



# SKILL DEVELOPMENT COURSE

on

## Internet of Things (IoT)

(for Students & Working Professionals)

at

CSIR-CEERI Chennai Centre

27th May 2019 to

28th June 2019



CSIR-CEERI

in association with



SSN COLLEGE OF ENGINEERING CHENNAI

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  
Pitani-333031 (Raj), India

### About CSIR-CEERI, SSN & Course

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.

Sri Sivasubramaniya Nadar (SSN) College of Engineering is a premier institution in Chennai and achieved excellence in advanced research in information and communication technology.

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 Pi3, 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

### Contact at Chennai Centre

#### Dr. A. Gopal

Chief Scientist & Scientist in-charge  
CSIR-CEERI Chennai Centre  
CSIR Madras Complex  
Taramani, Chennai - 600 113.  
Phone: 044-2254 1923/4580 / 4585/4586  
Website : www.csircmc.res.in  
E-mail : sicceeri@csircmc.res.in

### Course Coordinator

#### Dr. Kota Solomon Raju

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### 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	: 24.05.2019
Last Date for Fee deposit	: 27.05.2019
Date of commencement	: 27.05.2019
Duration	: 160 hours (5 weeks)
May 27, 2019 to June 28, 2019 (Monday to Friday 10 AM to 5 PM)	
Qualification	: Industry Professionals/Faculties for Career enhancement & BE/B.Tech/Diploma holders (BE/B.Tech 6th semester students are also eligible)
Course Fee	: Rs. 20,000/-
Payment Details	: Online or Demand Draft in favour of "CEERI Chennai" payable at Chennai
A/C Number	: 30267719891
Bank	: State Bank of India
Branch	: Taramani
IFSC	: SBI00010673

**No. of Seats : 40 (First Come First basis)**

### Venue

CSIR-CEERI Chennai Centre  
CSIR Madras Complex  
Taramani, Chennai - 600 113.

### Course Director

Director, CSIR-CEERI Pitani,  
Rajasthan.

**NOTE : Interested Person should register by sending the duly filled application form along with the details of payment of fee on or before May 24th 2019.**