

Two Days National Workshop on  
“Real-Time Applications using  
LabVIEW with Arduino”

16<sup>th</sup> – 17<sup>th</sup> March 2018

**REGISTRATION FORM**

Name .....

Sem & Branch.....

College .....

Address.....

Mobile No.....

Email.....

D.D. No. ....Date.....

Amount.....

Details of Bank.....

Accommodation Required

(Yes/No).....

Signature of the Applicant

Place:

Date:

**WHO CAN ATTEND**

Final year and Prefinal year UG students  
and PG students from engineering colleges  
across India.

**REGISTRATION FEE**

Students (UG/PG)\* : Rs. 1000/- (inclusive  
of all taxes)

\* Students have to produce college ID card

Filled up registration form and demand  
draft drawn in favor of **PSG CNCE** payable  
at Coimbatore to be sent to the  
coordinator on or before 10.03.2018. As  
limited number of seats is available  
(maximum 30), selection of candidates will  
be on first come first served basis.

**VENUE**

PSG-NI Virtual Instrumentation Centre  
Y-Block, III Floor,  
PSG College of Technology, Coimbatore

**ADDRESS FOR CORRESPONDANCE**

The Coordinator  
National Workshop on Real-Time  
Applications using LabVIEW with Arduino  
PSG-NI Virtual Instrumentation Centre  
PSG College of Technology  
Peelamedu, Coimbatore 641004  
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Tel: 0422-2572177, Extn: 4366, 4261  
Mobile: +91-9080335124

Two Days National Workshop on  
**Real-Time Applications  
using LabVIEW with  
Arduino**

16<sup>th</sup>-17<sup>th</sup> March 2018



Organized by

**PSG-NI Virtual  
Instrumentation Centre**

Coordinators  
**Dr.S.Kanthalakshmi**  
**Mr.S.Navaneethan**  
**Ms.G.Pradeepa**

**PSG COLLEGE OF TECHNOLOGY**  
Peelamedu, Coimbatore 641004  
Tel: 0422-4344777, 2572177  
Website: [www.psgtech.edu](http://www.psgtech.edu)



## ABOUT THE CENTRE

PSG-NI Virtual Instrumentation Centre is a collaborative centre started in the year 2000 by PSG College of Technology and National Instruments (NI), USA which is the first centre in India in the field of Virtual Instrumentation. Intensive training programmes and short term courses on LabVIEW programming are continuously organized by the centre for the students and faculty of engineering colleges and professionals from research organizations and industries. The centre also organizes research workshops in the fields of control systems, machine vision and image processing. The centre received Best Graphical System Design Lab award when the award was first instituted by NI.

## ABOUT THE WORKSHOP

This workshop aims at giving hands-on experience of implementing real-time applications using Arduino with LabVIEW graphical programming. LabVIEW is a most widely used visual/graphical system design platform and development environment for data acquisition, instrument control and industrial automation. Arduino, an open source hardware platform, is an easy to use, simple hardware, beginner's first choice microcontroller development board. This workshop integrates the above two powerful and industrial used platforms to

practice implementing real-time applications. The workshop is suitable for beginners interested to start their work in the embedded. At the end of the workshop, the participants will be able to interface arduino with LabVIEW.

## Course Objective

- ✓ To provide the detailed exposure of LabVIEW visual programming and Arduino hardware platform.
- ✓ To facilitate the understanding of the interfacing technique of different automation devices and tools like Sensors, Motors, Actuators and switching devices.
- ✓ To create a drive to build real world embedded & automation applications using Arduino's analog & digital I/O.



## TOPICS TO BE COVERED

- Getting Started with LabVIEW
- Programming techniques in LabVIEW
- Understanding NI Data Acquisition Cards
- Introduction to Arduino Platform
- GPIO Interfacing
- ADC and Sensor Interfacing
- Serial Communication
- LabVIEW Interface for Arduino
- Real-time applications

## RESOURCE PERSONS

Academicians from PSG College of Technology

## IMPORTANT DATES

Last date for registration : 06.03.2018  
Intimation of selection : 08.03.2018  
(Through Email)

## ACCOMMODATION

Accommodation can be arranged at PSG Tech Hostel at a nominal rate. As limited accommodation is available, participants are requested to confirm in advance.