



राष्ट्रीयइलेक्ट्रॉनिकीएवंसूचनाप्रौद्योगिकीसंस्थान,कालीकट  
National Institute of Electronics & Information Technology, Calicut



सत्यमेव जयते

Ministry of Electronics and  
Information Technology  
Government of India

# Internship Training Prospectus

ISO 9001-2015 Certified

## Embedded System Design with Arduino

Starting from 10<sup>th</sup> August 2020  
(3 Weeks - 2 Hours Daily)

### Course Description

This is a course on Embedded System Design with Arduino which provides understanding of Embedded Systems, Architecture of Embedded System, Basic C Programming and Experiments using Arduino UNO Development Board. The Course is planned with Video Lectures, Instruction Led Live Discussions and Demonstrations.

[Click Here to Register](#)

## Who can attend?

Students Pursuing Engineering and Completed up to Sixth Semester of the BE/B.Tech Course in

- *Electronics/ Electronics & Communication/ Electrical/ Electrical and Electronics/Instrumentation/ Biomedical /Computer Science/Information Technology.*

## Course Content

Session	Topic
1	Embedded Systems Overview
2	Architecture of Embedded Systems
3	Embedded Trends and Projects
4	Basic C Programming Concepts
5	Getting Started with Arduino IDE
6	Introduction to Communication
7	Proto typing Basics
8	Sensors and Actuators for Embedded System Design
9	GPIO Programming in Arduino- Demonstrations
10	Sensors Interfacing in Arduino - Demonstrations
11	Interfacing with smart Phone Application-
12	Mini Project Discussion

## Fee and important dates

<b>Fee</b>	Rs. 2000/- (Including GST)
<b>*Last date for registration &amp; payment for first batch</b>	9 <sup>th</sup> August 2020

<b>Sharing of Link / passwords &amp; other details</b>	<b>10<sup>th</sup> August 2020</b>
<b>*Subsequent batches will start every fortnight or as per demand</b>	

## **Certificate**

E-Certificates of Internship Participation will be issued to all completed candidates

## **Minimum System Requirements**

- Attendees must have a computer system with a good internet connection.
- Computer System Configuration – Windows OS 7/8/10, i3/i5, 64bit processor, Minimum 4GB RAM

## **Faculty Profile**

Qualification and experience of the faculty handling the sessions

1. Shoukath Cherukat – Scientist/Engineer ‘E’, M.TechECE (ES), 20 Years of Experience
2. Manoj N– Senior Technical Officer, Diploma in Electronics, 24 Years of Experience
3. Sureshkumar Gaddi–Senior Technical Assistant, B.Tech ECE, 3 Years of Experience

## **Course Coordinator**

### **Suresh kumar Gaddi**

Senior Technical Assistant

7013705343(Mobile), 9490686278(WhatsApp), 0495 2287266(O)

Email:sureshkumar@calicut.nielit.in

## **Terms and Conditions**

1. *In case any registered candidate could not attend the offline/ online session due to technical issue at their side there will not be any refund of the course fee and the sessions will not be repeated.*
2. *In case the offline/ online course is cancelled /postponed due to some technical issue at NIELIT side and new date is not convenient to the candidate, our liability is limited to the refund of the course fee and NIELIT shall not be responsible for any consequential damages*

For more details about our institution and facilities visit us

Website: <http://nielit.gov.in/calicut>

Twitter: [https://twitter.com/CAL\\_NIELIT](https://twitter.com/CAL_NIELIT)

Facebook: <https://www.facebook.com/CAL.NIELIT>

[Click Here to Register](#)

Autonomous Scientific Society of  
Ministry of Electronics & Information Technology,  
Govt. of India



**NIELIT Calicut**

Post Box No. 5, P. O. NIT Campus,  
CALICUT – 673601, Kerala

Reach Us on WhatsApp 9446711666

Tel. : 0495-2287266

Mob. : 9446011266

Email : [trng@calicut.nielit.in](mailto:trng@calicut.nielit.in)

URL : <http://nielit.gov.in/calicut>