

CAMBRIDGE INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF  
ELECTRONICS AND COMMUNICATION ENGINEERING

**A Five Day  
Faculty Development Program On  
“Internet Of Things (IoT) And Python”**

**28<sup>th</sup> Jan 2019 to 1<sup>st</sup> Feb 2019**

**REGISTRATION FORM**

Name: \_\_\_\_\_

Department: \_\_\_\_\_

Institution: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Mobile No.: \_\_\_\_\_

Email ID: \_\_\_\_\_

Amount in INR : \_\_\_\_\_

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

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

Signature of the participate

Signature & Seal  
(Head of Institution)

**CHIEF PATRONS**

**Shri D. K. Mohan**  
Chairman, Cambridge Group of Institutions  
**Dr. Karisiddappa**, Vice Chancellor, VTU, Belagavi  
**Dr. H.N.Jagannatha Reddy**, Registrar, VTU, Belagavi  
**Dr. Satish Annigeri**, Registrar ( Eval), VTU, Belagavi

**PATRONS**

**Dr. D H Rao**  
Director, Cambridge Institute of Technology  
**Dr. Suresh L**  
Principal, Cambridge Institute of Technology  
**Dr.Shashikumar.D**  
Vice-Principal, Cambridge Institute of Technology  
**Dr. G. Indumathi**  
HOD, ECE, Cambridge Institute of Technology

**CONVENORS**

**Prof. Vaman B Gudi**, Registrar  
**Prof. M S Srinivas**, Department of ECE  
**Prof. Shivapanchakshari T G**, Department of ECE

**PROGRAM COORDINATION COMMITTEE**

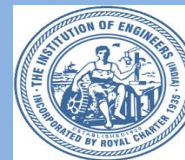
**Dr. Shivananda**                      **Prof. Girish H**  
**Prof. Ravi kumar M**                **Prof. Veerappa.S.C**  
**Prof.Mahendra B M**

**ORGANIZING COMMITTEE**

**Prof. Srinivasalu G**                **Dr.Shoba.S**  
**Dr. Basavaraju C**                **Prof.Hemanth Kumar G**  
**Prof. Shakila D**                    **Prof.Roopam M**  
**Prof. Raghunath Reddy**          **Prof.Jenita Subash**  
**Prof.Lokesh A M**                  **Prof.Shyam Sundar V**  
**Prof. Chaithra.S**                  **Prof.Soumya R**  
**Prof.Hariprasad T L**              **Prof.Harshavardhana G N**  
**Prof. Chaithanya G H**

**WHO CAN REGISTER**

Faculty, PG Students, Research Scholars,  
Academicians from all branches of Engineering.



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Sponsored by  
**Visvesvaraya Technological University  
Belagavi**  
&  
**The Institution of Engineers (India)**

Organized by  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING**  
(Accredited by NBA & NAAC)  
In Association with **EKLAKSHYA ACADEMY**, a premier  
company in the field of Embedded Systems, VLSI and IoT



**CAMBRIDGE INSTITUTE OF TECHNOLOGY**  
K R Puram, Bengaluru - 560 036  
Approved by AICTE, New Delhi | Permanently Affiliated to  
VTU Belagavi | Recognized by Govt. Of Karnataka |  
Accredited by NBA & NAAC |  
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## ABOUT THE INSTITUTE

Cambridge Institute of Technology affiliated to VTU Belgaum and approved by AICTE has completed its Decennial year of its establishment. The Institute accredited by NBA, NAAC and ISO certified offers 6 UG courses, 3 PG courses and 6 Research centers in addition to MBA and MCA. Cambridge is known for its excellent campus mentored by dedicated and highly qualified teaching fraternity. The Institute emphasizes on industry oriented practical learning pedagogy and is driven by research and project works.

## About the Department

Department of ECE is fully geared to cater the needs of industry and academics. Department with the current intake of 180 UG students, 18 PG (M.Tech in Digital Electronics) students and a Research Centre affiliated to VTU is equipped with excellent infrastructure in terms of laboratories, class rooms and equipments. There is an excellent blend of research, experience and high quality of teaching skills among faculty. Guiding of research scholars for the Ph.D programme, publishing papers in Referred journals and National/International conferences, workshops, FDP are regular activities of the department.

## Contact Us

### Prof. Girish H

Associate Professor, Department of ECE,  
Mobile: 9741122667  
Email: [workshop.ece@cambridge.edu.in](mailto:workshop.ece@cambridge.edu.in)

### Prof. Chaithra S

Assistant Professor, Department of ECE  
Mobile: 9916160268

## Objective of FDP

Key objectives of the IoT and Python training are to have the participants create an IoT Device that senses a real-life parameter and sends it to an IoT cloud platform. They will also be taught the essentials of Python for the purpose of IoT. This training will be done in following three parts.

- A. **Pre-classroom Preparation** Participants will be provided instructions to create the necessary set up in their systems.
- B. **Classroom Session** [4 days]: This session will cover key aspects of Internet of Things and equip participants with the skills to prototype an IoT system. The following aspects will be addressed
  - a. **Device level programming:** Participants will get to understand basic electrical components, NodeMCU hardware and software, sensors Extensive hands-on programming will be done on NodeMCU.
  - b. **Communication: Participants** will get an overview of network interfaces and communication protocols.
  - c. **IoT Cloud platforms:** Participants will get a overview of IoT cloud platforms and their roles played in IoT systems.
  - d. **Python for IoT:** Aspects of how to use Python for IoT will be covered.
- C. **Post-classroom projects:** To ensure that the participants reinforce their learning after the classroom session, participants will be provided projects that can be executed individually or as a group. A one day session will be held after the classroom session where participants can present on their projects for review. The facilitators will visit the college campus to review the project activities.
- D. **Outcome of FDP:** Complete Hands-on sessions with a blend of project, explore to current trend will motivate faculty to train students and handle in-house projects.

## Resource Person

In association with “EKLAKSHYA ACADEMY” **Ravi Subramanian** is a senior technology professional with experience of over 28 years with a major portion of his career at Texas Instruments Having contributed to embedded product development at TI and Bally Technologies, Ravi is now a part of a start-up and focuses on IoT product development. Ravi is the co-inventor of 3 patents issued and 1 pending at the US Patents and Trademarks office.

## Key Take A-ways

At the end of the three-part boot camp, it is expected that the participants will be fairly comfortable in creating IoT Device proof-of-concepts and get ready for the prototype development. They will be familiar with NodeMCU platforms, key sensors and chosen cloud platforms and Python for IoT purposes.

## REGISTRATON DETAILS

Registration Fee: Rs.1500/-. (Including the course materials, refreshments and lunch).

Please transfer the amount to the following account on or before **22-Jan-2018**. Send the scanned registration copy to [workshop.ece@cambridge.edu.in](mailto:workshop.ece@cambridge.edu.in) of the acknowledgement to the contact person mail id.

- Account No: 15610100027274
- IFSC: FDRL0001561
- MICR: 560049014
- Name: MS SHANNON TECHNICAL FORUM CITECH

**Venue:** DSP Lab, II Floor, Department of ECE

**Note:** i) Limited seats.

ii) Transportation and accommodation will be provided on request.