

# PROFILE

## Department of Mechatronic Engineering

Mehran University of Engineering Technology, Jamshoro

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## **BACKGROUND**

Mechatronic Department, MUET Jamshoro is the newest department established in 2021 that offers PHD, Masters and Undergraduate programs. Initially, the Master in Mechatronic Engineering degree program was offered from the year 2014. Subsequently, Ph.D. in Mechatronic Engineering was also offered. Both of these postgraduate programs are Higher Education Commission (HEC) approved. The four-year undergraduate degree program in Mechatronic Engineering was launched in the year 2016 under the administration of the Mechanical Engineering Department. After the establishment of the separate Department of Mechatronic Engineering, this program is being managed by the same.

Mehran University of Engineering and Technology is the first and the only public sector university in the province of Sindh offering the four-year B.E. in Mechatronic Engineering program.

## **OUR TEAM**

Our team comprises of highly qualified faculty members. The team leader, Prof. Dr. Jawaid Daudpoto, PhD (Leeds University, U.K.), also serves as the chairman of the department. The core members include Dr. Saifullah Samo, PhD (BIT, Beijing, China), who oversees the Robotics and Industrial Automation Lab, and Dr. Shadi Khan, PhD (Turkey), who manages the Instrumentation and Measurement Lab. (<https://www.muett.edu.pk/departments/mechatronic-engineering/mission>).

## **STATE OF THE ART LABORATORIES**

The department consists of Six State of the Art Laboratories which offer valuable and high Quality engineering services to the University as well as to external clients for diversified applications. Our labs are named below:

1. Robotics Lab.
2. Instrumentation and Measurement Lab
3. Industrial and Automation Lab
4. Computer Lab
5. Project and Circuit Design Lab
6. Modelling and Simulation Lab.

Our Lab has advanced machines and equipments such as 3D Printer, CNC Milling Machine, NI ELVIS Workstation, NI ELVIS Mechatronic Sensor Trainer, NI Prototyping Board, Data Acquisition Boards, PLC trainers and many others.

## **TRAINING & CONSULTANCY SERVICES**

The focus of the department is to provide training and consultancy services in the following areas.

1. Design of Programmable Logic Controller (PLC)
2. CAD/ CAM Manufacturing
3. Circuit Design
4. Testing and Calibration of Sensors and Controllers.
5. Machine Learning and Machine Vision
6. Robotic and Industrial Automation Solutions.
7. Health and Safety.