

COURSE PROSPECTUS

Name of the Group: *Embedded System Group*

Name of the Course: *Certificate Course on Cyber Physical Systems & IoT*

Course Code: *ED504*

Starting Date: *18th November 2019*

Duration: *3 Weeks (105 Hours)*

Course Coordinator: *Shoukath Cherukat, 9447423306*

Objective

The objective of the course is to provide the participants with an understanding of Cyber Physical Systems and Internet of Things (IoT). All IoT devices are Cyber Physical Systems, but CPSs are not necessarily connected to the Internet and thus, not necessarily IoT devices. This module focuses on Overview of Cyber Physical Systems and details more on IoT.

Outcome of the Course: After successful completion of the course, the participants shall be able to:

- Apply the concepts of CPS and IoT to develop application
- Implement IoT applications using proper hardware and software platforms
- Develop IoT Applications with open source platforms

Course Structure: *Certificate Course with duration of 3 Weeks.*

Other Contents

a. **Course Fees:**

General Candidates: Course fee is Rs. 12,600/- + GST @ actuals (18 % + Kerala Flood Cess 1%).

SC/ST Candidates: Tuition Fees are waived for SC/ST students admitted under SCSP/TSP. However they are required to remit an amount of **Rs. 1,500/- as Advance caution/security deposit**. This amount will be considered as caution/security deposit and will be refunded after successful completion of the course. If the student fails to complete the course successfully this amount along with any other caution/security deposits by the student will be forfeited.

Modular wise Course Fee: *Not Applicable for this course*

- b. **Registration Fee:** An amount of Rs.1000/- (including GST)(nonrefundable) should be paid at the time of registering for the course.

This fee shall be considered as part of course fee, if the student joins the course. If a student register and pay for more than one course and join for any one course, all such amount will be adjusted against the course fee payable.

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

For SC/ST candidates, the registration fee is Rs.500/- and will be considered as part of caution/security deposit and will be refunded after successful completion of the course. If the candidate does not join or fails to complete the course the amount will 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

- c. **Course Fee Installment Structure:** *Not applicable for this course.*

- d. Eligibility:

i. *3 year Diploma in Electronics or B.E./B.Tech or M.E./M.Tech in Electronics/ Electronics & Communication/ Electrical/ Electrical and Electronics/ Instrumentation/ Biomedical /Computer Science/ Information Technology or MSc in Electronics/ Instrumentation/ Computer Science/Information Technology.*

ii. *Candidates who have appeared in the qualifying examination and awaiting results may also apply.*

- e. Number of Seats : 15

- f. Selection of candidates :

- i. *Selection of candidates will be based on their marks in the qualifying examination subject to eligibility and availability of seats.*
- ii. *Knowledge in C Programming and Basic Electronics is a pre-requisite of this course.*
- iii. *The Provisionally Selected Candidates will be intimated on 14/11/2019 by email only.*

- g. Test/Interview: *Not applicable for this course.*

- h. Counseling/Admission: *All candidates provisionally selected will have to be present personally for counseling and admission on 18th November 2019 with all the necessary documents (originals and attested copies).*
- i. Important Dates (if applicable) :
- | | |
|--------------------------------------|--------------------------------|
| Intimation of selection: | 14 th November 2019 |
| Admission & Commencement of Classes: | 18 th November 2019 |
- j. Course Timings: *This program is a practical oriented one and hence there shall be more lab than theory classes. The classes and labs are from 9.30 am to 12.30 pm and 1.30 pm to 4.30 pm Monday to Friday.*
- k. Placement: *Not applicable for this course.*
- l. Lab Facilities: <http://nielit.gov.in/calicut/content/embedded-system-group>
- m. Course Contents : [Syllabus](#)

[Click here for General Terms and Conditions – Applicable to all courses](#)