



GUJARAT TECHNOLOGICAL UNIVERSITY

(Established Under Gujarat Act. No.:20 of 2007)

Date: 24-10-2016

CIRCULAR

Interested faculty members and students may register for the following webinar which is going to be held on Thu, Oct 27, 2016 3:30 PM - 4:30 PM IST.

Special NI Webinar: Integrated Machines & Drive Systems Lab at GVPCE Visakhapatnam - An Overview

Thu, Oct 27, 2016 3:30 PM - 4:30 PM IST

Registration URL: <https://attendee.gotowebinar.com/register/5059083174697793794>

Description:

The objective of the seminar is to bring in early on the need for integrating the various sub-systems/course modules for the total understanding of Electrical Engineering in an integrated system format. This integrated electrical machines & drive systems lab has the following subsystems or components: Each work bench has :electric machines (dc motor, Induction motor and synchronous machine); power electronic converters for dc / induction motor speed control, DAQ hardware to sense current/ voltage coupled with LabVIEW software , all working in PC windows environment. In addition one has load modules as well as a variac, with the primary and secondary isolated to experiment with Power converters in safe environment. Students can work more efficiently, as there is a plug-play concept.

Such a facility, with 8 work benches has been effectively used both for the undergraduate and graduate students in GVP College for the last one and half years.

There are a few such laboratories built in India, the first in the series is being at IIT- Madras (IIT-M), built by Rockwell Automation(I) Ltd. , while National Instruments software: LabVIEW has been integrated with this facility by us on similar lines to what one sees at IIT-M. We have made use of LabVIEW coupled with Multisim software for effective modeling, analysis & simulation of Power Electronic systems, while experimental data is derived through DAQ for model verification/experimentation.

Presenter:

**Dr. Sastry V Vedula,
Senior Professor, EEE Department,
GVP college of Engineering (GVPCE)
Visakhapatnam**

Sd/-
Registrar (I/c)