<u>COURSE PROSPECTUS</u>

Name of the Group: *Embedded Systems Group*
Name of the Course: *Internship on Embedded Systems*
Course Code: *ESIN-103*
Starting Date: *15 July 2024*
Duration: *ESIN-103(2 Weeks)*
Course Coordinator: *Manoj.N,9446783170*
No. of Seats: *20*

Preamble: *Preamble for the Course*

- *This internship program is designed to provide participants with a comprehensive understanding of Embedded systems technologies. The course combines theoretical knowledge with hands-on practical experience to equip participants with the skills required in these rapidly evolving fields. The Course is planned with instructor led Offline sessions of lectures, demonstrations and hands on sessions with development boards and kits.*

Objective of the Course: *Objective of the Course*

- *Understand the fundamental principles of embedded systems, including hardware components and software development.*
- *Gain hands-on experience in programming embedded systems, interfacing sensors and actuators, and developing applications.*
- *Acquire industry-relevant skills and knowledge of best practices in embedded systems development.*

Outcome of the Course: *Outcome of the Course*

- *Understand the fundamental principles of embedded systems, including hardware components and software development.*
- *Gain hands-on experience in programming embedded systems, interfacing sensors and actuators, and developing applications.*
- *Acquire industry-relevant skills and knowledge of best practices in embedded systems development.*

Expected Job Roles: *NA*

Course Structure:

Sl. No	Module Title	Duration (Hours)		
		Theory	**Lab**	**Total**
1	*Embedded C Programing*	*10*	*15*	*25*
2	*ARM Cortex Microcontrollers*	*10*	*15*	*25*

Other Contents

I. **Course Fees**:

Rs. *2500/-* (Inclusive of GST)

Course Code: Internship on Embedded Systems and IoT					
Module & Course Code		Module Name	Duration (Weeks)	Fees (for Other candidates)	Payable by SC/ST candidates admitted under reservation quota
Internship on Embedded Systems.	*ESIN-103*	*ESIN-103*	*2*	*Rs.2500(Inclusive of GST)*	*Rs.2500(Inclusive of GST)*

II. **Refund of Fee:**

If the student does not join for the registered course / any of the registered courses, fee paid shall be forfeited.

However above the registration fee shall be refunded on few special cases as given below

➤ Course postponed and new date is not convenient for the student
➤ Course cancelled in advance, well before the admission date

III. **Course Fee Structure**:

Students can pay the full fees in advance as mentioned below

Fees	*Amount	Due Date (on or before)
ESIN-103	*Rs.2500(Inclusive of GST)*	12th July 2024

*Above fees is inclusive of GST, with any revision by Government shall be applicable at the time of payment.

IV. Eligibility:

B.Tech/B.E/ Diploma (Electrical Electronics / Instrumentation) or relevant field (Qualified or pursing)

V. Number of Seats : *20*

VI. Selection of candidates : *Online portal registration , first come first serve basis*

VII. Reporting Date : *15ᵗʰ July 2024 9.30AM*

VIII. Important Dates (if applicable) : L*ast date for application and payment 12ᵗʰ July 2024*

IX. Course Timings : *10AM to 4PM*

General Terms & Conditions - Applicable to all courses

X. How to Apply :
Students are advised to apply online @http://nielit.gov.in/content/online-registration. Payment towards registration fee of Rs.2500/- (Inclusive of GST) may be paid through online payment gateway *available in the Registration page*

The Institute will not be responsible for any mistakes done by either the bank concerned or by the depositor while remitting the amount into our account. It is advised to keep the payment reference number as proof and produced as and when required.

XI. Admission Procedure:
Students who are registered, required to report to the Institute on 15ᵗʰ July 2024 at 9:30 hrs along with the following

➢ Original College ID card / bonafide certificate from the institute for the ongoing students.
➢ Copy of course completion/provisional/UG/PG certificate for course completed students.

XII. Location and how to reach:
NIELIT Calicut is located very close to NIT campus and is about 22Kms from the Calicut (Kozhikode) city. A number of buses (Buses to NIT via Kunnamangalam) are available from "Palayam Bus Stand and KSRTC Bus Stand". The bus stop at our Institute is called "Panthrand" and is one stop before NIT. The bus fare is around Rs.20*/-* from Calicut City to NIELIT.

Calicut (Kozhikode) is well connected by Rail, Road and Air form different parts of the country. The maximum and minimum temperatures range between 35^{0}C and 20ºC.

XIII. Course enquiries:

Students can enquire about the various courses either on telephone or by personal contact between 9.15 A.M. to 5.15 P.M. (Lunch time 1.00 pm to 1.30 pm) Monday to Friday.

XIV. a. Hostel facilities:

Hostel accommodation is available for boys and girls on monthly or daily chargeable basis. The hostel fee varies from Rs.1,600 /- to Rs.4,800/- per month depending on the type of accommodation. However, students are required to pay the hostel fees for the entire duration of the course for which they are seeking admission at the time of joining the course itself. It is mandatory that all who stays in the hostel to avail mess facility.

b. Accommodation facility prior to admission date

Accommodation shall be provided on the written recommendations of the concerned Course Coordinator /Training Officer. Student should forward a written request (through email) to the course coordinator well in advance.

Such accommodation will be temporary and for a maximum period of 2 days only.

c. Daily rent for hostel accommodation prior to admission shall be Rs.100/-. An additional amount of Rs.500/- shall be collected towards caution deposit which will be adjusted in the hostel fee on regularization of hostel admission. Payment for such   stay shall be made online in advance similar to registration fee payment. All such   allotments shall be regularized on the next working day by submitting the Hostel   application in the prescribed form.

Entry in hostel prior to formal admission will be permitted strictly on production of photo identity cards like Aadhaar, Driving License, Voters id etc. issued by Government agencies

XV. Boarding facilities :

Canteen & Mess facility is available for both boys & girls, students, those who avail mess facility should pay monthly mess fee @Rs.165/- per day should be paid as mess advance to the Canteen Contractor.

An amount of Rs.3,000/- should be paid as caution deposit at the time of joining the hostel which will be refunded/adjusted at the end of the course.