Potti Sriramulu Chalavadi Mallikarjunarao College of Engineering & Technology

Department of Electronics and Communication Engineeering

MODROBS Sponsored One Week Faculty Development Programme On

"Advance Technical Trends of Wireless Communication and Instrumentation using NI LabVIEW Software"

from 06.02.2023 to 10.02.2023

FDP ON "Advance Technical Trends of Wireless Communication and Instrumentation using NI LabVIEW Software (MODROB Sponsored)" REPORT

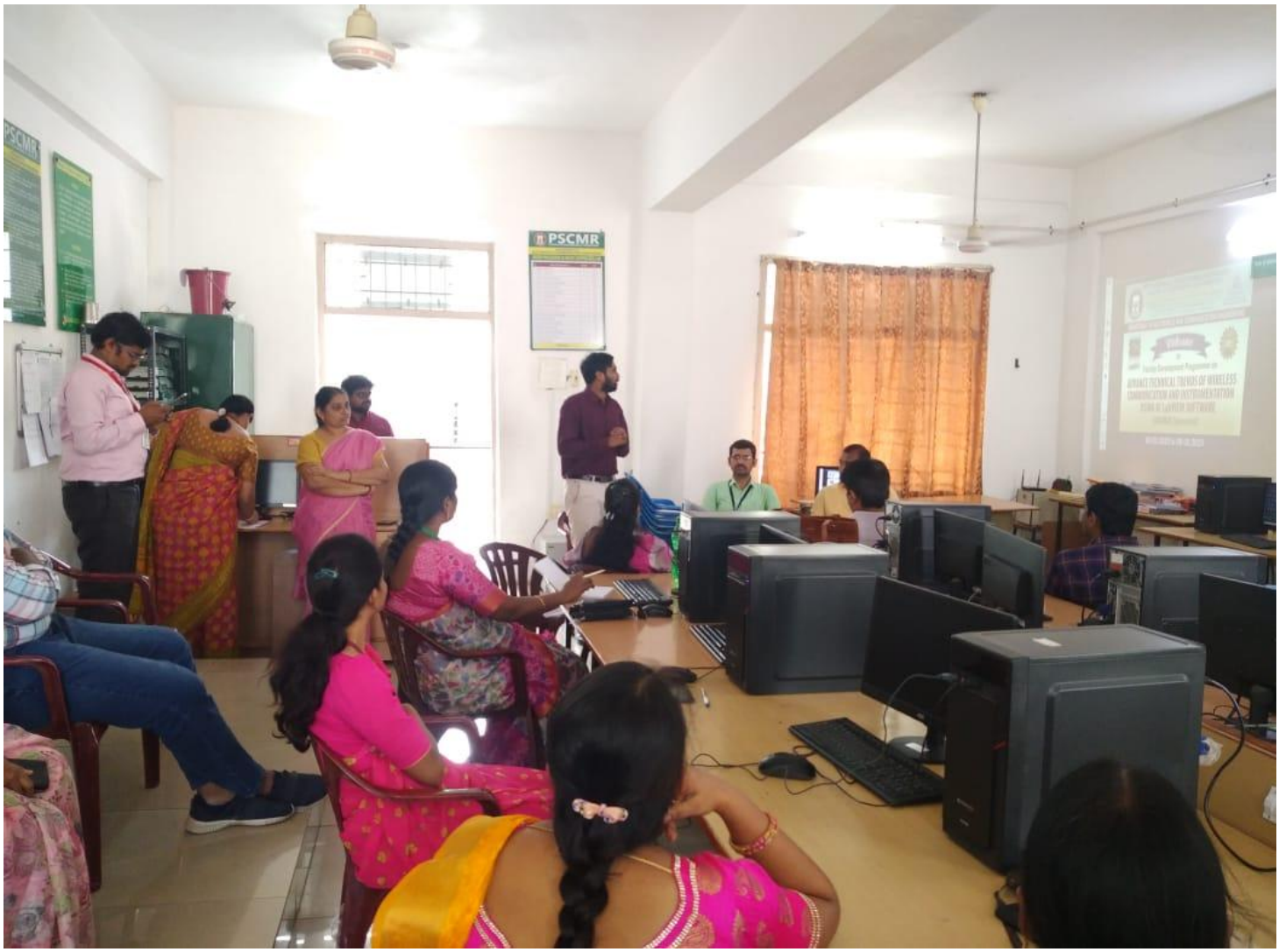
The Department of Electronics and Communication Engineering, Potti Sriramulu Chalavadi Mallikarjunarao College of Engineering & Technology conducted a Faculty Development Programme (FDP) on "Advance Technical Trends of Wireless Communication and Instrumentation using NI LabVIEW Software" in association with National Instruments and Techfluent Solutions Private Limited from 06.02.2023 to 10.02.2023. The FDP program received an overwhelming response with 20 participants from various colleges approved by AICTE. This FDP is planned for one week to comprise 10 technical hands- on sessions & 10 Lecture Sessions on topics like Introduction to NI LabVIEW Software , Getting started with NI LabVIEW Programming, Introduction to NI MyDAQ Hardware, Measurements with NI myDAQ Hardware and Programming with NI DAQ, Introduction to NI MyRIO Hardware, Getting started with NI MyRIO Applications and Examples, Introduction MOKU GO Hardware,Performing Experiments using MOKU GO Hardware, Introduction to NI USRP, Exploration of the NI USRP Block Diagram, Getting started with Examples on the USRP,Programs for Training (Sine Wave transmission , FM Broadcasting , Message Transmission using PSK Schemes Etc), Experiment Manuals discussion on NI USRP.

ABOUT THE FDP

LabVIEW provides the state-of-the-art way to effectively teach and learn basic and advanced engineering concepts using a graphical programming platform. Nowadays engineers and scientists rely on LabVIEW for a variety of applications: test and measurement, process control and automation, monitoring and simulation. The objective of faculty development program is to present theoretical and practical concepts and hands-on in LabVIEW intended to teach participants tools of LabVIEW with an emphasis on various applications.

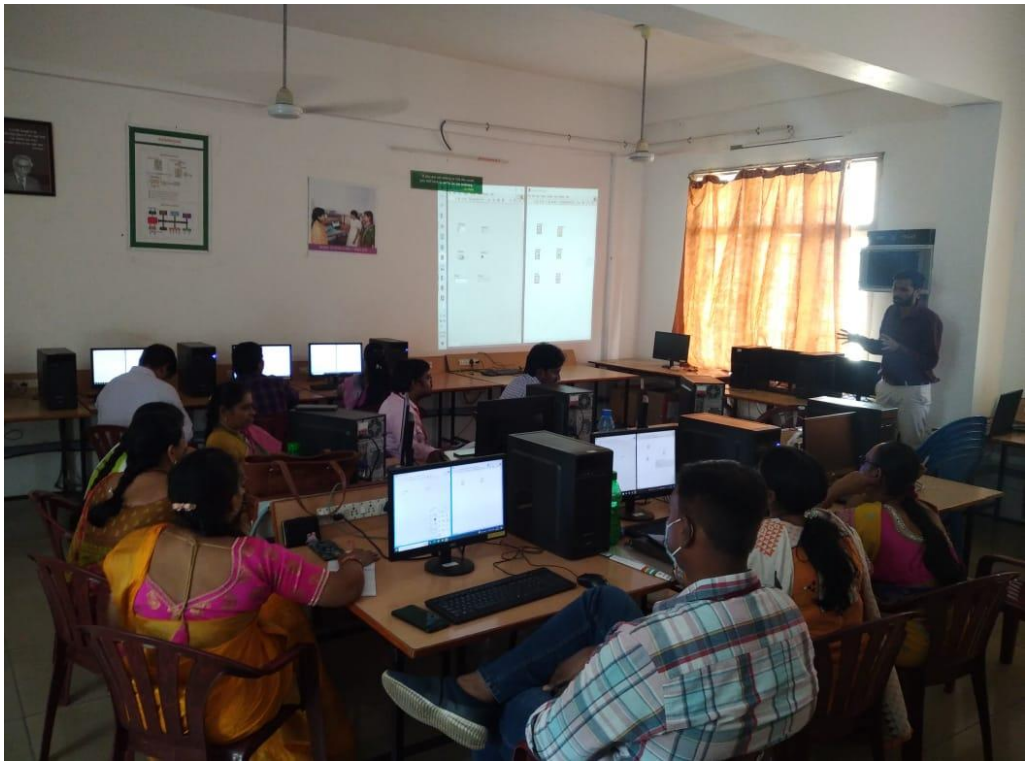
This Faculty Development Programme has introduced the fundamental principles of graphical system design using NI LabVIEW. Hands on training with NI hardware are also given to the participants. The experts from NI, Techfluent Solutions Private Limited had conducted the training sessions. The detailed report about the FDP is given as below:

Day 1 – On Session 1: Inaugural function is started at 9.30am in the MPMC Lab. The co-coordinators, K. Sundar Srinivas, K. Raghavendra Rao welcomed the speaker, dignitaries and participants of the FDP.

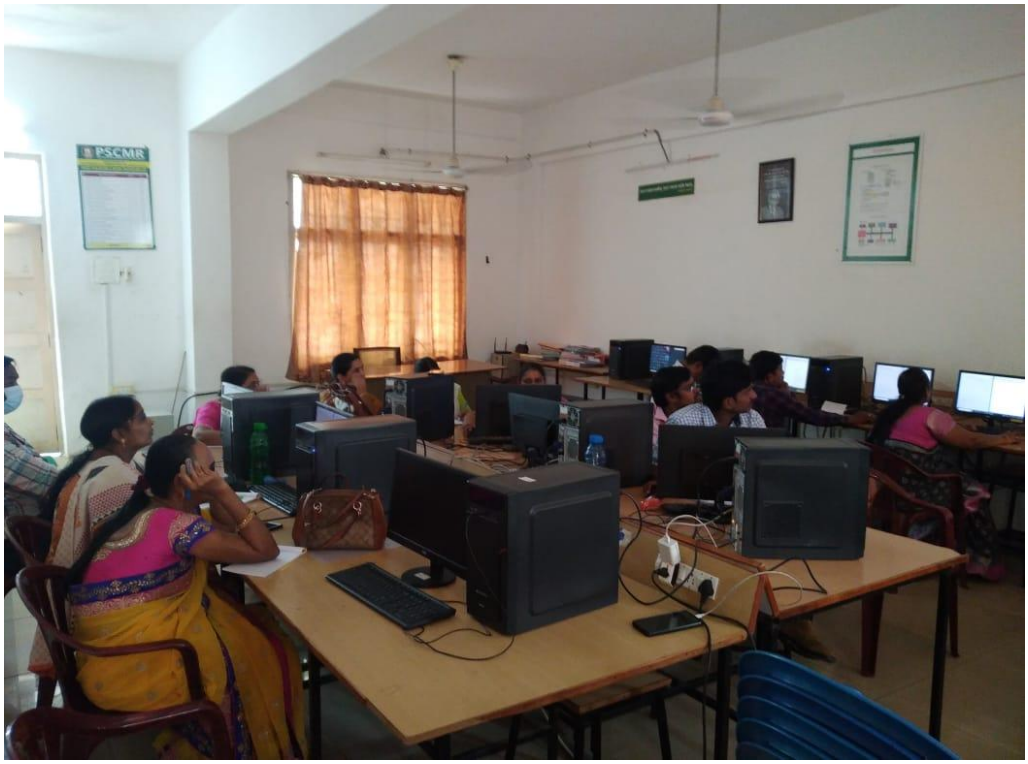


Mr. Rohith Goud, Tech-Lead Engineer, Techfluent Solutions Private Limited describing the possible outcomes of the FDP.

On session -2, Introduction to Graphical System Design Software, Hands on training: Measurements with NI myDAQ Hardware and Programming with NI DAQmxby Mr. Rohith Goud.



Day 2 –: Performing Experiments using MOKU GO Hardware, Introduction to NI USRP, Exploration of the NI USRP Block Diagram



Valedictory Session:

Receiving an overwhelming response from participants, the one week FDP on '*Advance Technical Trends of Wireless Communication and Instrumentation using NI LabVIEW Software (MODROB Sponsored)'* came to an end with the Valedictory Session, graced by Hon'ble Principal, Dr. J. Lakshmi Narayana, Dr. A Ravi, ECE HOD. On 10/02/2023, Mr. Rohith Goud is felicitated by the Hon'ble Principal and ECE HOD.

Certificates were distributed to the participants. The dignitaries honored the participants with the certificates. It's the constant endeavor of the Institute to improve the quality of its continuing academic courses. Participants' observation/feedback is critical in improving the quality of the courses. Some suggestions were given by the participants on timing, few topics and field visits for further improvement of the course structure.

Vote of Thanks was delivered by K Sundar Srinivas, Assistant Professor, ECE Department, PSCMRCET, in which he has been paid the gratitude towards all the dignitaries who has spared their time and come from a far distance places to share their expertise with the participants. Nevertheless, he has given thanks to sponsoring body of this FDP i.e. AICTE with these words, "**We are highly thankful to the AICTE for providing financial assistance to establish MODROBS Lab and to organize this FDP in our campus and hope we will find the support in future also for organizing such kind of activities."**