

Fdp on Graphical System Design in Signals & Systems, DSP and Speech Processing using NI LabVIEW on 19th to 21st June 2016

Signals & Systems, DSP is a foundational course for any engineering student. It is very important for these concepts to be clear for working on any electrical / electronics / communication application. NI teaching tools facilitate to teach Signals & Systems, DSP and application areas of DSP such as Speech processing & Image Processing.

NI LabVIEW is ultimate system design software provides engineers and scientists with the tools they need to create and deploy measurement & analysis systems. It is the premier development environment for problem solving, accelerated productivity, and continual innovation.

Using NI LabVIEW environment, 3 days FDP has covered following topics

- Graphical Systems Design in DO Engineering
- Graphical Programming in LabVIEW (Hands-on)
- DSP: WHY? WHAT? HOW? Industrial application of DSP
- Acquire, Analyze and Display using NI myDAQ (Hands-on)
- Signal Analysis in temporal and spectral domain (Hands-on)
- Signal Processing operators in LabVIEW (Hands-on)
- Design and Implementation of Digital Filters in LabVIEW (Hands-on)
- Acquiring and processing audio & image signal in LabVIEW (Hands-on)
- Short time processing of speech signal
- Demonstration of various NI hardware useful in academic

area

