



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

Internship Training Prospectus

ISO 9001-2015 Certified

EMBEDDED Systems &IoT

26th May 2025- 20th June 2025
(2-Weeks Online + 2-Weeks Offline)

Course Description

This is a course on Embedded&IoT Systems 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, lab sessions using online web simulators, Node MCU, Android app development, 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 &IoT design for

- Preferably Students pursuing Polytechnic, Engineering,

Course Content

Sno	Topics
1	Introduction & Architecture of Embedded Systems
2	Embedded C Programming
3.	ARM Architecture and Experiments with ARM Cortex Microcontroller
4.	Embedded Trends
5.	Introduction to Arduino IDE, Communication, Prototyping ,sensors and actuators
6.	GPIO Programming in Arduino
7.	Experiments with Sensors Interfacing in Arduino
8.	Lab sessions using online web simulators
9.	Android Application development using drag and drop widgets
10.	Experiments Using IoT platform.
11.	IoT overview and Hardware Platforms
12.	IoT Cloud Platforms.
13.	Mini Project Discussion

Fee and important dates

Fee	Rs. 3500/- (<i>Including GST</i>)
Last date for registration &payment	22 nd May 2025 till 9:00 AM
Sharing of Link/passwords &other details	24 th May 2025 by 06:00 PM
Course registration Link	https://www.calicut.nielit.in/OnlineCourseRegistration.aspx

Certificate

e-Certificate of participation will be mailed to the registered email ID after completion of the course.

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. Rajesh M – Scientist/Engineer ‘E’, M.Tech ECE (ES), 22 Years of Experience
2. Akula Sri Rama Pavan – Scientist-B, B.Tech(ECE), 9 Years of Experience
3. Manoj N– Senior Technical Officer, Diploma in Electronics, 26 Years of Experience

Course Coordinator

Akula Sri Rama Pavan

Scientist-B

8904310403(Whatsapp)

Email:pavan@calicut.nielit.in

Terms and Conditions :

1. In case any registered candidate could not attend the 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 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.
3. Passing Exit test is mandatory for awarding ‘participation’ certificate.

For more details about our institution and facilities visit us

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

Twitter: https://twitter.com/CAL_NIELIT

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

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



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