



## 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 Pi2
- Peripheral interfacing to Raspberry Pi2
- Trouble shooting Raspberry Pi2 based systems
- Linux /Android 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

## Salient Features

- 50% Practical and 50% Theory Session as per the course curriculum
- Tutorials (personal attention) & Lectures, assisted with models and multimedia aids
- Interactive Sessions
- Hands-on practical exposure
- Invited Lectures from Professionals/ Industrial experts

## Objective of the Course

- To train participants how to design and program the IoT based system with practical hardware (Raspberry Pi 2/3) board using Linux /Android operating system with cloud / server connectivity. Interfacing of external peripherals to Raspberry Pi 2/3 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 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 R&D experienced, and highly accomplished training professionals
- Training outcomes and competency development designed to meet industry and academic specific requirements

## 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

## Application Form

1. Name: \_\_\_\_\_  
2. Gender: M F  
3. Qualification: \_\_\_\_\_  
4. Address for Communication: \_\_\_\_\_  
\_\_\_\_\_

5. E-mail: \_\_\_\_\_

6. Phone: \_\_\_\_\_

7. Mobile: \_\_\_\_\_

8. Accommodation required? Yes/ No

9. Payment Details: \_\_\_\_\_

DD no: \_\_\_\_\_ Date: \_\_\_\_\_

UTR (for online transfer) no: \_\_\_\_\_

Bank: \_\_\_\_\_ Amount: \_\_\_\_\_

Place: \_\_\_\_\_ Signature

Date: \_\_\_\_\_

*For Sponsored Candidate Only*

10. Designation/Department: \_\_\_\_\_

11. Name of the Institution: \_\_\_\_\_

12. Teaching / Industry experience: \_\_\_\_\_

Declaration

This is to certify that Dr./Mr./Ms. \_\_\_\_\_

\_\_\_\_\_ is an employee of our institution

and is sponsored to attend a six-week training programme to be conducted at CSIR-CEERI, commencing from January 16, 2017

Signature of the Head of the Institution  
(With office seal and date)