

# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC - AUTONOMOUS)

**Report on**

**A Two-day Online Faculty Training Programme**

*" LabVIEW based Real Time Measurement for Engineering Applications"*

**Jointly Organized by**

**Department of EEE, MITS, Madanapalle  
&  
Innovative Invaders Technologies, Coimbatore**

**16th – 17th March 2021**

**Report Submitted by: Dr M. Chakkarapani, Assoc Professors, Dept of EEE, MITS.**

**Resource Person: Mr. V. Rajasekaran, Innovative Invaders Technologies, Coimbatore.**

**Participants: 33 Faculty members and 05 PhD research scholars from various institute.**

The Faculty Training Program started with an inaugural session, the convenor Dr. A.V. Pavan Kumar HoD of EEE Department gave opening remarks about the program. Prof. Dr. P. Ramanathan, Vice-Principal (Academic) stressed the importance of the LabVIEW Platform and advised all the participants to make use of this of the program. FTP coordinator Dr. M. Chakkarapani, Assoc Professors, Dept of EEE, MITS and expertise of the resources persons, introduced the resource person Mr.V Rajasekaran from Innovative Invaders Technologies, Coimbatore. The speaker has highlighted the importance of LabVIEW for various engineering applications and how to use for real-time measurement and control application using the same. The resource person has delivered the following topics in two days online faculty training program using LabVIEW Software.

## **Day 1: 16-03-2021**

**Session 1:** 09:00AM to 10:30 AM: Introduction to the LabVIEW programming.

**Session 2:** 10:45AM to 01:00 PM: Modular Programming: Adding timing to your code & decision-making structures.

**Session 3:** 02:00PM to 03:15 PM: Data Acquisition using c-series modules.

*Session 4:* 03:30PM to 04:30 PM: Synchronizing the multiple channel readings & Data logging.

**Day 2: 17-03-2021**

*Session 1:* 09:00AM to 10:30 AM: Analysing the stored waveform from files in LabVIEW.

*Session 2:* 10:45AM to 01:00 PM: FFT & signal analysis using LabVIEW.

*Session 3:* 02:00PM to 03:15 PM: Introduction to Electric Power Suite in LabVIEW.

*Session 4:* 03:30PM to 04:30 PM: General queries & answers.

**Feedback:** The faculty were too enthusiastic to learn about the LabVIEW software and using the basic knowledge of LabVIEW software, they have developed measurement block for real-time measurement and testing.