



I²IT Trust and Society's

PRALHAD P. CHHABRIA
RESEARCH CENTER

International Summer Training On “INTERNET OF THINGS (IoT)”

Embedded Systems, Communication Systems,
Sensors and actuators, FPGA & CPLD,
Robotics, Data Analytics

01st to 30th
May 2017

Duration One month

Eligibility

Students pursuing Undergraduate and Postgraduate Degrees in Science/ Engineering and Technology

Training in

Each participant will get hands-on training on the following topics:

- ▶ Exploring the hardware
- ▶ Logic implementation
- ▶ I/O configuration
- ▶ Design and interfacing of display systems
- ▶ Sensors and actuators interface
- ▶ Exploring Software tools (Embedded C, VHDL and Python)
- ▶ Data transfer techniques
- ▶ Instrumentation development
- ▶ IoT Platform
- ▶ Wireless Interfaces

Training outcome

- ▶ To develop the understanding of how to use the microcontrollers to interface with real world around us
- ▶ Participants will get the mini-laboratory with different sensors, microcontrollers, CPLD, programmers, interfacing IC's and the knowledge of utilizing it to the full potential
- ▶ Each module in the training is chosen to give an insight into IoT

Fundamentals/ Demonstrations

- ▶ Robotics, Intelligent Systems, Raspberry Pi and ARM
- ▶ Microelectronics & VLSI Design, Nanoelectronics
- ▶ Satellite Engineering
- ▶ FPGA Fundamentals
- ▶ Computer Networks

Personal mini-laboratory

IoT mini-laboratory includes required set of embedded controllers, electronic components, sensors, actuators (motors) and other necessary tools to create individual IoT system. Each and every participant can explore, experiment and innovate with the portable mini-laboratory. This Personal Mini-laboratory will be property of the participant.



Things to know

- ▶ 01st to 30th May
- ▶ First come first serve basis (Limited seats)
- ▶ All the participants have to stay on campus only
- ▶ Classes will be held day & night
- ▶ Weekly tours to historical places within Maharashtra

Fees \$ 850*

(Includes food, accomodation, mini-laboratory and site visits)

Interested candidates can register online at www.ppcrc.in/international

Bank details

Beneficiary Name: International Institute of Information Technology

Bank Account Number: 00072000006708

Name of the Bank: HDFC Bank Ltd

Branch: Bhandarkar Road

IFSC Code: HDFC0000007

Contact details

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* Inclusive of Tax



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