

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

22nd- 23rd February 2019

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 12.02.2019. 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
psgvicentre@gmail.com,
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Tel: 0422-2572177, Extn: 4261
Mobile: +91-9788474942

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

22nd- 23rd February 2019



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: 0422-2572177

Website: 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 : 12.02.2019
Intimation of selection : 14.02.2019
(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.