Two Days Workshop on

Real-Time Applications using LabVIEW with Arduino and Raspberry Pi

29th – 30th July 2022

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).

Filled up registration along with payment proof to be sent to the coordinator **on or before 23.07.2022.**

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.

For registration and payment contact

Dr.S.Navaneethan

Coordinator

Two Days National Workshop on

COMPUTER VISION AND IMAGE PROCESSING

PSG-NI Virtual Instrumentation Centre

PSG College of Technology

Peelamedu, Coimbatore 641004

Email:psgvicentre@gmail.com/

snn.ice@psgtech.ac.in

Mob.: +91 9788474942/8248684889

Two Days Workshop on

Real-Time Applications using LabVIEW with Arduino and Raspberry Pi

29th – 30th July 2022

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

ABOUT THE CENTRE

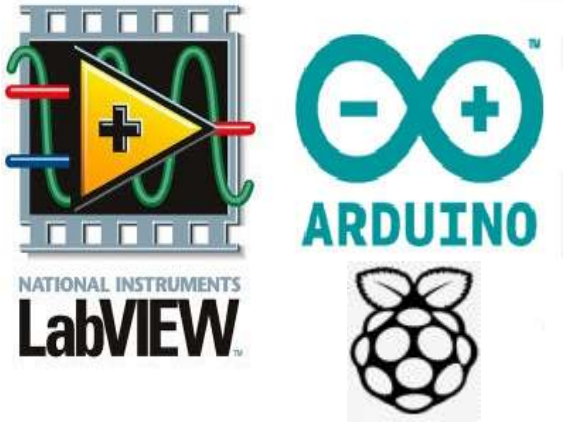
PSG-NI Virtual Instrumentation Centre is a collaborative centre started in the year 2000 by PSG College of Technology and National Instruments (NI), USA which is the first centre in India in the field of Virtual Instrumentation. Intensive training programmes and short term courses on LabVIEW programming 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
- ➢ LabVIEW Interface for Raspberry Pi

RESOURCE PERSONS

Academicians from PSG College of Technology

IMPORTANT DATES

Last date for registration : 23.07.2022

Intimation of selection : 25.07.2022

(On or before through Email)