



Certificate Programme on Internet of Things (IoT) with Swadeshi Processors (VEGA Processors)



Date: 2nd August 2021

Course Description:

This is an online, instructor – led certificate program which provides a thorough knowledge about the Vega Processors, its programming and interfacing for internet of things (IoT) applications. Swadeshi processor are **Made in India** processors which will be the future processors used across world for the Internet of Things applications. This course will enhance your skills for using these swadeshi processor made by CDAC Trivandrum for the IoT Applications.

Program Objectives

To learn, Practice the programming on Vega Processor for Internet of Things Applications. To get exposure in industry standard methodologies from the makers of the processors.

Who can attend?

Students of Engineering (UG & PG) & MSc (Electronics), PhD scholars, faculty members and professionals from Industry/Startups.

Duration

- Proposed length of the training: 5 Days. **10 Hours lecture 15 Hours practicals.**

Course Fee	
INR 1500/- For Students	REGISTER NOW
INR 3,000/- For Faculty	
INR 5,000/- For Industry/Corporate	
Last date for payment and confirmation: 28th July 2021	

Payment Guidelines: -

Online fund transfer can be made via your Internet Banking, Google Pay to the following account and proof of the same has to be uploaded during the registration.

Account details:

Name of the Institute: National Institute of Electronics and Information Technology, Calicut.

Account Holder: Director NIELIT Calicut

Account No: 10401158037 Bank Name: SBI, NIT Chathamangalam

IFSC No: SBIN0002207 MICR Code: 673002012

For any queries WhatsApp to 9447769756, Please don't call, we will reply to you at the earliest.

Delivery Mode: Online. Live classes followed by online assignments over LMS. Students should have Laptop/PC with high speed internet connectivity.

Tentative Schedule

Duration	1 weeks
Tentative Timings	10 am to 12.00 noon (Theory) Lab/Assignments can be submitted online on Learning management Systems (Any Time)
Tentative dates	2 nd August 2021 to 6 th August 2021

Syllabus

Day	Session -1 10.00 AM – 11.30 PM	Session 2 11.45 – 1.15 PM	Remote Lab Duration : 2 Hours
Mon	Overview of RISC V & Swadeshi Processor Architecture (CDAC)	IoT overview & Hardware Platform (NIELIT)	Remote Lab Familiarisation (NIELIT)
Tue	Overview of Vega Peripherals (GPIO, UART) (NIELIT)	Embedded Programming with Vega (NIELIT)	Remote Lab (NIELIT)
Wed	Interfacing Sensors & Actuators with Vega (ADC, PWM, SPI, I2C) CDAC		Remote Lab (NIELIT)
Thu	Overview Wireless Connectivity & Interfacing with Vega (NIELIT)		Remote Lab (NIELIT)
Fri	Mini Project (NIELIT & CDAC)		Online Assessment (NIELIT)

Certificate: e-Certificate will be mailed to the registered email address after completion of the course.

Course Materials

Lectures Notes will be made available in the LMS

Coordinators

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