



Rashtreya Sikshana Samithi Trust
R .V. College of Engineering, Bengaluru- 59
Department of Electronics & Instrumentation Engineering



Do – Engineering using NI Technology

About RVCE

R.V. College of Engineering (RVCE), Bengaluru, Karnataka, South India, is one of the premier Engineering institutes of the country. Established in 1963. The college currently has about 5600 students and over 400 faculty and 250 support staff. RVCE currently offers 12 Bachelors and 22 Masters Programs in various disciplines of Engineering with an annual intake of about 1750 students. There are 16 centers of research with provision for Ph. D Studies. RVCE has set a vision “Leadership in Quality Technical Education, Re-search & Innovation, through Teamwork, with a focus on Development of Sustainable and Inclusive Technology”. Keeping with the vision the faculty and students are encouraged to take up interdisciplinary research projects. RVCE has been awarded “Engineering College of the Year-2015” by the Higher Education Review Magazine for Enhancing Employability during December 2015. RVCE believes in skill and knowledge development among the faculty. This is achieved through FDP and Re-search initiatives. The Institution is looking at promoting Entrepreneurship in a big way.

Objectives: The student will be able

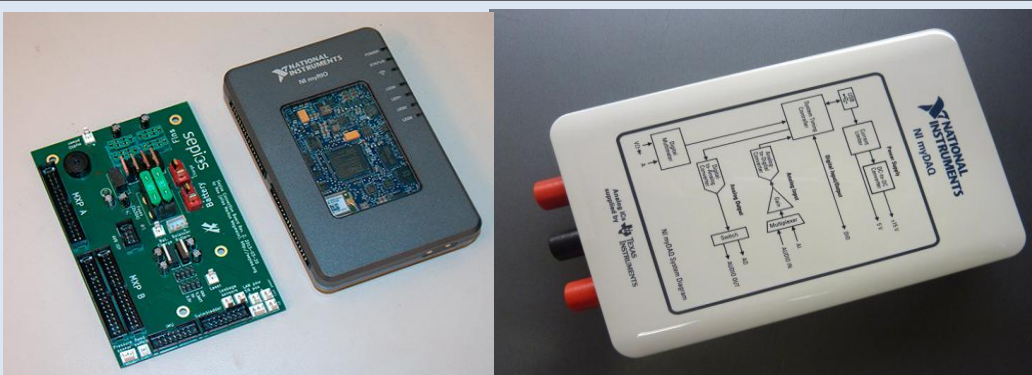
- To familiarize the basics and need of VI.
- To get better understanding of data acquisition techniques
- To have an exposure to different interfacing techniques
- To design some real time application using myRIO and myDAQ

Outcomes

- Develop your application within the LabVIEW environment.
- Perform the measurement and store the data in file and analyze using LabVIEW.
- Create Professional user interfaces with outside world.
- Acquire the signals using myDAQ and myRIO cards.
- Develop a stand-alone application using myRIO

About Course

Virtual Instrumentation is combining hardware and software with industry standard computer technologies to create user defined instrumentation solution. LabVIEW is the easiest, most powerful tool for acquiring, analyzing and presenting real world data. It is a platform for developing the graphical user panel and the code for the virtual instruments. MyRIO is a real-time embedded evaluation board made by National Instruments. It is used to develop applications that utilize its onboard FPGA and microprocessor. It will help in their minor and major projects and also add weight age for placements and it will help in internship at companies using LabVIEW.



Course Content

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| DAY 1 | Hands on LabVIEW Programming concepts using LabVIEW Environment, Loops, Structures, Array |
| DAY 2 | Hands on LabVIEW Concepts- Clusters, String , File Operation |
| DAY 3 | Hands on LabVIEW Concepts- Graphs, Chart, Event Structure, Advanced Topics. |
| DAY 4 | Introduction to data Acquisition (DAQ), Integration of Sensors starter kit with NI myDAQ |
| DAY 5 | Introduction to NI myRIO Hardware Platforms, Hands on Programming on building different RIO Architecture |
| DAY 6 | Integration of Mechatronics Sensors Kit with NI myRIO, Hands on Programming on NI myRIO for Standalone System with Sensors kit integration |

E&IE Department:

The Department was established in the year 1981 and has an intake of 60 in UG and 18 in PG(M.Tech in BMSP & Instrumentation) and Research Centre affiliated to VTU. The Department has been accredited multiple times by NBA, New Delhi the latest being in 2013 for UG and 2014 for PG. The Department has been imparting quality Engineering Education with blend of research components in line with Institutional Vision. The department has also been grooming students continuously in all facets of Creative Learning, Technical Competency; Character building and Overall Personality Development. Highly Qualified, experienced and dedicated faculty members is the forte' of Electronics &Instrumentation Engineering Department. It comprises of 6 faculty members with doctoral qualification and 10 faculty members pursuing their doctoral degree from various prestigious Universities. The department has well equipped state of art laboratories to bridge the industry-academia gap.

NI LabVIEW Academy @ RVCE

The LabVIEW Academy set up at RVCE by National Instruments is an initiative under their Planet NI (Nurturing Innovation) framework which strives to increase the employability of Indian engineering graduates by creating Centers of Excellence in engineering colleges & universities which will provide cost effective access to world class latest technology for classroom teaching- learning. To make better engineers the LabVIEW Academy follows the concept of Experiential Education using Graphical system design approach. The LabVIEW Academy, with its hardware and software tools, empowers the RVCE to implement this belief and work on Algorithm engineering. The Academy will also enable both students and faculty to prepare for Certified LabVIEW associate developer (CLAD).

Registration Details:

Registration Fee: 3450/- (Including tax)

Course Starts From: 24th July to 29th July 2017

Registration Fee can be paid through DD drawn in favor of Principal, RVCE

No. of seats available: 25 .

Registration @ <https://goo.gl/forms/Q3oNKvsiGK8dyPnV2>

Resource Person: Experts Persons VI Solutions & Academician

Coordinators:

Prof. Harsha & Prof. Rajasree P M , Assistant Professor,

Department of Electronics & Instrumentation Engineering , R.V.College of Engineering, Bengaluru, India

(M) 9902000630 / 9742518776 (O) 080-6717 8044/45

Email: harsha@rvce.edu.in, rajasreepm@rvce.edu.in