

Two Days Hands-on training  
programme on

**Real-Time Applications using  
LabVIEW with Arduino**

29<sup>th</sup> – 30<sup>th</sup> March 2025

**REGISTRATION FORM**

Name .....

Sem & Branch.....

.....

College .....

Address.....

.....

.....

Mobile No.....

Email.....

**Payment details:**

Mode of payment: .....

Reference no. and Date: .....

Signature of the Applicant

Place:

Date:

**REGISTRATION**

**Registration fee is Rs.1500/- (inclusive of GST). The registration closes on 22.03.2025.**

As limited number of seats is available, selection of candidates will be on first come first serve basis. Registration form can also be downloaded from the college website. Registration fee covers course fee, lunch and refreshments. Outstation participants need to arrange their own accommodation.

**For registration click the following link**

<https://forms.gle/wQ2rrC56SwEo9Qx98>  
or  
**scan the QR code**



**For other queries contact**

**Dr.S.Navaneethan**

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Organized by

**PSG-NI Virtual Instrumentation  
Centre**

Coordinators

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

**PSG College of Technology  
Peelamedu, Coimbatore 641004  
Tel: 0422-2572177  
Website: [www.psgtech.edu](http://www.psgtech.edu)**

**Online Payment Details :**

PSG Centre for Nonformal and Continuing Education  
Central Bank of India,  
Peelamedu Branch  
Account Number : 1481267367  
IFSC Code : CBIN0280913

## ABOUT THE INSTITUTION

PSG College of Technology established in 1951, is one of the many educational nurtured by PSG & Sons Charities Trust. The college is Government Aided, Autonomous, ISO 9001: 2015 Certified and Affiliated to Anna University. The institution is equipped with latest facilities and excellent infrastructure. The college offers programmes in Management at UG and PG levels. The institution has strong alumni positions in many educational, industrial and research organizations all over the world base, most of them occupying coveted Science, Engineering and Technology.

## 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.

## ABOUT THE TRAINING

This training programme 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 OBJECTIVES ARE TO

- ✓ Provide the detailed exposure of LabVIEW visual programming and Arduino hardware platform.
- ✓ Facilitate the understanding of the interfacing technique of different automation devices and tools like Sensors, Motors, Actuators and switching devices.

- ✓ 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 : 22.03.2025

Intimation of selection : 25.03.2025

(On or before through Email)

