUCTIONS

Instruction in all course/Laboratories are carried out in English Language.

Academic Instructions

- Students after the admission are compulsory required to attend classes and practical and maintain at least
 - 75% attendance in each semester in order to be eligible to appear in the respective Semester examination.
 - Classes schedule will be pasted on the Notice Board.
 - Generally, classes are scheduled between 08:00 am to 03:00 pm.
 - The students who miss classes, assignments and class test are bound to appear in extra classes arranged for this purpose. (On Special request by students).
 - A student will not be allowed to enter the class after 10 minutes of the start of the Class.
- g) Theory and Practical are integrated in the courses where needed. Students must acquire both theoretical and practical competencies.



BACHELORS OF SCIENCES IN HEALTH INFORMATICS AND MANAGEMENT SYSTEM (BS-HIMS)

INTRODUCTION

The **Bachelors of Sciences in Health Informatics and Management System (BS-HIMS)** is a **4-year** evening program offered through **Institute of Health Management and Research Sciences (IHMRS), LUMHS** which represent an interdisciplinary realm of study with the primary objective of harnessing technology to effectively structure, analyze, administer, and interpret health-related data, all with the overarching aim of enhancing the quality of healthcare services. Its central objectives encompass the acquisition, classification, management, and utilization of health-related information to elevate healthcare standards, practices, policies, and clinical care guidelines.

In Pakistan, the healthcare industry has exhibited a relatively sluggish pace in adopting technological advancements. However, in the context of the burgeoning potential for economic and clinical benefits through health information technology, the adoption of information technology, especially electronic health records, has become an imperative necessity.

The field of health informatics and management is experiencing rapid expansion, driven by the growing integration of big data analytics in the healthcare sector. This surge in growth is projected to amplify the demand for jobs in Health Informatics and Management System over the coming decade. These career opportunities extend to various domains, including biomedical research, nursing, physical therapy, dentistry, clinical pharmacy, allopathic and alternative medicine, occupational therapy, and public health.

Graduates may enter a variety of roles such as:

- Faculty Member at a College or University
- Chief Medical Information Officer (CMIO)
- Health Information Specialist
- Clinical Informatics Analyst
- Health Informatics Consultant
- Health Information Technology Project Manager
- Health Administrator
- Clinical Research Manager
- Medical Coding Specialist
- Healthcare Clinic Manager
- Records Manager in the Biotech Industry
- Pharmacy or Nutrition Informaticist
- Informatics Nurse

MISSION STATEMENT

BS in Health Informatics and Management System (BS-HIMS) program at IHMRS, LUMHS aims to empower students with interdisciplinary skills to leverage technology effectively in healthcare resulting in bridging the gap between technology and healthcare, preparing graduates to drive innovation, elevate standards, and improve patient care in Pakistan's healthcare sector.



FACULTY

S.No.	Name	Qualification	Area
1.	Dr. Mohsin Shafi	PhD	Management Sciences
2.	Dr. Saleem Raza	PhD	Management Sciences
3.	Dr. Zia Ahmed	MS, PhD	Information Technology
4.	Dr. Shazma Kamran	MS, PhD	Information Technology
5.	Engr. Shazeem Abid	MPhil	Information Technology
6.	Saqib Baloch	MPhil	Information Technology
7.	Samiullah Soomro	MPhil	Information Technology
8.	Humaira Shams	MS	Information Technology

PROGRAM OBJECTIVES

BS in Health Informatics and Management System (BS-HIMS) program at IHMRS, LUMHS have the following program objectives:

1. Equip students with interdisciplinary skills in Health Informatics and Management System to revolutionize healthcare through technology.
2. Develop students' abilities to acquire, classify, manage, and leverage health-related information effectively to enhance healthcare quality.
3. Ensure proficiency in electronic health records and other innovative solutions essential for modern healthcare delivery.
4. Lead the transformation of Pakistan's healthcare landscape by integrating technology into healthcare practices, improving clinical outcomes, and advancing healthcare standards nationwide.
5. Prepare graduates to meet the increasing demand for skilled professionals in health informatics and management across various career opportunities.
6. Provide students with the necessary tools and expertise to excel in health informatics research, clinical practice, public health, and other related fields.
7. Foster leadership qualities and a commitment to innovation among students, shaping them into future leaders who will drive positive change in the healthcare industry.
8. Offer real-world exposure through internships, providing practical experience in diverse healthcare settings. We prioritize robust industrial liaisons to ensure internships meet industry standards, fostering students' professional growth for careers in Health Informatics and Management System.

ADMISSION CRITERIA

- Applicants must meet the minimum eligibility criteria in order to be considered for admission to the Bachelors of Sciences in Health Informatics and Management System (BS-HIMS) program.
- Admission is purely merit-based and rests solely on the following criteria:
- At least 50% marks in Intermediate (Pre-Medical, Pre-Engineering, Arts, Humanities) (HSSC) examination or equivalent qualification certified by IBCC.



Admission Test intends to test candidates on certain Analytical, Quantitative, Verbal, and Reading Skills in English for **BS (Health Informatics and Management System)** program

PART – I | VOCABULARY 20 Marks

PART – II | STRUCTURE AND WRITTEN EXPRESSION 20 Marks

PART – III | READING COMPREHENSION | Section-A 10 Marks, WRITING ABILITY | Section-B 10 Marks

PART – IV | PROBLEM SOLVING 20 Marks

PART – V | NUMBER / LETTER SERIES 20 Marks

CORE CURRICULUM

The BS (Health Informatics and Management System) program requires a minimum 136 credits of coursework, labs including project of 6 credit hours divided in two semesters.

FIRST YEAR

1st Semester

Course Title	Credit Hours
Introduction to Health Informatics	3
Introduction to ICT	2
Introduction to ICT Lab	1
English Language and Communication Skills	3
Basic Biology	3
Programming Fundamentals	3
Programming Fundamentals Lab	1

2nd Semester

Course Title	Credit Hours
Technical and Business Writing	3
Basic Mathematics	3
Human Physiology and Histology-I	2
Human Physiology and Histology-I Lab	1
Entrepreneurship	3
Object Oriented Programing	3
Object Oriented Programing Lab	1
Introduction to Healthcare Management	3

SECOND YEAR

3rd Semester

Course Title	Credit Hours
Accounting Principles and Health Economy	3
Human Physiology and Histology-II	2
Human Physiology and Histology-II Lab	1
Medical Terminologies	2
Linear Algebra and Differential Equations	3
Probability and Statistics	3
Data Structure and Algorithms	3
Data Structure and Algorithms Lab	1



4 th Semester	
Course Title	Credit Hours
Health Data Classification and Coding Systems	2
Health Data Classification and Coding Systems Lab	1
Artificial Intelligence in Health Informatics	2
Artificial Intelligence in Health Informatics Lab	1
Healthcare Information Systems	3
Health Informatics Records & Security	3
Health Information Management Technology	3
Data Communication and Networks	3

THIRD YEAR

5 th Semester	
Course Title	Credit Hours
Legal and Ethical Issues in Health Informatics	2
Modern Programming Languages	2
Modern Programming Languages Lab	1
Database Systems	3
Database Systems Lab	1
Introduction to Digital Health	3
Clinical Informatics	2
Clinical Informatics Lab	1
Public Health Informatics	2
Public Health Informatics Lab	1

6 th Semester	
Course Title	Credit Hours
Machine Learning in Healthcare	2
Machine Learning in Healthcare Lab	1
Principles of Nursing Informatics	3
Image Informatics	2
Healthcare Decision Making and Support Systems	3
Healthcare Procurement and Supply Chain Management	3
Human Resource Management in Healthcare	3

FOURTH YEAR

7 th Semester	
Course Title	Credit Hours
Healthcare Project Management	3
Healthcare Strategy and Policy	3
Elective Course-I	3
Elective Course-II	3
Final Year Project-1	3

8 th Semester	
Course Title	Credit Hours
Health Data Analytics	3
Health Information Management in Crisis	3
Elective Course-III	3
Elective Course-IV	3
Final Year Project-2	3



LEARNING OUTCOMES

Upon completion of the program, the students will have

1. **Proficiency in Interdisciplinary Skills:** Graduates will demonstrate proficiency in interdisciplinary skills essential for revolutionizing healthcare through technology.
2. **Mastery of Health Information Management:** Students will master the acquisition, classification, management, and leverage of health-related information to enhance healthcare quality.
3. **Competence in Healthcare Technology:** Graduates will exhibit competence in utilizing electronic health records and other modern healthcare solutions effectively.
4. **Leadership in Technology Integration:** Students will develop the ability to lead the integration of technology into healthcare practices, resulting in improved clinical outcomes and enhanced healthcare standards nationwide.
5. **Preparedness for Diverse Career Paths:** The program will prepare graduates to meet the increasing demand for skilled professionals in various career opportunities within health informatics and management.
6. **Aptitude for Specialized Fields:** Graduates will demonstrate aptitude for excelling in specialized areas such as health informatics research, clinical practice, public health, and related fields.
7. **Development of Leadership Qualities:** The program will foster the development of leadership qualities and a commitment to innovation, enabling graduates to drive positive change in the healthcare industry.

ASSESSMENT MECHANISM

The assessment mechanism for this program may include various methods to evaluate students' learning and proficiency in the defined learning outcomes. Possible assessment methods could include:

1. **Examinations:** Regular exams, both written and practical, could be administered to assess students' understanding of theoretical concepts and their ability to apply them in real-world scenarios.
2. **Assignments and Projects:** Assignments and projects could be assigned to students to assess their ability to analyze, synthesize, and apply knowledge gained throughout the program. These could include research papers, case studies, software development projects, or data analysis tasks related to healthcare informatics.
3. **Internship Evaluations:** Performance evaluations during internships could provide valuable feedback on students' practical skills, professionalism, and ability to apply classroom knowledge in real healthcare settings.
4. **Presentations and Reports:** Students could be required to deliver presentations or write reports on topics related to health informatics and management, demonstrating their communication skills and depth of understanding.
5. **Peer and Self-Assessment:** Incorporating peer and self-assessment components can encourage students to reflect on their own learning and provide constructive feedback to their peers, promoting collaborative learning and self-awareness.
6. **Practical Demonstrations:** Practical demonstrations, such as simulations or hands-on exercises, could be used to assess students' ability to navigate health informatics systems, troubleshoot technical issues, and effectively utilize healthcare technology tools.



7. **Capstone Projects or Thesis:** A culminating capstone project or thesis could be required for students to demonstrate their comprehensive understanding of health informatics and management concepts, integrating knowledge from various courses and applying it to solve real-world problems or contribute to research in the field.
8. **Continuous Assessment:** Continuous assessment methods, such as quizzes, class participation, and online discussions, can provide ongoing feedback on students' progress and engagement throughout the program.

By utilizing a combination of these assessment methods, the program can ensure comprehensive evaluation of students' knowledge, skills, and competencies in Health Informatics and Management System. Additionally, assessments should be aligned with program objectives and learning outcomes to ensure that students are adequately prepared for careers in the field.



BSHINS fall session class in progress



BACHELOR'S OF PHYSICIAN ASSOCIATE



4 YEAR DEGREE PROGRAM



Message from the Director

Prof. Dr. Binafsha Manzoor Syed
Medical Research Center & ORIC

It is my privilege to welcome aspiring healthcare professionals to the **Bachelor of Science in Physician Assistance** program at Liaquat University of Medical & Health Sciences (LUMHS), Jamshoro. This groundbreaking program is designed to meet the growing demand for highly skilled physician assistants who play a vital role in modern healthcare systems worldwide.

Physician assistants serve as key members of healthcare teams, bridging the gap between patients and physicians while providing essential support in clinical settings. Our program is tailored to equip students with a strong foundation in medical knowledge, clinical skills, and ethical practice, ensuring they are well-prepared to contribute meaningfully to patient care.

At LUMHS, we are committed to providing a dynamic learning environment where students receive both theoretical and hands-on training. With access to cutting-edge facilities, experienced faculty, and practical exposure in diverse healthcare settings, students will gain the competencies needed to excel in this rewarding field.

The **Bachelor of Science in Physician Assistance** is not just a degree—it is a gateway to a fulfilling and impactful career in healthcare. Graduates of this program will find themselves well-positioned to address the evolving needs of the healthcare industry, both nationally and internationally.

I encourage all prospective students to approach this journey with enthusiasm and dedication, embracing the opportunity to learn, grow, and make a difference in the lives of others. Together, let us build a brighter future for healthcare.

Warm regards,

Prof. Dr. Binafsha Manzoor Syed
Director, Medical Research Center & ORIC
LUMHS, Jamshoro



Medical Research Centre (MRC)



The **Medical Research Centre (MRC)** at Liaquat University of Medical & Health Sciences (LUMHS) is a cornerstone of the university's commitment to academic excellence through research. It serves as a dynamic hub where faculty members and postgraduate students from both basic and clinical sciences collaborate on impactful research alongside their academic responsibilities.

The Centre's research outputs are regularly published in the **Journal of Liaquat University Medical & Health Sciences (JLUMHS)** and the **LUMHS Medical Research Journal (LMRJ)**, both of which are recognized by the **Higher Education Commission (HEC)** and indexed in esteemed international databases.

Core Functions and Contributions

Research and Collaboration

The MRC engages in multidisciplinary research and provides technical and advisory support to local and international researchers and organizations. Through its **Clinical Trial Unit**, the Centre facilitates the execution of clinical trials in collaboration with healthcare facilities across Pakistan, driving advancements in treatments and healthcare innovation.

National and International Partnerships

The MRC fosters partnerships with research institutes, academic institutions, and private sector entities to enhance the quality and scope of its research. These collaborations include:

- Developing research proposals
- Grant writing
- Networking with private partners, government agencies, NGOs, R&D industries, and pharmaceutical companies

Compliance and Standards

The MRC adheres to global research standards, ensuring compliance with protocols such as **GCP ICH, GCLPs, GLPs, and GMPs**. This commitment guarantees the integrity and quality of its research activities.

Capacity Building and Education

The Centre organizes mandatory workshops for undergraduate and postgraduate students as well as faculty members. These workshops emphasize:

- Research methodologies
- Biostatistics
- Systematic reviews and meta-analyses

Internship and training opportunities are also available, nurturing young researchers and building capacity for future health research initiatives.



Policy Contributions

Through systematic reviews, meta-analyses, and data-driven research, the MRC contributes to evidence-based policy-making, directly impacting public health outcomes and shaping healthcare strategies.

Infrastructure and Facilities

The **Medical Research Centre** offers state-of-the-art infrastructure designed to support advanced research and innovation. Its facilities include:

- **Medical Research Centre (MRC)**
- **Offices of Research & Commercialization (ORIC)**
- **Offices of Global Engagements**
- **Clinical Trial Units**
- **Experimental Animal Facility**

Departments

1. Basic Science Research

Focused on:

- Proteomics and genomics
- Drug discovery
- Animal model research

2. Clinical Science Research

Focused on:

- Clinical trials
- Cell line and stem cell research
- Biomarker discovery

Opportunities and Impact

The MRC is dedicated to empowering the next generation of researchers with:

- Internship and trainee opportunities
- Research-focused classes
- Hands-on experience in cutting-edge research areas

Through its initiatives, the MRC not only advances medical science but also builds a strong foundation for evidence-based healthcare and innovation. Its contributions to public health research and policy-making affirm its pivotal role in shaping the future of medical and health sciences at LUMHS and beyond.

Introduction of the program

The program is designed to prepare health care workers to help doctors. This is an innovative field where Physician associates take medical history, perform clinical examination, take patient notes and analyze reports. They work under observation of a medical doctor. These associate physicians will be a great health care task force in primary health care and in busy out patient departments. They will also be able to make follow-up of patients suffering from chronic illness.

Currently in developed countries especially in Europe and middle east this program is top trend, Liaquat university of Medical & Health is keen to launch the program and produce physician associates of world class standard so that they can be utilized within country or sent abroad.

Objectives

1. To produce high quality Physician associates who will be assisting medical doctors in busy medical practices and in rural areas.
2. To provide foundation level education for to the physician associates to follow patients who are on medication prescribed by the medical doctor.



Career prospects

The graduates will have a career path as associate physicians in the primary, secondary and tertiary health care system to assist medical doctor in assessment of the patients by taking history, doing medical examination, ordering and assessing medical reports and report to the physician. They can also make follow-up of the patients in the community. This graduates will also be experts to work as community health workers/ visitors.

Faculty

1. Prof. Binafsha Manzoor Syed
2. Dr. Shariq Anwer Abid
3. Dr. Suleiman Pirzado
4. Dr. Shehzad Ali Mughal
5. Dr. Zainab Manzoor
6. Dr. Hina Shaikh
7. Dr. Saira Baloch

Program Coordinator

1. Dr. Azam Iqbal Memon



Course details

#	Semester	Subject	Credit hours
1	1st	Anatomy - 1	4 (3+1)
2		Physiology - 1	3 (2+1)
3		Pathology -1	3 (2+1)
4		English (Basics)	3 (3-0)
5		Islamiyat / Ethics	2(2-0)
6		Research Methodology- I	3(3-0)
			Total = 18
Semester 2			
1	Second	Anatomy - II	4 (3+1)
2		Physiology - II	3 (2+1)
3		Pathology - II	3 (2+1)
4		English (Communication skills)	3 (3-0)
5		Pakistan Studies	2(2-0)
6		Research Methodology - II	3(3-0)
			Total = 18
Semester 3			
1	Third	Anatomy III	4 (3+1)
2		Physiology - III	3 (2+1)
3		Pathology - III	3 (2+1)
4		Fundamental of computer use	3 (2-1)
5		Laboratory techniques	3(2-1)
6		Biostatistics –I	2(2-0)
			Total = 18
Semester 4			
1	Fourth	Anatomy IV	4 (3+1)
2		Physiology - IV	3 (2+1)
3		Pathology - IV	3 (2+1)
4		Social care & Public Health	3 (3-0)
5		Academic general surgery	3(3-0)
6		Biostatistics- II	2(2-0)
			Total = 18
Semester 5			
1	Fifty	Pharmacology - I	4 (3+1)
2		Biochemistry	3 (2+1)
3		Clinical Medicine	3 (2+1)
4		Pediatric diseases	3 (3-0)
5		Neoplastic diseases	2(2-0)
6		Clinical practice	3(0-3)
			Total = 18
Semester 6			
1	Sixth	Pharmacology - II	4 (3+1)
2		Clinical Medicine	3 (2+1)
3		Mental health and behavioral sciences	3 (2+1)
4		Geriatrics	3 (3-0)
5		Health Care system (national and global)	2(2-0)
6		Academic writing	3(3-0)
			Total = 18



Semester 7			
1	Seventh	Clinical medicine	4 (3+1)
2		Emergency care	3 (2+1)
3		Oncology & Screening programs	3 (2+1)
4		Renal system diseases	3 (3-0)
5		Endocrinology	2(2-0)
6		Clinical practice	3(0-3)
			Total = 18
Semester 8			
1	Eighth	Clinical Medicine	4 (3+1)
2		Radiology	3 (2+1)
3		Gynaecology & Obsterics	3 (2+1)
4		Clinical practice	3 (0-3)
5		Clinical practice	2(0-2)
6		Clinical practice	3(0-3)
			Total = 18
Total credit hours for four years= 144			

CREDIT HOURS Calculation

- Theory: One Credit Hour shall be equal to one hour of teaching per week per semester.
- Practical: One Credit Hour shall be equal to two hours of lab work per week per semester
- Clinical practice: One Credit Hour shall be equal to three hours of clinical attachment per week per semester.
- Research: One Credit Hour shall be equal to three hours of research work per week per semester.

Examination

At end of each semester there will be examination, 75% attendance in all subjects will be required to appear in the examination

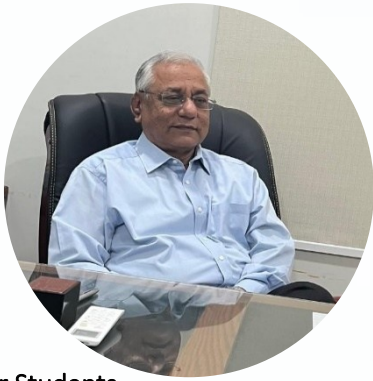
1. Theory examination: SBQs: 40%
2. Internal evaluation: 10%
3. Vice voce/ Practical = 50%

PROMOTION POLICY

Students will be declared pass according to the policy of University, if they fail in first semester they will continue in second semester of the same academic year and appear in the re-sit examination. If a candidate continues to fail three times consecutively will be dealt with the university policy.



LIAQUAT INSTITUTE OF MEDICAL & HEALTH SCIENCES, THATTA



MESSAGE

Dear Students

It is a great Honor for me to welcome you all, in one of the best medical Institute of Pakistan i.e Liaquat Institute of Medical & Health Sciences (LIMHS) Thatta.

I feel proud to be the principal of this College, as you all know that, this institute is a constituent college of LUMHS Jamshoro, which itself has a very pivotal Role in medical fraternity.

You will be the 3rd Batch of this institute and as Principal I expect from you the Dedication, Honesty & Hard work, your batch should be the trend setter in the history of LIMHS THATTA.

The faculty here, is very competent, hardworking, & encouraging. They are always ready to teach you anywhere, anytime. During your stay here in LIMHS my faculty will provide you holistic & dynamic education beyond your Books & class rooms, but this does not mean, that you don't attend the classes, as 75% attendance is mandatory to appear in any examination.

As a student & then a, respectable doctors, your impact will be on poor masses & we expect that you will make this institute, a proud. You are blessed that this institute is also recognized by college of physician & Surgeon Pakistan which will also help you for higher studies.

The only requirement from you is continuous HARD WORK I & My team are anxiously waiting for the time to welcome you so that we all join the hands of each other for the Benefit of this institute as well as for the poor masses.

Warm Regards

Prof. Dr. Ghulam Sarwar Qureshi
Principal LIMHS THATTA





Introduction

Liaquat Institute of Medical & Health Sciences (LIMHS) Thatta campus is a new star in the world of medical education and innovation established in 2023, as first out station campus of Liaquat University of Medical & Health Sciences, Jamshoro, Pakistan. The college has been established with a commitment to excellence and global perspective, as Liaquat University of Medical and Health Sciences stands as a beacon of the knowledge, compassion, cutting edge medical research and provision of standard healthcare facilities.

The strategic location of the college makes it more significant as the region around Makli which have a rich historical legacy, dating back to the time of the Indus Valley Civilization, around 3300–1300 BCE. Its location near the Indus River contributed to its importance as a center of trade and cultural exchange. Makli's historical and architectural significance led to its recognition as a UNESCO World Heritage Site in 1981. The establishment of the college not only has revived its excellence in trade and culture but also in medical education, not only at the regional level but also internationally.

Nestled at the crossroads of diversity and expertise, Liaquat Institute of Medical & Health Sciences (LIMHS) Thatta campus thrives as a melting pot of cultures, ideas, and medical practices from around the world. Our mission is to cultivate the next generation of healthcare leaders and professionals, equipping them with the skills, knowledge, and ethical foundation necessary to address the ever-evolving challenges of the medical field. Thus it is a golden opportunity for students of all the corners of the world.

The college has spectacular infrastructure, led by highly qualified, distinguished faculty including accomplished medical practitioners, researchers, and educators in the field. Liaquat University places a strong emphasis on fostering critical thinking, clinical proficiency, and a deep sense of empathy in our students, through a curriculum designed to bridge the gap between theory and practice. All the students are exposed to a dynamic learning environment that encourages active participation, research-driven exploration, and hands-on clinical experiences. That will make our graduates standing out in the job market at local as well as International level.

As an international institution, we take pride in our collaborative partnerships with renowned medical institutions, organizations, and experts worldwide. We have established linkages and working partnerships with Universities in United States of America, United Kingdom, Canada, China, Turkey and Azerbaijan. These connections provide our students with unique opportunities for global exposure as student exchange programs, research collaborations, and diverse clinical rotations. Thus greatly enhancing their understanding of healthcare on a global scale.

Our commitment to innovation is unwavering, with state-of-the-art facilities and laboratories that empower students to engage in groundbreaking research and technological advancements in the field of technology. We believe in nurturing not only exceptional doctors but also all stake-holders in the field of medical sciences including nurses, Physiotherapists, pharmacists, laboratory technicians and radiology technicians. Thus providing a complete team of healthcare professionals.



ALLOCATION OF SEATS AT LUMHS JAMSHORO

BS DEGREE / ASSOCIATE DEGREE PROGRAMS

S. #	Program	Period of study	SEATS				TOTAL
			Merit	Self Finance	Overseas	HEC Scholarship	
1	Doctor of Physical Therapy (DPT)	05 Years	60	38	2	0	100
2	Doctor of Pharmacy (Pharm-D)	05 Years	50	25	3	2	80
4	BS. Biomedical Engineering (BSBME)	04 Years	30	10	0	0	40
5	BS Business & Information Technology (BSBIT) (Merit cum S-F)	04 Years	0	40	0	0	40
6	BS Physician Associate (BSPA)	04 Years	25	5	2	0	32
7	BS Molecular Biology & Genetics (BSMBG)	04 Years	40	28	2	0	70
8	BS Radiologic Technology (BSRT)	04 Years	60	10	0	0	70
9	BS Medical Laboratory Technology (BSMLT)	04 Years	60	10	0	0	70
10	BS Forensic Science in Forensic Biology (BSFB)	04 Years	47	6	7	0	60
11	BS Medical Technology (Neurosciences) BSMTN	04 Years	20	0	0	0	20
12	BS Health Informatics and Management System (BSHIMS) EVENING Program	04 Years	60	0	10	0	70

BS Nursing (Generic) 04 Years Program

(a) Morning Program

S. #	Category	Male	Female	Total
1	MERIT	25	25	50
2	SELF FINANCE	20	30	50
TOTAL				100
(b) Evening Program		50	50	100

DIPLOMA PROGRAM

Diploma in Paediatric healthcare Technician (01 Year) Program (**10** seats Open Merit)

IMPORTANT NOTE:

- i. University Reserves the rights to change allocated seats.
- ii. If any seat overseas category falls vacant of DPT, Pharm-D, shall be filled under self-finance category.
- iii. Un-utilized / vacant seats of BS Radiologic Technology (BSRT) & BS Medical Laboratory Technology (BSMLT) under Self Finance category while vacant seats of BS Forensic Science in Forensic Biology (BSFB), BS Molecular Biology & Genetics (BSMBG) under Overseas / Self-Finance will be converted into Merit Category.



ALLOCATION OF SEATS AT LIMHS THATTA

S. #	Program	SEATS				TOTAL
		Merit	Reserved Seats under Merit (Thatta/Sujawal)	Self Finance	Overseas	
1	Doctor of Physical Therapy (DPT)	42	18	35	5	100
2	BS Medical Laboratory Technology (BSMLT)	42	18	6	4	70

BS Nursing (Generic)				
S. #	Category	Male	Female	Total
1	OPEN MERIT	13	13	26
2	Reserved seats for the candidates of Distt: Thatta & Sujawal (Under Merit)	06	06	12
3	SELF FINANCE	05	05	10
4	Overseas	01	01	02
TOTAL				50

Allocation of Seats Diploma in Community Midwifery (CMW) only for Female Candidates

S. #	Category	Seats
01	OPEN Merit	40
02	Reserved seats for the candidates of Distt: Thatta & Sujawal (Under Merit)	10
TOTAL		50

Important Note:

- University Reserves the rights to change allocated seats.
- Un-utilized / vacant seats of DPT, BS Medical Laboratory Technology (BSMLT) under Overseas / Self Finance category will be converted into Merit Category, and vacant seats of BS. Nursing under Overseas Category will be converted into Self Finance.



PROCEDURE POLICY / RULES OF ADMISSIONS

1. The candidates will be selected as per merit in accordance with allocation of seats.
2. The seat vacated by the candidate will be filled-in by next the candidate on merit list.
3. The selected candidate has to deposit fees, all required documents (in original) and join within Three (03) days after the selection, in case of failure the selection of candidate shall be cancelled and the Vacant Seat will be offered to next available candidate on waiting list, any seat falling vacant after closing of admission will not be filled and shall stand forfeited.
4. Candidate's admission will be cancelled (from the list of enrolled in LUMHS, Jamshoro), after joining the course if he/she remains absent for thirty days or more, without any information to the competent authority.
5. All admissions are provisional, subject to verification of their original documents submitted by the candidate. If, at any stage it is proved that the candidate has been admitted on the basis of FAKE or INCORRECT document(s), her/his admission will be cancelled and University authorities reserve the right to take legal action against that candidate.
6. There is no rule of migration during the studies of course to transfer to any other Public/Private Sector Institute/University of Sindh or transfer from other Public/Private Institute/ University of Sindh.

REQUIREMENT FOR ADMISSION ON OVERSEAS:

- 1) Those candidates whose Parents/ Guardian are working/ residing abroad are eligible to apply for admission in Overseas category.
- 2) Candidate's Parent/ Guardian must have Domicile of Sindh Province.
- 3) Photocopy of Candidate's Residence Certificate of Foreign Country.
- 4) Photocopy of Candidate's and Father's/ Mother's or Guardian Passport & Visa.

NOTE:

- All the admission seats under Merit, Self-Finance and Overseas categories will be filled as per Merit List of that category.
- Applications for admissions on Self-finance and Overseas categories will be invited after display of Merit List.



FEE STRUCTURE

FEE STRUCTURE FOR BS DEGREE / DIPLOMA PROGRAMS									
S. #	Course / Program	Category	Admission Fee (Once) Non-refundable	Tuition Fee (Per Semester)	Transport Fee (Per Year)	Student Activities (Per Year)	Convocation Fee (once)	Document Verification Fee (Once)	TOTAL
1	Doctor of Physical Therapy (DPT)	MERIT	50000	70000	15000	10000	5000	5000	155000
		S-F	75000	140000	15000	10000	5000	5000	250000
		Overseas	US\$ 800	US\$.1600	15000	10000	5000	5000	US\$.2400 PKR.35000
2	Doctor of Pharmacy (Pharm-D)	MERIT	50000	70000	15000	10000	5000	5000	155000
		S-F	75000	140000	15000	10000	5000	5000	250000
		Overseas	US\$ 500	US\$.3000	15000	10000	5000	5000	US\$.3500 PKR.35000
3	BS Molecular Biology & Genetics (BSMBG)	MERIT	40000	75000	15000	10000	5000	5000	150000
		S-F	60000	105000	15000	10000	5000	5000	200000
		Overseas	US\$ 800/	US\$.1500/	15000	10000	5000	5000	US\$.2300 PKR.35000
4	BSRT & BSMLT & BSMT (Neurosciences)	MERIT	40000	75000	15000	10000	5000	5000	150000
		S-F	60000	105000	15000	10000	5000	5000	200000
5	BS Forensic Science in Forensic Biology (BSFB)	MERIT	40000	75000	15000	10000	5000	5000	150000
		S-F	40000	125000	15000	10000	5000	5000	200000
		Overseas	US\$500	US\$2,500	15000	10000	5000	5000	US\$3000 PKR.35000
6	BS. Biomedical Engineering (BSBME)	MERIT	40000	75000	15000	10000	5000	5000	150000/
		S-F	40000	125000	15000	10000	5000	5000	200000
7	BS Business & Information Technology (BSBIT)	Merit cum S-F	35000	80000	15000	10000	5000	5000	150000
8	BS Health Informatics and Management System (BSHIMS)	National students	50000	125000	15000	10000	5000	5000	PKR.210000
		International students	US\$.300	US\$.1250	15000	10000	5000	5000	US\$.1550 PKR.35000
9	BS Physician Associate (BSPA)	Merit	40000	75000	15000	10000	5000	5000	150000
		Self Finance	60000	105000	15000	10000	5000	5000	200000
		International / Overseas	US\$ 800/	US\$.1500/	15000	10000	5000	5000	US\$.2300 PKR.35000
*The international students from brotherly countries applying through embassy will get 50% waiver on tuition fees									
10	Diploma Paediatric Healthcare Technician	Merit	40000	20000	15000	10000	-----	5000	90000
11	Diploma in Community Midwifery (CMW)	Merit	20000	30000	15000	10000	-----	5000	80000

Fee Structure BS. Nursing (Generic)

Category	Admission Fee (Once)	Tuition Fee (Per Year)	Transport Fee (Per Year)	Student Activities (Per Year)	Convocation Fee (once)	Document Verification Fee (Once)	TOTAL
MERIT	30000	30000	15000	10000	5000	5000	95000
S-F	50000	115000	15000	10000	5000	5000	200000
Overseas	US\$.500	US\$.2000	15000	10000	5000	5000	US\$.2500 PKR.35000

NOTE:

- Pre-Registration fee **RS.3000/** for BS. Nursing and **Rs.2000/** for Pharm-D (Once time)
- Misc. Fees will be charge for BS. Nursing and Pharm-D, of **Rs.20000/-** for merit and **Rs.40000/** for Self Finance (Per Year)



➤ HOSTEL CHARGES AT LUMHS, JAMSHORO.

1. Allotment Fee - Rs.5000/- (Once)
2. Rent Fee - Rs.50000/- (Per Annum)

FEE REFUND UNDER HEC POLICY

1. Application for a refund of Fee can be made by completing the appropriate form and submitting the proof of payment. Any refund will be paid to the student or his/her parents guardians sponsoring body.
2. The refund amount of tuition fee is subject to the following schedule.

Timeline	Percentage of fee
Upto 10 th day of commencement of classless	100% fee refund
Upto 15 th day of commencement of classless	80% fee refund
Upto 20 th day of commencement of classless	60% fee refund
Upto 30 th day of commencement of classless	50% fee refund
31 st day onwards of commencement of classless	Not Refund

- The timelines for refund fee are inclusive of the weekends.
- Admission fee will not be refunded.

PENALTIES

Candidates who are finally selected on open merit seat, self-finance or any other category in any BS Degree /Diploma Programs shall have to pledge through an affidavit that they will complete the course period. In case they leave the university before completing the course for any reason, they will submit a pay order Demand Draft, in favor of the respective Department / Institution of LUMHS Jamshoro as a penalty for wasting a precious seat. Detail is as under:-

➤ LUMHS, Jamshoro

S. #	Program / Course	Penalties Amount	Name of Institution / Departments
1	Doctor of Physical Therapy (DPT)	Rs.100000/ (Merit / S-F)	Institute of Physiotherapy & Rehabilitation Sciences, LUMHS
2	Doctor of Pharmacy (Pharm-D)	Rs.250000/ (Merit / S-F)	College of Pharmacy, LUMHS
3	BS. Nursing (Generic)	Rs.100000/ (Merit) Rs.200000/ (S-F)	Peoples Nursing School, LUMHS
4	BS Molecular Biology & Genetics (BSBMG)	Rs.100000/ (Merit / S-F)	Institute of Molecular Biology & Genetics, LUMHS
5	BS Physician Associate (BSPA)	Rs.100000/ (Merit / S-F)	Department of Medical Research Center
6	BS Biomedical Engineering / Business and Information Technology	Rs.100000/ (Merit / S-F)	Institute of Biomedical Engineering & Technology, LUMHS
7	BS Degree & Diploma Programs (BSRT, BSMLT, BSFB. BSMTN & Pediatric Health Care)	Rs.100000/ (Merit / S-F)	College of Technology, LUMHS
8	Bachelors of Sciences in Health Informatics and Management System (BS-HIMS)	Rs.100000/ (National & International)	Institute of Health Management and Research Sciences (IHMS)

➤ LIMHS Thatta Campus

S. #	Program / Course	Penalties Amount	Name of Institution / Departments
1	Doctor of Physical Therapy (DPT) / BSMLT & Community Midwifery (cmw)	Rs.100000/ (Merit / S-F)	Liaquat Institute of Medical & Health Sciences (LIMHS) Thatta
2	BS. Nursing (Generic)	Rs.100000/ (Merit) Rs.200000/ (S-F)	



RULES FOR PAYMENT OF FEE

1. Once fees paid shall not be refunded, if, Provisional Selection in course under any admission category i.e. Merit/UEAP Self-Finance / Overseas is cancelled up to 45 days, fees which is paid by the candidate shall be refunded.
2. Fee is subject to revision by the university at any time during the course of study and will be applicable at once for all years.
3. Candidates selected for admission in 1year under any category will have to deposit fee within (03) days after display of final list, failing which their names will be cancelled without any notice no claim will be entertained.
4. The student will have to pay the prescribed fee for the remaining years at the start of each session within stipulated time period, i.e. 15 days. The challan forms will be issued by the directorate of finance.
5. If any student fails to deposit fee/dues within stipulated time period shall not be eligible to appear in examination. If student appear in examination without clearing dues the controller of examination UG will be held responsible.
6. In case student appeared in examination with the permission of the competent authority the controller of examination U.G will withheld the examination result till issuing of No Dues Certificate from Directorate of Finance.
7. The Directorate of Finance will be responsible to collect the prescribed fee of remaining years from students, if any student fails to deposit the prescribed fee the Directorate of Finance will issue notice to the defaulter student.
8. The Controller of Examination U.G will provide the examination record of the students to the Directorate of Finance on semester basis.
9. The Directorate of Admission will provide the record of student to the Directorate of Finance for Issuance of notice on demand,
10. Late payment of (semester) will be surcharged from those students who fail to pay their prescribed fee (Merit/UEAP Self-Finance and Overseas) within due date, at the rate of Rs. 2000/- per month from Self Finance Students, Rs.1000/- per month from Merit students and US\$ 100 per month from Overseas students.
11. 50% concession in prescribed fee shall be allowed to children of regular employees of LUMHS Jamshoro, as per syndicate Resolution No.18.12 (4/b). dated 21.02.2009.
12. 50% concession in prescribed fee shall also be allowed to children of retired teaching faculty members of this university in accordance with the Syndicate Resolution No.Syn-18.2(4/r- dated 21.02.2009.

FEE FOR FAILURE/REPEATER STUDENTS.

- In case of students who are admitted under semester system and are declared fail in one semester but passed the other semester of the same year, they will be charged half self finance fee.
- Repeater candidates admitted under regular general merit will be charged full fee.



FREESHIP:

(ELIGIBILITY CRITERIA):

1. Free-ship of fees means exemption of paying tuition fee only (full/half). The student who is granted full/ half free-ship of tuition fee shall be required to make full payment for all other subscription/ funds.
2. The Free-ship will grant from 2nd year.
3. Free ship whole/ half of the tuition fees can be allowed by free-ship committee not exceeding more than **10%** number of the discipline.
4. The grant of free-ship will depend upon the circumstance of the students to his/ her studies. Absence or failure from professional examination, breach of discipline, neglect of studies or reprehensible conduct shall bring about loss of concession.
5. Fresh application/(s) along with relevant document/(s) shall be invited every year from students they will be submitted through their respective departments.
6. After scrutiny of document/(s) by concerned department/ institute, interview will be conducted from eligible students at Directorate of Academics.
7. Free-ship will be granted on annual basis.
8. Student who is receiving any other scholarship will not be eligible for free-ship.
9. Student is studying in Self-Finance/ overseas basis will not be eligible.

ELIGIBILITY CRITERIA:

- a) Orphan Student or Single Parent
- b) Poor Cum Merit-Basis
- c) High Percentage or GPA3+ (**EXCEPT TOP TEN POSITION HOLDERS**)
- d) Parent/ Guardian's income should be up to **Rs. 50, 000/=** per month.
10. Sibling basis free-ship cases will be entertained.



**REGULATIONS RELATING TO
DISCIPLINE, CONDUCT, WELFARE AND CODE OF HONOUR
FOR THE STUDENTS OF THE UNIVERSITY**

I. SHORT TITLE:

These regulations may be called the Liaquat University of Medical & Health Sciences (Students Discipline, Conduct, Welfare and Code of Honour) Regulation 2008.

II. DATE OF COMMENCEMENT:

- a) These Regulations shall come into force with immediate effect.
- b) These Regulations shall apply to all the students of Liaquat University of Medical & Health Sciences, Jamshoro.

III. DEFINITIONS:

- a) “**Chairman**” mean Chairman of the teaching Department of the University.
- b) “**Dean of Faculty**” mean Dean of the relevant Faculty of the University.
- c) “**Director Academics**” mean an officer appointed by the University/Vice-Chancellor as a Director Academics.
- d) “**Disciplinary Committee**” means the Committee established under statues-11 of the 1st statues of the Liaquat University of Medical & Health Sciences, Jamshoro.
- e) “**Director Students Affairs**” mean an officer appointed by the University / Vice-Chancellor as a Director Students Affairs.
- f) “**Incharge Sports**” means an Officer appointed by the University / Vice-Chancellor as an Incharge Sports.
- g) “**Provost**” means an Officer appointed by the University/ Vice-Chancellor as a Provost.
- h) “**University**” means the Liaquat University of Medical & Health Sciences, Jamshoro.
- i) “**Vice-Chancellor**” meant the Vice-Chancellor of Liaquat University of Medical & Health Sciences, Jamshoro.
- j) “**Warden**” means an officer appointed by the University/ Vice Chancellor as a Warden for a Hostel.

IV. GENERAL DISCIPLINE AND CODE OF HONOUR:

EVERY STUDENT INCLUDING STUDENTS RESIDING IN HOSTELS SHALL OBSERVE THE FOLLOWING CODE OF HONOUR:

- a) Respect for order, morality, personal honour and rights of others.
- b) He/ She must be faithful in his / her religion, duties and respect the convictions of others in matters of religion and custom.
- c) He/ She must be loyal to his / her country and refrain from doing anything which tends to lower its honour and prestige.
- d) He/ She shall be truthful and honest in his / her dealings with all people.
- e) He/ She must respect the elders and be polite to all, especially to women, children, old people, the weak and the helpless.
- f) He/ She must respect his / her teachers, officers, and authorities of the University.
- g) He/ She must keep clean in body and mind, standing for clean speech, clean sports and clean habits.
- h) He/ She shall help his / her fellow beings especially those in distress.
- i) He/ She must devote him / herself faithfully to his / her studies.
- j) He/ She must observe austerity and protect public property.



V. ACTS OF INDISCIPLINE:

THE FOLLOWING AMONG OTHERS, SHALL CONSTITUTE ACTS OF INDISCIPLINE, FOR WHICH ACTIONS MAY BE TAKEN AGAINST:

- a) Breach of Public morals, such as:
 - a. Use of Indecent or Filthy Language.
 - b. Use of Immodest Dress.
 - c. Use of Undesirable remarks or Gestures.
 - d. Disorderly behavior, such as shouting, abusing, quarrelling, fighting and insolence.
- b) Defiance of any University Authority.
- c) False personification or giving false information or willful suppression of facts, information, cheating or deceiving.
- d) Visiting places declared 'out of bounds' for students.
- e) Visiting without a Pass, places which are not to be visited without a Pass issued by an Officer or Authority of the University entrusted for the purpose.
- f) Inciting or staging a walkout, strike or an unauthorized procession in the University Campus/ Hostels/ Examination Hall/ (s).
- g) Shouting of slogans derogatory to the prestige of the University or the reputation of its officers or teachers.
- h) Consumption of Alcoholic Liquor, Drugs or other Intoxicants within or outside the University Campus.
- i) Violation of known standards of immorality.
- j) Actions/ Comments defamatory of or derogatory to Islam.
- k) Smoking in a Class Room, Laboratory, Workshop, Library, Examination Hall, and Convocation Hall or during Academic functions.
- l) Organize or take part in any function with the University Campus or a Hall of residence or organize any club or society of students except in accordance with prescribed rules and regulations.
- m) Collect money or receive donation/ (s) or pecuniary assistance for or on behalf of the University or any University organization except with the written permission of the Vice-Chancellor.
- n) Neglect his/ her work habitually or absents from class/ (s) without reasonable cause or permission or the relevant officer of the University.
- o) Damage the University property or the property of a fellow student or teacher or employee of the University.
- p) Do not pay fees, fines or other dues levied, within due time, under the University Statues and Regulations.
- q) Do not comply with the Regulations relating to residence in the Hostels or Hall of residence or the Regulations relating to the wearing of prescribed Uniform or Academic Dress.
- r) Commit criminal, immoral or dishonorable act within or outside the University Campus prejudicial to the interest and reputation of the University.

VI. OFFICIAL RESPONSIBLE FOR THE MAINTENANCE OF DISCIPLINE:

Members of the teaching Staff, Director Academics and Director Students Affairs in general and Provost, Warden and the Incharge of Sports of the University shall be responsible for maintenance of order among the students, while under their charge and disorderly behavior must be dealt with promptly.

VII. PENALTIES:

Punishment or penalty for any of the offence mentioned under the preceding Regulations shall be awarded according to gravity of the case, and may be any one or more of the following:

- a) Record an adverse remark in the Black Book maintained by the Chairman/ Provost.
- b) Fine which may amount to a maximum of **Rs. 1000/-**.
- c) Expulsion from Class, Hall for a specified period not exceeding six months.
- d) Detention from Examinations.
- e) Cancellation of examination results or with-drawl of a Certificate granted.
- f) Withdrawal of concession of free/ half-free / cancellation of Scholarship granted by the University and;



- g) Expulsion or rustication from the University for a specified period or permanently. Provided that no punishment shall be imposed without giving an opportunity to the students concerned to Show Cause and a chance to hear and defend him / her, if he / she, so desires.

VIII. COMPETENT AUTHORITIES TO IMPOSE PENALTIES:

The authority to impose punishment or penalty shall be exercised by the officers to the extent given below and shall be recorded in the Enrollment Register maintained by the Registrar of the University.

1) THE VICE-CHANCELLOR MAY:

- a) Fine a student up to **Rs. 5000/-** for each offence and deprive him / her privileges and positions open to students;
- b) Detain a student from appearing in a University Examination;
- c) Cancel the admission of a student or refuse to admit a student without giving any reason;
- d) Direct a Principal / Director / Incharge to cancel the admission or not to admit a student;
- e) Cancellation of University Scholarship; and
- f) Expel or rusticate a student for a specified period or for good.

2) THE DEAN OF A FACULTY MAY:

- a) Fine a student up to **Rs. 3000/-** for each / single offence; and
- b) Expel a student from the relevant Faculty for fifteen (15) days.

3) THE CHAIRMAN/ CHAIRPERSON/ DIRECTOR/ INCHARGE OF TEACHING DEPARTMENT OF UNIVERSITY MAY:

- a) Fine a student up to **Rs. 1000/-** for each / single offence; and
- b) Expel a student from the relevant Department for a period of one week.

4) THE PROVOST MAY:

- a) Fine a student up to **Rs. 1000/-** for each / single offence; and
- b) Expel a student from a Hall or Hostel for a specific period or for good.

5) THE DEAN OF A FACULTY MAY:

The Discipline Committee of the University shall deal with such serious cases of indiscipline as may be referred to it by the Vice-Chancellor and punishment in such cases shall be imposed on consideration of the recommendation of the Committee. Provided that no punishment shall be imposed without giving an opportunity to the student concerned to Show Cause and a chance to hear and defend him / her, if he / she so desires.



PROGRAMS WISE ELIGIBILITY OF THE CANDIDATES

- a) Candidates having Domicile of Sindh Province, Eligible to apply at LUMHS Jamshoro
 b) Candidates from all over Pakistan, Eligible to apply at LIMHS Thatta.

➤ Doctor of Physical Therapy (DPT) & Doctor of Pharmacy (Pharm-D) Programs

- 01) Those candidates who have passed the Higher Secondary School Certificate (HSSC) Examinations (Pre-Medical Group) or 'A' level (Pre-Medical) secured at least 60% 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), shall be eligible to appear in the Entry Test

➤ BS. NURSING (Generic) Program & Diploma Community Midwifery (CMW)

- 01) Those candidates who have passed the Higher Secondary School Certificate (HSC) Examinations (Pre-Medical Group) 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), shall be eligible to appear in the Entry Test
- 02) Age Limit: (17 – 35 Years)

➤ BS Degree Programs (BSMBG, BSRT, BSMLT, BSFB, BSPA & BSMTN)

- 1) Those candidates who have passed the Higher Secondary School Certificate (HSC) Examinations (Pre-Medical Group) 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), shall be eligible to appear in the Entry Test

➤ Diploma in Paediatric Health Technician

- Those candidates who have passed the Higher Secondary School Certificate (HSC) Examinations (Pre-Medical Group) 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), shall be eligible to appear in the Entry Test
- Age Limit 35 years

➤ BS. Biomedical Engineering & Business & Information Technology Programs

- i. Candidates who have passed Secondary School Certificate examination (SSC) or equivalent examination from any other board or institution recognized by IBCC.
- ii. Candidates who have passed Intermediate Sciences (Pre-Medical or Pre-Engineering) with at least 60% marks or any equivalent examination of any other Board / Body recognized by IBCC with at least 60%. Candidates obtaining less than 60% Marks in HSSC or equivalent examination are not eligible. A-Level examination either in with minimum 60% marks shall be eligible to appear in the Entry Test. The candidates who have passed A-level Examination should submit transcript and equivalence certificate from IBCC Islamabad.

The entrance test shall be conducted from the prescribed intermediate syllabus of Board of Intermediate and Secondary Education, Karachi, Hyderabad, Mirpurkhas, Larkana and Sukkur.

There will be 100 multiple choice questions in the test, distributed in the following manner:

S. No.	Subjects	Questions
01	Physics	40
02	Chemistry	40
03	English	20

➤ Bachelors of Sciences in Health Informatics and Management System (BS-HIMS)

Candidates who have passed Intermediate Sciences (Pre-Medical, Pre-Engineering, Humanities and Art) with at least 50% marks or any equivalent examination of any other Board / Body recognized by IBCC, shall be eligible to appear in the Entry Test



FORMULA FOR WORKING OUT OVER ALL MERIT

- a) HSSC/F.Sc or Equivalent. (50%);
- b) Admission test (50%)

Example:

If a Candidate has obtained the following marks:

a	HSC/A-Level Equivalent marks	660/1100 or 60.00%
b	Entry Test Marks	80/100 or 40.00%

His/her Merit will be calculated as follows:

A	HSC/A-Level Equivalent marks	$60.00\% \times 0.5 = 30.000$
b	Entry Test Marks	$40.00\% \times 0.5 = 20.000$
OVER ALL MERIT OF THE CANDIDATE		$A+B=30.000+20.000 = 50.000$

- All calculation in percentages will be rounded up to three decimal points.
- No deduction in gap of year
- In case the overall scores of two or more candidates are equal, the candidate older in age shall be ranked higher in merit for the purpose of admission.



AFFIDAVIT

(TO BE TYPED ON STAMP PAPER OF RS. 200/=)

I _____ S/o, D/o _____
Muslim/Non-Muslim adult R/o _____
a candidate for admission in 1st year _____ for academic session 2025-26 do hereby
state on solemn affirmation / oath as under:

1. That, I am a holder of P.R.C. of District _____ in Province _____ of National _____, 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.
2. That, if, I am allowed admission in 1st Year _____ on Open Merit / Self Finance seat, I shall not seek admission in any other Public/ Private Sector College / University of the Country.
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. That, after my Final Selection/ Provisional Admission on Open Merit/ Self-Finance or any other category in _____ years Degree Program of _____, I shall complete the Course _____ of _____ years containing (_____) semesters. However, in case, I leave the _____ before completion of the Course, I shall be liable to penalty as prescribed in prospectus through Pay Order / Demand Draft, else I will not be entitled to issuance of any certificate from the institution.
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/College 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 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 _____ 2026 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. 200)

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 _____ 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 _____. I also undertake further that after final Selection/ Provisional Admission in _____ Course of my Son/ Daughter/ Sister/ Brother/ Wife/ Ward at the _____, he / she will not be entitled to issuance of any certificate from the Institute under the admission category of Open Merit /Self-Finance Course of _____. However in case my Son/ Daughter/ Sister/ Brother/ Wife/ Ward leave _____ discontinues before completion of the Course. He/ She shall be liable to penalty as prescribed in prospectus.

Signature of Parent / Guardian

C.N.I.C. No. _____

Full Address: _____

Contact No: _____

ATTESTATION BY JUDICIAL MAGISTRATE. WITH ROUND STAMP / SEAL



Required Documents for Admission	
S. #	DOCUMENTS
1	SSC / Matric Pacca Certificate / O level transcript certificate
2	SSC / Matric Mark Sheet / O level with IBCC Equivalence certificate
3	HSSC / Intermediate Pass Certificate / A level transcript certificate
4	HSSC / Intermediate Mark Sheet / A level with IBCC Equivalence.
5	Domicile (Candidate).
6	Permanent Resident Certificate (PRC) form 'C' (Candidate)
7	CNIC or Form "B" of Candidate from NADRA
8	Domicile of Father, if father is not alive then Mother (along-with Death Certificate issued by NADRA)
9	CNIC Father, if father is not alive then Mother
10	Six Passport size photographs of candidate (fresh)
11	Passport / Visa for Foreign National Candidates
12	Affidavit / Undertaking

NOTE:-

Original documents (Matric/O Level Certificate, Matric/O Level Mark sheet, Intermediate/A Level provisional certificate, Intermediate/A Level Mark sheet, Candidate Domicile, Candidate PRC and Father's Domicile) of the selected candidates will remain in the custody of the university / College till the completion of the course or the expulsion of the candidate due to any reason.

FOR ANY QUERIES PLEASE
CONTACT ON TEL NO.022-9213320 - 21
EMAIL (admission.bs@lumhs.edu.pk)