



# Capital University of Science & Technology, Islamabad

## Workshop on Signal Processing using LabVIEW and Software Defined Radio (SDR)

The workshop is dedicated to provide participants/students with hands on expertise in LabVIEW using key concepts related to Signal Processing/Communication and to enable them to learn interfacing of Software Define Radio (SDR) with LabVIEW.

### Learning Outcomes

#### Introduction to LabVIEW

- Purpose
- Functions
- Tools
- Manipulations

#### Signal Generation

- Sine Wave and Square Wave
- Pulse Waveform
- LFM Waveform
- Idea of Fourier Series
- Noise Addition to signal

#### Frequency Domain Characterization of Signal & Filtering

- FFT
- Filter Design and Implementation

#### Introduction to SDR and FPGA

**30<sup>th</sup> Nov-01<sup>st</sup> Dec 2020**

**11AM - 04 PM**

**Registration Deadline**

**30<sup>th</sup> Nov 2020**

**Application Fee**

**1,000 PKR**

Registration Forms available at **ORIC Office, H-Block** and **CUST Website** <https://cust.edu.pk/downloads>

Submit the filled Application Form in **ORIC Office** or Email at [✉ raheel.anjum@cust.edu.pk](mailto:raheel.anjum@cust.edu.pk) before **30<sup>th</sup> Nov 2020**

For further Information Contact: **Muhammad Raheel Anjum, Assistant Director, ORIC** 📞 **03315293054**