ISO 9001-2015

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

**Ministry of Electronics and
Information Technology**
Government of India

Internship on Emerging Technologies

Embedded Systems, Internet of Things (IoT), Drone Technology, Artificial Intelligence (AI) and Electric Vehicle (EV) Technology

Mode of Conduction

4-Weeks Offline at Nielit Calicut

Course Description

This four-week internship program is designed to provide B.Tech students with a strong foundation in Embedded Systems and exposure to emerging technology domains including Internet of Things (IoT), Drone Technology, Artificial Intelligence (AI), and Electric Vehicle (EV) Technology. The program bridges the gap between academic learning and industry-oriented skills through a combination of conceptual sessions and intensive hands-on laboratory training.

Participants will learn the fundamentals of embedded system design including microcontrollers, sensors, actuators, and interfacing techniques. Practical exposure will be provided in IoT system development where students will design connected systems capable of collecting, processing and transmitting data.

The internship also introduces concepts in drone technology focusing on embedded control systems, sensor integration, and communication mechanisms used in unmanned aerial vehicles. In addition, introductory exposure to Artificial Intelligence applications such as data processing, automation concepts and intelligent decision-making will be provided.

Participants will also explore Electric Vehicle (EV) technology including embedded control in EV systems, battery management fundamentals and smart mobility technologies.

The program is delivered through instructor-led offline sessions consisting of lectures, demonstrations, guided laboratory exercises and hands-on practice using development boards, sensors and IoT kits.

Upon completion of the program, participants will gain foundational programming skills, system design experience and practical exposure to modern embedded technologies,

preparing them for higher studies, research internships and entry-level roles in embedded systems, IoT and smart mobility domains.

Eligibility

B.E / B.Tech students (Electrical / Electronics / Instrumentation or related branches) – Final year or Pre-final year.

*B. Tech Course completed students are not eligible for the Internship.

Seats Available

Batch1- 30

Batch2- 60

Selection based on First-Come First-Served basis

Important Dates

Batch	Starting Date	Ending Date
Batch 1	11 May 2026	05 June 2026
Batch 2	08 June 2026	03 July 2026

Internship Modules – Batch 1

Module	Week	Start Date	End Date
Embedded Systems & IoT	Week 1	11 May 2026	15 May 2026
Drone Technology	Week 2	18 May 2026	22 May 2026
Artificial Intelligence	Week 3	25 May 2026	29 May 2026
Electric Vehicle Technology	Week 4	01 June 2026	05 June 2026

Internship Modules – Batch 2

Module	Week	Start Date	End Date
Embedded Systems & IoT	Week 1	08 June 2026	12 June 2026
Drone Technology	Week 2	15 June 2026	19 June 2026
Artificial	Week 3	22 June 2026	26 June 2026

Intelligence			
Electric Vehicle Technology	Week 4	29 June 2026	03 July 2026

Fee Structure

Category	Amount
Course Fee (Without Hostel)	₹ 5,000
Course Fee (With Hostel)	₹ 6,600
Canteen Charges	Approx. ₹ 4,500 (Payable at Canteen)

Coordinator

Overall Coordinator:

Manoj N
Email: manoj@calicut.nielit.in
Phone: 9446783170

Module Coordinators

Module	Coordinator	Email	Phone
Embedded Systems & IoT	Manoj N	manoj@calicut.nielit.in	9446783170
Drone Technology	Manoj N	manoj@calicut.nielit.in	9446783170
Artificial Intelligence	Prasoon Kumar KG	prasoon@calicut.nielit.in	9447305951
Electric Vehicle Technology	Manoj Kumar MK	manojkumar@calicut.nielit.in	9447433175

Certification

A digitally signed internship certificate will be issued to participants who successfully complete the internship program.

Terms and Conditions

- The course schedule does not include Saturdays, Sundays and declared holidays.
- The entire course fee must be paid before the commencement of the program.
- No refund will be provided if a registered candidate fails to attend the offline sessions.
- If the program is postponed or cancelled due to unforeseen circumstances from the institute's side, the course fee will be refunded if the revised schedule is not convenient for the participant.
- All participants must adhere to the rules and regulations of NIELIT Calicut during the internship.