ACTIVITY REPTORT

SDG 4



LIAQUAT UNIVERSITY
OF MEDICAL & HEALTH SCIENCES
JAMSHORO

LUMHS Hosts Educational Events

Mega Undergraduate Research Conference for Medical Students (MURC '25)

Date: 31 August 2025
Institution: Liaquat University of Medical & Health Sciences (LUMHS), Jamshoro
Event: Mega Undergraduate Research Conference for Medical Students (MURC '25)

Introduction

Hosting Public Academic Events: MURC '25

LUMHS hosts academic and educational events at the university that draw wide participation from beyond its own student body. On 31 August 2025, the university organized the Mega Undergraduate Research Conference for Medical Students (MURC '25), a major research platform that attracted attention from across the country. More than 100 institutions and over 1,000 students took part in the conference and in the pre-conference, workshops held alongside it.

The event gave undergraduate medical students the opportunity to present their research, interact with peers and experienced academics, and gain exposure to a broader research community. The participation of students and academic stakeholders from many institutions created an environment of knowledge exchange, research learning, and scholarly collaboration.

Objectives of MURC '25

The conference was organized with the following objectives:

- Promote a **culture of research and evidence-based learning** among medical students.
- Provide undergraduate students with opportunities to present and disseminate their research.
- Develop students' research, academic presentation, and scientific communication skills.
- Encourage critical thinking and inquiry-based learning.
- Facilitate interaction between students, faculty members, researchers, and academic experts.
- Provide exposure to contemporary medical research and emerging areas of healthcare.
- Encourage networking and future research collaboration among medical students and institutions.

Student Research and Academic Learning

MURC '25 provided students with an academic platform beyond the conventional classroom and clinical environment. Presenting research requires students to engage with the research process, including identifying research questions, reviewing scientific literature, collecting and interpreting evidence, and communicating findings.

Through participation in the conference, students were able to strengthen their understanding of research methodology and scientific communication while receiving academic feedback from peers and experienced researchers.

Development of Research Skills

A central contribution of MURC '25 was the development of undergraduate research capacity. The conference encouraged students to become active contributors to the academic community rather than limiting their role to recipients of knowledge.

Participation supported the development of skills including:

- Research question formulation
- Scientific literature review
- Research methodology
- Data interpretation
- Critical appraisal of evidence
- Abstract and research presentation
- Scientific communication through poster presentation
- Academic discussion and peer learning

These skills are important for evidence-based medical practice and continued professional learning.

Faculty and Academic Engagement

Faculty members and academic researchers played an important role in supporting the conference and guiding student researchers. Interaction between students and experienced academics provided opportunities for mentorship, constructive feedback, and discussion of research challenges and opportunities.

Such engagement helps strengthen the connection between **teaching, research, and professional development** within medical education.

Institutional Impact

MURC '25 strengthened LUMHS's commitment to developing a **research-oriented culture in undergraduate medical education**. By providing students with a dedicated platform to share research and engage with the wider academic community, the conference contributed to strengthening research capacity and scholarly engagement.

The event also enhanced the visibility of undergraduate medical research and demonstrated the role of LUMHS in creating opportunities for students to participate actively in research and academic discourse.

Conclusion

The **Mega Undergraduate Research Conference for Medical Students (MURC '25)** was an important academic initiative that brought together medical students and academic stakeholders from across Sindh. The conference provided a platform for student research presentation, knowledge exchange, mentorship, networking, and development of scientific and research skills.







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Poster presentation





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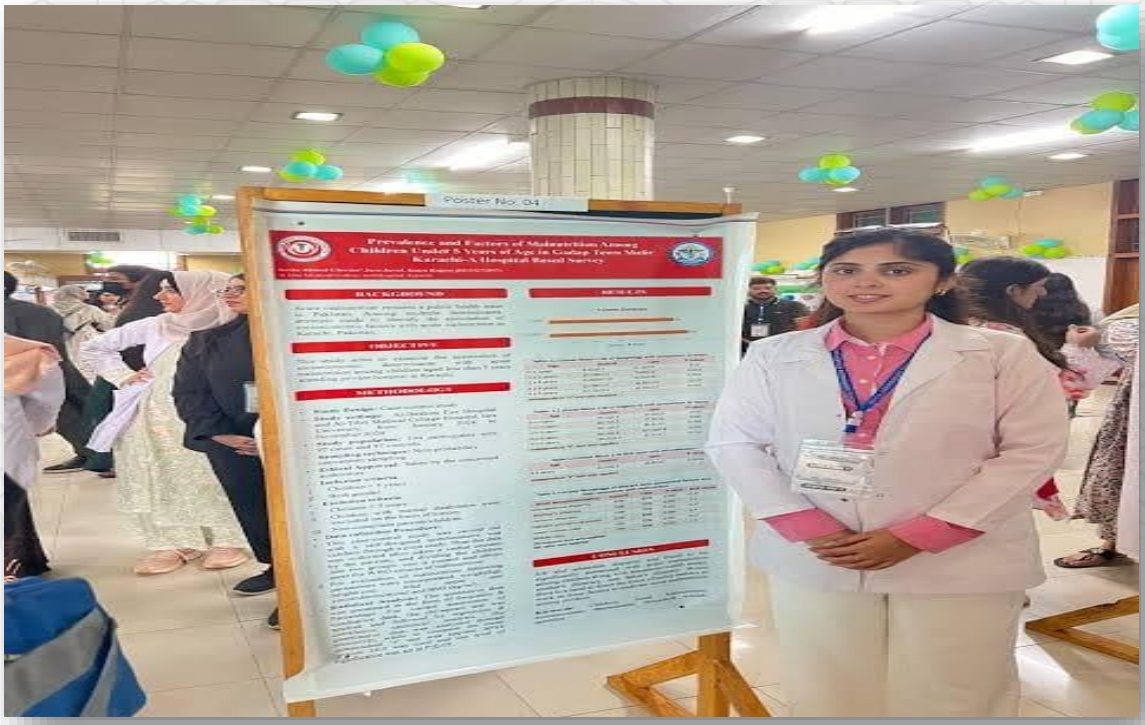

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Pulse Point – Basic Life Support (BLS) Training

The Pulse Point (Basic Life Support – BLS) training was organized on 15–16 April 2025 at Liaquat University of Medical and Health Sciences (LUMHS), Jamshoro, in collaboration with the Emergency Department of Liaquat University Hospital. The two-day initiative trained 60 students, with 30 participants each day, including students from medical colleges outside LUMHS. Recognizing that timely intervention during medical emergencies, such as cardiac arrest, choking, and burns, can significantly improve outcomes, the programme aimed to equip students from diverse academic backgrounds with essential emergency response knowledge and practical life-saving skills. By extending participation beyond its own student community, LUMHS promoted inclusive health education, emergency preparedness, and capacity building, empowering young people to respond effectively to medical emergencies and contribute to safer, healthier communities. The initiative directly supports SDG 3: Good Health and Well-being and contributes to SDG 4: Quality Education through practical skills development and SDG 17: Partnerships for the Goals through collaboration with Liaquat University Hospital.

Objectives

- To train students from diverse disciplines and institutions in core life-saving skills
- To build confidence in responding to medical emergencies
- To widen access to BLS training beyond LUMHS by including students from other medical colleges
- To strengthen collaboration between the university and its teaching hospital

Activity Description

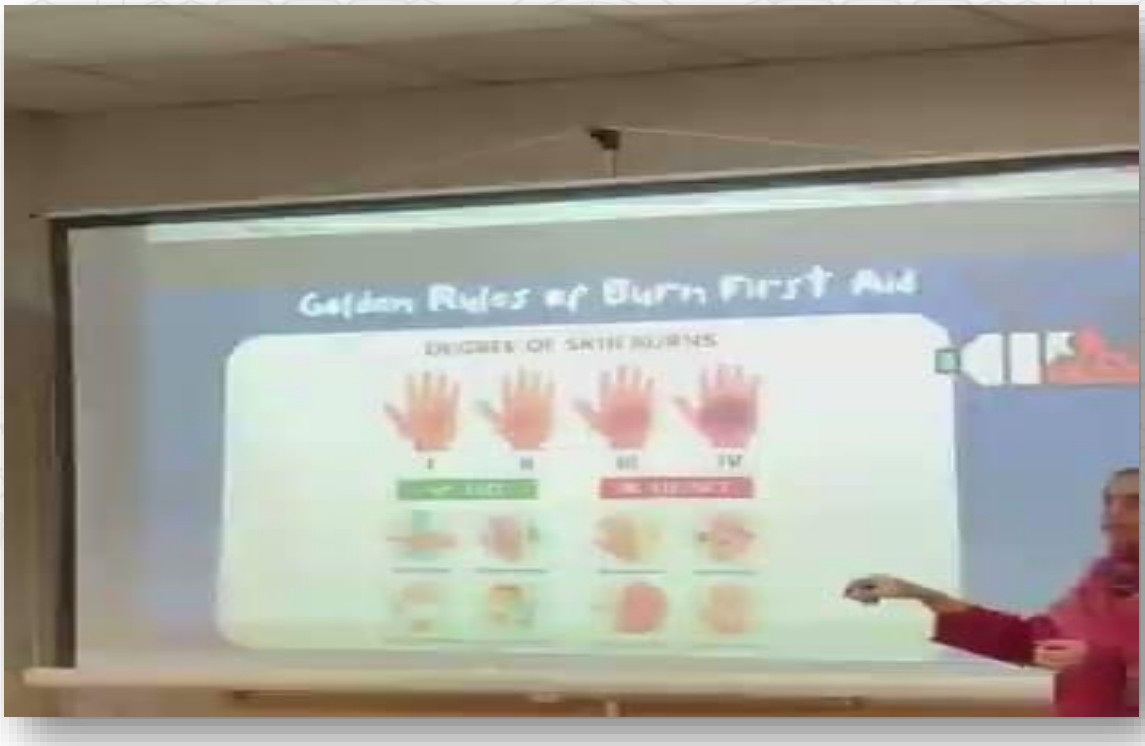
The two-day training was conducted in collaboration with the Emergency Department of Liaquat University Hospital. Thirty students attended each day, divided into five groups that rotated through five hands-on stations:

Station	Skill
1	Automated External Defibrillator (AED)
2	Cardiopulmonary Resuscitation (CPR)
3	Choking Management
4	Basic Airway Management
5	Burn Management

At each station, trained professionals provided a demonstration followed by supervised practice. Certificates were awarded to all participants on completion.







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Conferences, Seminars and workshops Quality Assurance in higher Education



Thursday, June 26, 2025

Daily Karachi
THE OPINION

National Conference on Quality Assurance in HEC Held at LUMHS

Top Quality Experts from HEC, JSMU, and Sindh Universities Share Insights on Raising Academic Standards







JAMSHORO: Liaquat University of Medical & Health Sciences (LUMHS), Jamshoro, hosted a prestigious National Conference on Quality Assurance in Higher Education at its IT Hall, under the auspices of the Directorate of Quality Assurance, LUMHS.

The event brought together leading educationists, faculty members, quality professionals, and students from across the country to discuss key strategies for enhancing quality in higher education institutions.

Dignitaries and Resource Persons in discussions and keynote speakers threw lights on the subject.

On the occasion of the workshop featured notable resource persons including Dr. Abdul Wahid Usmani, Director QEC, Jinnah Sindh Medical University (JSMU), Karachi, Dr. Saleemuddin Shaikh, Director Quality Assurance, Sindh HEC, Karachi, Dr. Agha Muhammad Raza, Director QAA, Higher Education Commission (HEC), Islamabad, Prof. Altaf Nizamani, Director QEC, University of Sindh, Jamshoro, Prof. Sheeraz Memon, Director QEC, Mehran University of Engineering & Technology (MUET) Jamshoro and others.

Prof. Dr. Ikramuddin Ujjan, Vice Chancellor, LUMHS, while in an address emphasized the importance of quality assurance as a shared responsibility among academic leaders.

He remarked, "Quality assurance is not just a requirement; it is a commitment to the future of our nation.

In a world of rapid change, upholding academic excellence is both a challenge and a necessity."

The conference began with the Recitation of the Holy Quran, followed by the National Anthem. The formal Opening Session included a welcome address by the Director QA, LUMHS, and technical sessions featuring the prominent issues, Prof. Moin Ansari, Dean, Faculty of Medicine & Allied, LUMHS.

While, Manzoor Syed, Director MRC & ORIC, LUMHS, Dr. Abdul Wahid Usmani, JSMU, Dr. Saleemuddin Shaikh, Sindh HEC, Dr. Agha Muhammad Raza, HEC Islamabad participated inactive discussions.





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4th International Nursing Conference (NRCON 2025)

Liaquat University of Medical & Health Sciences (LUMHS) organized the **4th International Conference (NRCON 2025)** on 29 November 2025, providing an important academic platform for knowledge exchange, scholarly interaction, research dissemination, and professional development.

The conference was held by the worthy **Vice Chancellor, Prof. Dr. Ikram Din Ujjan**, and was attended by students, faculty members, researchers, and eminent scholars from national and international institutions. The participation of diverse academic stakeholders created opportunities for cross-institutional learning, networking, collaboration, and the sharing of contemporary knowledge and research.

Knowledge Sharing and Academic Learning

The conference provided students and faculty with opportunities to learn from researchers and scholars beyond their immediate academic environment. Presentations, scholarly discussions, and knowledge-sharing activities exposed participants to current developments, emerging research, and contemporary academic practices.

Enhancement of Research and Scholarly Skills

By providing a platform for dissemination and discussion of research, NRCON 2025 encouraged students and faculty to engage with evidence-based knowledge and develop their research capabilities. Such academic engagement contributes to strengthening research-informed education and lifelong learning.

Student Engagement and Learning Opportunities

The participation of students in an international academic conference provided learning opportunities beyond the conventional classroom. Interaction with national and international scholars enabled students to broaden their academic perspectives, develop professional networks, and gain exposure to current developments in their respective fields.

Faculty Professional Development

Faculty members benefited from interaction with eminent scholars and researchers from different institutions. The conference facilitated professional learning, exchange of academic practices, and exposure to emerging approaches in teaching, research, and scholarly collaboration.

Internationalization of Higher Education

The participation of scholars from international institutions contributed to the internationalization of the learning environment at LUMHS. International academic interaction promotes cross-cultural learning, exchange of expertise, and opportunities for future academic and research collaboration.

Inclusive Academic Environment

The conference brought together students, faculty, researchers, and scholars from diverse academic backgrounds, creating an inclusive platform for dialogue and knowledge exchange. Such opportunities support equitable access to academic and professional learning experiences.

Conclusion

The **4th International Conference (NRCON 2025)** served as a valuable platform for academic learning, research dissemination, professional development, and national and international scholarly interaction. Through the participation of students, faculty, researchers, and eminent scholars, the conference contributed to strengthening the quality and relevance of higher education at LUMHS.







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LUMHS Alumni Gala: Celebrating Connections and Achievements

Liaquat University of Medical & Health Sciences (LUMHS) organizes its Alumni Gala annually to celebrate the achievements, professional contributions, and lifelong association of its graduates with their alma mater. The event brings together alumni from across Pakistan and different parts of the world, providing an opportunity to reconnect with former classmates, faculty members, and the university community. The Alumni Gala serves as a platform for celebrating the professional accomplishments of LUMHS graduates, strengthening institutional relationships, fostering networking opportunities, and encouraging alumni engagement in the University's academic, research, and community development initiatives. By bringing together its global alumni network, LUMHS reinforces a lasting sense of belonging, institutional pride, and shared responsibility towards the advancement of medical education, healthcare, and society. The initiative also supports SDG 17 (Partnerships for the Goals) by strengthening global networks and institutional collaboration, and SDG 4 (Quality Education) through continued engagement with graduates and the exchange of professional knowledge and experience.





جامشورو : لیاقت یونیورسٹی آف میڈیکل اینڈ ہیلتھ سائنس کی جانب سے ہیلتھ پروفیشنل ایجوکیشن کی سالانہ بین الاقوامی کانفرنس 2025 کے موقع پر وائس چانسلر لمس پروفیسر ڈاکٹر اکرام دین اجن، چیرمین کانفرنس پروفیسر منور عالم انصاری اور دیگر اسٹیج پر موجود ہیں





Seminar: “In the Age of Artificial Intelligence”

Introduction

LUMHS organized a seminar with collaboration of The **Thari Students Alliance (TSA)** organized a seminar titled **“In the Age of Artificial Intelligence”** in Hyderabad on 27 November 2025. The seminar provided an important platform for students to engage with academics and experts on the rapidly evolving role of Artificial Intelligence (AI) in education, research, technology, and future careers. As Thar is a desert and very under resources area od Sindh where LUMHS has established community linkages to provide support in Health and education for overall sustainability.

The event brought together Thari students from different educational institutions, university academics, and members of civil society. It provided participants with an opportunity to discuss emerging technological developments, future academic opportunities, scholarships, research possibilities, and the skills required to participate effectively in an increasingly technology-driven society.

Panel Discussion and Academic Engagement

A major component of the seminar was a panel discussion focusing on the **future of Artificial Intelligence, research opportunities, scholarships, and academic preparedness**. The session was moderated by **Dr. Gulzar Usman, LUMHS**, and featured distinguished academics including:

- **Prof. Dr. Khanji Harijan**, Dean, Mechanical Engineering, MUET
- **Prof. Dr. Pardeep Kumar**, Chairman, Software Engineering, Quaid-i-Awam University, Nawabshah
- **Prof. Sujomal Meghwar**, Chairman, Department of Geography, University of Sindh

The discussion addressed technological transformation and the implications of AI for education and research. It also highlighted the importance of preparing students with relevant knowledge and skills to engage with emerging technologies.

Objectives of the Seminar

The seminar aimed to:

- Increase awareness among students about the growing role of Artificial Intelligence.
- Promote understanding of emerging technologies and their applications.
- Encourage students to explore AI-related research and academic opportunities.
- Highlight opportunities for scholarships and further education.
- Encourage academic preparedness for a technology-driven future.
- Connect students with academics and experts from different disciplines.
- Provide a platform for students from underserved backgrounds to engage with wider academic and professional networks.

The seminar particularly supported:

- Digital and technological awareness
- Critical thinking
- Research orientation
- Academic preparedness
- Lifelong learning
- Career and higher education awareness
- Interaction with experienced academics

Promoting Educational Inclusion

The participation of a significant number of **Thari students from different educational institutions** gave the seminar an important inclusion dimension.

Providing students from diverse educational and socioeconomic backgrounds with opportunities to interact with university academics and civil society can help broaden access to information about higher education, scholarships, research, and emerging fields.

Interdisciplinary Learning

The participation of academics from **mechanical engineering, software engineering, and geography** demonstrated the interdisciplinary nature of the discussion.

Artificial Intelligence has applications across numerous academic and professional disciplines. Bringing experts from different fields together enabled students to understand that emerging technologies can influence diverse areas of education, research, society, and professional practice.

Academic Networking and Partnerships

The seminar also contributed to **SDG 17: Partnerships for the Goals** by creating a platform for interaction among:

- Students from different institutions
- University academics
- Civil society representatives
- Student organizations
- Academic experts from different disciplines

Such platforms can facilitate knowledge exchange, networking, mentorship, and potential future academic collaboration.

Key Learning Outcomes

The seminar provided participating students with opportunities to:

1. Understand the growing significance of Artificial Intelligence.
2. Explore potential AI-related research areas.
3. Learn about the importance of developing future-oriented academic and technological skills.
4. Become more aware of scholarship and higher education opportunities.
5. Interact directly with experienced university academics.
6. Develop broader perspectives on technology and its implications for education and society.
7. Strengthening academic and professional networks.

Conclusion

The seminar **"In the Age of Artificial Intelligence"** provided an important academic and awareness-building platform for Thari students to engage with contemporary technological developments and the changing requirements of higher education and research.

The participation of distinguished academics and students from different institutions facilitated meaningful knowledge exchange on **Artificial Intelligence, research opportunities, scholarships, technological transformation, and academic preparedness**.

The activity made a significant contribution to **SDG 4: Quality Education**, while also supporting **SDG 9, SDG 10, and SDG 17** through technology awareness, inclusive educational engagement, interdisciplinary learning, and academic networking. The seminar demonstrated the value of connecting students with academic expertise and emerging knowledge to expand their learning opportunities and preparedness for a rapidly changing technological environment.







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LUMHS Hosts Events for Students from SOS Village School

Liaquat University of Medical and Health Sciences (LUMHS), Jamshoro, regularly hosts educational, recreational, and awareness activities for students from SOS Village School, providing opportunities for learning, and engagement. Through these initiatives, LUMHS promotes inclusive education, social interaction, health awareness, and exposure to diverse learning experiences. By welcoming students from SOS Village School to participate in university activities, LUMHS strengthens its engagement with the local community and demonstrates its commitment to supporting children's educational and social well-being. These efforts contribute to SDG 4 (Quality Education) by encouraging inclusive learning opportunities, SDG 3 (Good Health and Well-being) through health-related awareness activities, and SDG 10 (Reduced Inequalities) by fostering inclusion and access to educational experiences for children from diverse backgrounds.







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Session on SDGs and Quality of Education: Role of Students in Quality Enhancement

The Directorate of Quality Assurance / Quality Enhancement Cell (QEC), Liaquat University of Medical & Health Sciences (LUMHS), Jamshoro, organized a session on "SDGs and Quality of Education: Role of Students in Quality Enhancement" on 27 November 2025. The session was delivered by Prof Imran Ali Shaikh and Dr Fasiha Shah attended by students from under-resourced Colleges and faculty members. It highlighted the relevance of Sustainable Development Goal 4 (Quality Education) to institutional quality assurance, and the contribution of SDGs 3, 5, 10 and 17 to the learning environment.

Key themes included:

- The student's role as a stakeholder in programme evaluation, feedback and curriculum review
- Participation in quality assurance mechanisms, including course and teacher evaluations and student representation on committees
- Linking student-led initiatives to LUMHS's sustainability and accreditation commitments

The primary objective of the session was to engage students from colleges, particularly those from under-resourced institutions, and to raise their awareness of their role in the enhancement of the quality of education. The session aimed to introduce participants to Sustainable Development Goal 4 (Quality Education) and to encourage them to participate actively in feedback, evaluation and improvement processes within their institutions. By including students from under-resourced colleges, the Directorate of Quality Assurance / QEC, LUMHS sought to promote inclusive and equitable participation in quality assurance, and to help students see themselves as partners in building a culture of quality.





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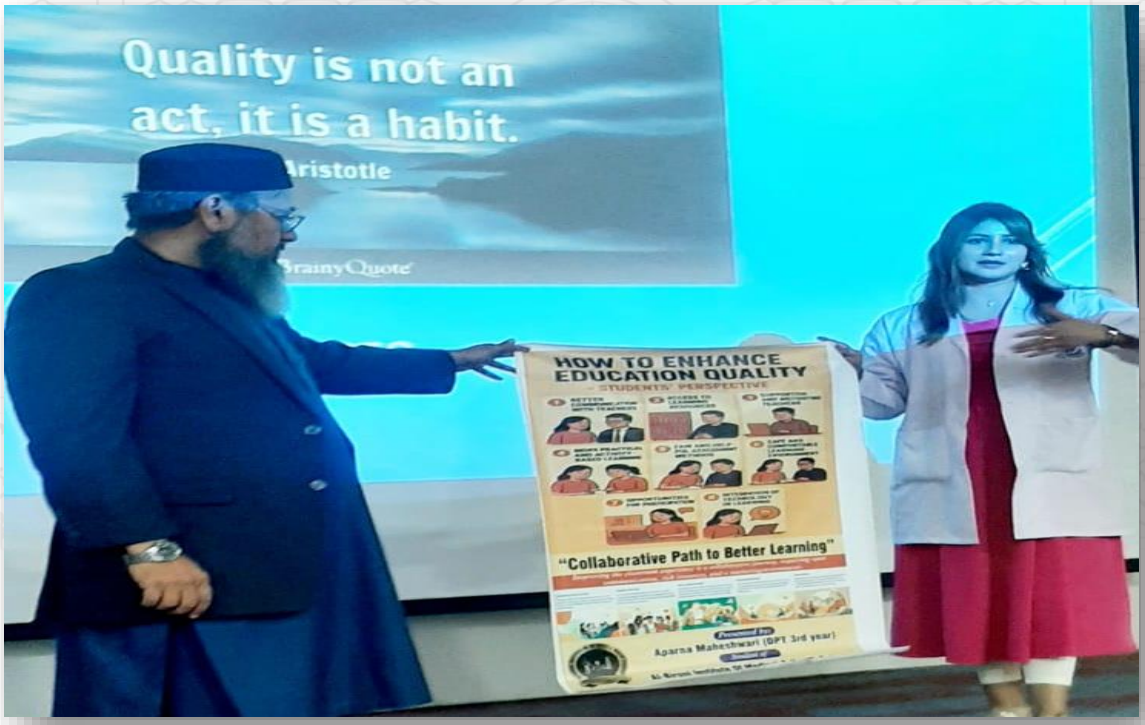

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Visit of High School Students from District Umerkot (an underprivileged rural area of province) to

On **28 November 2025**, Liaquat University of Medical & Health Sciences (LUMHS), Jamshoro, hosted a group of high school students from **District Umerkot** as part of its continuing commitment to facilitating and motivating the younger generation to pursue higher education and realize their academic aspirations. The visit built upon earlier educational visits by student groups from the same district and provided participants with an opportunity to experience a university environment firsthand. During the visit, the students were taken on a guided tour of the LUMHS campus and introduced to the University's academic environment, facilities, and diverse programmes in medical and health sciences. Faculty and staff interacted with the students, providing information about higher education pathways, admission opportunities, academic disciplines, and the range of professional careers that can be pursued in health and medical sciences. The exposure was particularly valuable for students from a district where access to specialized higher education opportunities may be more limited, helping them develop greater awareness, confidence, and motivation to continue their education. The visit also encouraged meaningful interaction between school students and the University community, allowing the students to ask questions, explore their interests, and envision themselves pursuing university education in the future. The enthusiasm, curiosity, and active participation of the visiting students made the engagement a valuable educational and motivational experience. Through such outreach initiatives, LUMHS extends its educational mission beyond its enrolled students, promotes aspiration and lifelong learning among young people, and strengthens its role as a community-oriented institution supporting **SDG 4: Quality Education**, while also contributing to **SDG 10: Reduced Inequalities** by creating greater awareness of higher education opportunities among students from underserved communities.

Outcomes

- Improved awareness among students of LUMHS programs and admission pathways.
- Motivation and inspiration for students to pursue higher education.
- Strengthened community and school engagement with the University.

Way Forward

LUMHS will continue to host such visits and explore further outreach activities for schools across Sindh, in support of its commitment to inclusive and quality education.





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From Flow to Force: Biofluid Mechanics, Biomechanics, and Applied Physics in Practice

The Institute of Biomedical Engineering & Technology (IBET), Liaquat University of Medical & Health Sciences (LUMHS) organized a hands-on educational workshop titled "From Flow to Force: Biofluid Mechanics, Biomechanics, and Applied Physics in Practice" at the Bio-Fluid Mechanics Lab, IBET, LUMHS on 16 February 2025. Facilitated by Engr. The workshop provided students from Cadet College Petaro with an opportunity to explore scientific concepts through practical laboratory-based learning. The activity introduced students to the principles of biofluid mechanics, biomechanics, and applied physics, demonstrating how the movement of fluids, forces, pressure, motion, and mechanical principles are applied to biological systems and biomedical technologies. Through hands-on demonstrations and interaction with the laboratory environment, students were able to connect concepts learned in the classroom with their practical applications in healthcare, engineering, and everyday life. The workshop also familiarized participants with the role of biomedical engineering in understanding human physiology, developing medical technologies, and solving healthcare-related challenges. By opening its specialized laboratory environment to school students, LUMHS encouraged scientific curiosity, experiential learning, and interest in STEM and biomedical sciences. The initiative strengthened university–school engagement and provided young learners with meaningful exposure to higher education, research facilities, and potential academic and career pathways. This outreach activity contributes particularly to SDG 4: Quality Education by

promoting inclusive, practical, and experiential learning, while also supporting SDG 9: Industry, Innovation and Infrastructure through exposure to biomedical engineering, scientific innovation, and applied technology.

Objectives

The workshop aimed to:

- Introduce students to fundamental concepts of **biofluid mechanics and biomechanics**.
- Demonstrate the relationship between **fluids, forces, motion, and biological systems**.
- Provide hands-on exposure to laboratory-based scientific experimentation.
- Develop students' understanding of measurement and observation in applied physics.
- Encourage curiosity and interest in **science, engineering, and biomedical technology**.
- Connect theoretical classroom concepts with practical applications.

Workshop Activities

During the workshop, students participated in practical demonstrations and hands-on activities related to the behavior of fluids, forces, and biological systems. They were introduced to laboratory equipment and measurement techniques and observed how principles of physics and engineering are applied to understand biological processes.

The interactive nature of the workshop allowed students to engage directly with scientific concepts rather than learning them solely through theoretical instruction. Demonstrations of fluid flow, forces, and biomechanical principles helped students understand their relevance to the human body and biomedical engineering.

Learning Outcomes

At the end of the workshop, students were able to:

- Develop a basic understanding of biofluid mechanics and biomechanics.
- Relate physical forces and fluid behavior to biological systems.
- Observe and interpret basic scientific measurements.
- Understand the practical application of physics and engineering concepts.
- Appreciate the role of biomedical engineering in healthcare and technology.
- Develop greater interest in STEM education and scientific exploration.

Conclusion

The **"From Flow to Force"** workshop successfully provided students with an engaging and practical introduction to biofluid mechanics, biomechanics, and applied physics. The hands-

on approach enhanced students' understanding of scientific concepts and encouraged them to explore future educational pathways in science, engineering, and biomedical technology. The initiative reflects LUMHS's commitment to promoting quality education, STEM awareness, experiential learning, and community educational engagement.

