



SKILL DEVELOPMENT COURSE

on

Internet of Things (IoT) (for Students and Working Professionals)

at

CSIR-Central Electronics Engineering Research Institute (CSIR-CEERI)

(A constituent laboratory of Council of Scientific & Industrial Research (CSIR), New Delhi)

Department of Scientific & Industrial Research (DSIR) Ministry of Science and Technology, Govt. of India

Pilani - 333031 (Rajasthan), India



10th June, 2019 to 19th July, 2019

About CSIR-CEERI

CSIR-CEERI (CSIR-Central Electronics Engineering Research Institute), is devoted to R&D, technology-development and academic support (includes Skill Development training/HR) in the field of electronics, ICT and related areas for the benefit of the society.

FOR THE FUTURE INDUSTRY, INTERNET OF THINGS (IoT) TECHNOLOGY IS KEY to keep the services interconnected and working well.

Expected Job Roles

Embedded systems engineers, Field application engineers, embedded system technician - Trouble shooting of IoT based electronic systems/products

Entrepreneur - Development of small electronic gadgets based on IoT applications

Entrepreneur - Development of IoT based systems for smart cities, Intelligent transport systems, Intelligent building systems and environment monitoring & controlling, etc.

Learning Outcomes

- Separate the IoT hype from the reality
- Programming of Raspberry Pi 3, MSP430 + CC2520 and Arduino Mega 2560
- Peripheral interfacing to Raspberry Pi3 and MSP430
- Trouble shooting Raspberry Pi3 and MSP430 based systems
- LAMP programming techniques
- Evaluate networking technologies for application within IoT projects
- Trace the relationship between IoT, cloud services and software agents
- Apply effective techniques to create IoT based projects

Lab Trainers and Faculty

- Experts in the field
- Relevant long term R&D/Industry Experienced
- Executed high level R&D projects
- Expert facilitators and training professionals

Course Coordinator

Dr. Kota Solomon Raju

Senior Principal Scientist & Head SDP
CSIR-CEERI, Pilani (Rajasthan) - 333031, India

Mobile: +91-9460842188

Website: www.ceeri.res.in Email: iot@ceeri.res.in

Objective of the Course

To train participants how to design and program the IoT based system with practical hardware (Raspberry Pi3 and MSP430) board using Linux operating system with server connectivity. Interfacing of external peripherals to Raspberry Pi3 and MSP430 board and networking of IoT devices such as Edge and Gateway devices to the server /cloud along with troubleshooting.

Course Highlights

- Highly focused and in-depth conceptual-oriented training from the experts - including relevant updates from related research teams
- Scientific research enabled training to maximize competency development
- Lab Trainers and Expert faculty with relevant R&D and academic experience, and highly accomplished training professionals
- Training outcomes and competency development designed to meet industry and academic specific requirements

Salient Features

- 55% to 60% Practical and 45% to 40% Theory Session as per the course curriculum
- Tutorials (personal attention) & Lectures, assisted with models and multimedia aids
- Interactive Sessions on Real-time problems and participant may discuss their own application
- Hands-on practical exposure
- Invited Lectures from Professionals/ Industrial experts

Important Details

Last Date for Registration	: 07.06.2019
Last Date for Fee deposit	: 10.06.2019
Date of commencement	: 10.06.2019
Duration	: 200 Hours (6 Weeks)
June 10, 2019 to July 19, 2019 (Monday to Friday 10 AM to 5 PM)	
Qualification	: Industry Professionals/Faculties for Career enhancement & BE/B.Tech/Diploma holders/ BE/B.Tech 6 th semester students are also eligible)
Course Fee	: Rs. 25,000/-
Payment Details	: Online or Demand Draft in favour of "Director, CEERI, Pilani" payable at Pilani
A/C Number	: 61033385318
Bank	: State Bank of India
Branch	: CEERI Campus, Pilani
IFSC	: SBIN00031398

No. Of Seats : 40 (First Come First basis)

Venue

CSIR-CEERI,
Pilani - 333031, Rajasthan

Course Director

Director, CSIR-CEERI,
Pilani - 333031, Rajasthan

NOTE

Interested Persons should register by sending the duly filled in application form along with the details of payment of fee on or before June 7, 2019.