

ANOTHER MILESTONE IN HISTORY OF INSTITUTE OF BIOMEDICAL ENGINEERING AND TECHNOLOGY, LUMHS.

Murk saleem, Faculty of Institute of Biomedical Engineering and Technology, LUMHS Jamshoro along with her students Sarena Talpur, Anam Bachal, Nazarudin Khoso, and Izhar Shah internationally represented IBET, LUMHS at International Medical Technology Conference 2017, UTM Joharbahru, Malaysia and got honor to receive “Best Presenter Award”.

Paper presented is titled as;

- Wireless Brain Computer Interface Streams Control Command.
- Labview Based Stryker Transport Stretcher



IBET – LUMHS students hit the milestone: Research paper published in IEEE Xplore!

The undergraduate students from IBET - LUMHS **Ms. Anam Bhatti** and **Ms. Huma Shah** got their research paper titled “Development of cost-effective tele-monitoring system for remote area patients” published in IEEE Xplore digital library, a leading engineering research database run by IEEE. The published research paper was an outcome from their undergraduate research thesis project that was supervised by Engr. Adeel Mehdi, and co-supervised by Engr. Hinesh Kumar, lecturers at the Institute of Biomedical Engineering & Technology (IBET), LUMHS, Jamshoro.

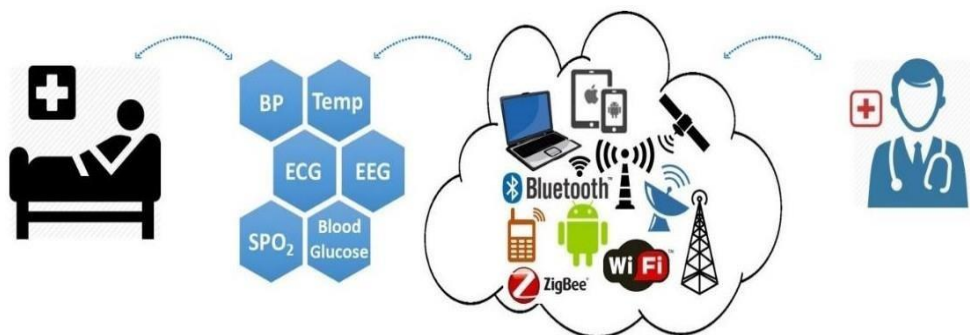
The team recently developed a novel, rapid and cost-effective healthcare tele-monitoring architecture based on an Arduino device hardware system. The developed system can be used to measure, monitor and transmit the important physiological parameters (e.g. temperature, ECG, SPO₂ etc.) of patients to remote locations in the form of vital signs in order to describe the status of their health and fitness. This system is best for distant locations and particularly useful for elderly patients who are either unable to move (due to critical conditions or physical disabilities) or are under continuous monitoring that make them unable to stay at hospitals for longer hours.

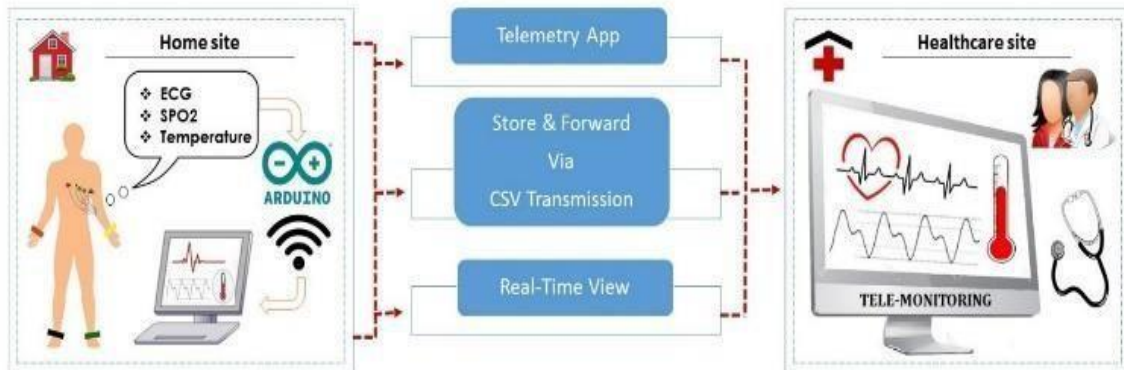
Another highlight of the study is its use and functioning in a real-time fashion. Using this system the diagnosis and treatment of patients can be performed by face-to-face online consultation with clinicians through safely transmitting the clinical data without moving the patients, which particularly will be helpful for reducing the casualties and its associated adverse events.

The team of students including their supervisor participated and presented their research study in International Conference on Emerging and Engineering Technologies (ICEET), sponsored by IEEE and held at Superior University Lahore during 22-23 February, 2018. Their conference comprised the keynote speeches of various speakers from international universities from America, China, Africa and Japan where they discussed about their cutting-edge research innovation in multiple fields of engineering and biomedical engineering.

The research was presented in ICEET (a top-notch IEEE conference) and published on IEEE Xplore (a leading research database) on April 19, 2018.

The full article entitled “Development of cost-effective tele-monitoring system for remote area patients” can be found online at IEEE Xplore website at: <https://ieeexplore.ieee.org/document/8338646/>









**PATEL
HOSPITAL**



Recreational Tour

A Study visit to the Patel Hospital Karachi was arranged for the students of 2015 batch of 7th semester of IBET department LUMHS, Jamshoro on 8th march 2018. A batch of 35 students along with Engr. Saeed Ahmed Maitlo and Engr. Adeel Mehdi, Department of IBET LUMHS, Jamshoro.

A visit started at 11:00 am from university, we boarded bus to the Patel Hospital around 1:00 pm. At the reception we were welcomed by the team members of Biomedical engineering staff of Patel Hospital. A detailed brief regarding each department was given during the visit this was followed by detailed presentation about the role of the hospital drug distribution system inventory management system functional machinery and equipments with their log book details and their biomedical engineering aspects. A Specialized Burn care unit was well equipped and functional at emergency. After tea break a group of students were divided into 12 members to visit all departments of biomedical engineering for 15 minutes each.

After the end of visit Mr: Iqbal Memon (HOD) appreciated & welcomed participants visit at the hospital and shared his experiences and offered that students may avail chance for internship at well reputed Hospital. A volunteer from group of visitors was given chance to express the visit and availing opportunity with experience regarding the field relevance department and future concerned. After that our teacher Sir Saeed Maitlo and Adeel Mehdi share vote of thanks and dedication to the hospital staff and HOD, by supplementing knowledge to up-grade of the machinery and equipments to the sensory techniques & methodology.

The visit ended with the hospitality by the Staff and Engineers of Patel hospital by sharing hand outs, calendars and Broachers. *(The purpose of visit was to ascertain information regarding working and facilities available at the hospital).*

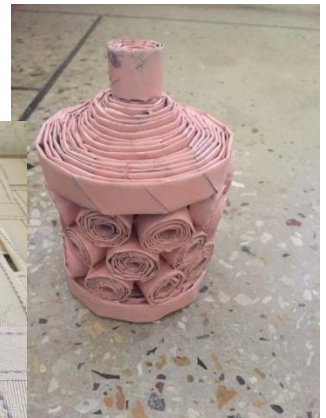


EVENT REPORT

Institute of Space Technology Islamabad (Pakistan) organized first Youth Carnival from 5th to 7th April 2018 in which 70 different events were arranged and 35 different universities all over Pakistan participated in Carnival. Students of Institute of Bio-Medical Engineering & Technology LUMHS, Jamshoro Sindh also participated in this event. On first day they presented their idea “Recycle to Renovate” in Recycling Model competition and on second day they presented their business plan and models for our idea “Ghar Sajawat” in Big Idea completion and on third day they presented their model named as “Sair e Wadi e Sindh (Insighting Valley of Sindh)” in Photo story competition.

As usual students of IBET, LUMHS acknowledged their competency by securing 2nd rank in Recycling Model Competition while in Big Idea and Photo Story Competition our students got third positions.





IBET LUMHS SECURED SECOND POSITION IN INTERNATIONAL MULTI TOPIC CONFERENCE 2018 IN THE CATEGORY OF POSTER SESSION

International Multi Topic Conference was held at Mehran University of Engineering and Technology, Jamshoro for three days from 25th April 2018 to 27th April 2018. IMTIC 18 was jointly organized by MUET Jamshoro and Erasmus Munds Strong Ties Program. It was an international forum for researchers to exchange information regarding novel aspects of technology, application and service development within the multi disciplinary fields of Information and Communication Technologies. The event was inaugurated by the Vice Chancellor.

Students from Institute of Biomedical engineering & Technology participated in IMTIC 2018 in the Category of Research Based Poster Session, and secure 2nd position.



