



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 & IoT SYSTEMS

4<sup>th</sup>Oct- 29<sup>th</sup> October 2021  
4 Weeks (2hrs daily)

### Course Description

This is a course on Embedded&IoTSystems which provides understanding of Embedded Systems, Architecture of Embedded System,IoT Overview and Hardware Platforms, ARM Architecture, Basic C Programming, Experiments using ARM Cortex Microcontroller, Arduino UNO Development Board, Node MCU, IoTCloud Platforms. The Course is planned with instructor led Offline/live sessions of lectures and demonstrations

[Click Here to Register](#)

## Who can attend?

Anyone who is interested in learning Embedded System Design & IoT designed for

- *Preferably Students pursuing Engineering.*
- *Students can learn at their own pace and timings, during the course period.*

## Course Content

S.No.	Topics
1	Introduction to Embedded Systems
2	Architecture of Embedded Systems
3.	IoT overview and Hardware Platforms
4.	ARM Architecture and Experiments with ARM Cortex Microcontroller
5.	Embedded Trends and Projects
6.	Introduction to Arduino IDE, Communication, Proto typing ,sensors and actuators
7.	GPIO Programming in Arduino
8.	Experiments with Sensors Interfacing in Arduino
9.	Interfacing With smart Phone Application
10.	Experiments Using NODE MCU.
11.	IoT Cloud Platforms.
12.	Mini Project Discussion

## Fee and important dates

<b>Fee</b>	Rs. 2000/- (Including GST)
<b>Last date for registration &amp; payment</b>	4 <sup>th</sup> Oct 2021

## Certificate

E-Certificate will be issued to all candidates who complete the sessions and Assignment.

## 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.Tech ECE (ES), 20 Years of Experience
2. Rajesh M – Scientist/Engineer ‘D’, M.Tech ECE, 15 Years of Experience
3. Manoj N– Senior Technical Officer, Diploma in Electronics, 24 Years of Experience
4. SureshkumarGaddi–Senior Technical Assistant, B.Tech ECE, 4 Years of Experience

## Course Coordinator

### **Suresh Kumar Gaddi**

Senior Technical Assistant

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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>

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



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