



FACULTY DEVELOPMENT PROGRAMME (FDP) on *Internet of Things (IoT) and Use Cases: Practical perspective*

(26 – 31 May 2018)

Organized by

E & ICT Academy, NIT Warangal

(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)

Preamble:

"Electronics & ICT Academy" was set up at NIT Warangal with financial assistance from MeitY, Gol. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nicobar Islands. This academy role is to offer faculty development programmes in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

Many new technology advances in the 21st century are happening concurrently at a very rapid pace, and they are truly touching the lives of human beings. The past couple of years have seen a heightened interest in the Internet of Things (IoT), transcending industry, academia and government. Market analysts predict that the number of connected devices will increase from 25 billion in 2015 to 50 billion in 2020. It is projected that GDP due to IoT market is going to be \$15 trillion which is larger than the GDP of India (\$6.6 Trillion) by 2030. In this context, IoT has become very important because it has been revolutionizing how we live, learn, work, do business and entertain ourselves. Considering the current thrust on Information Communication Technologies and Electronic Sector Design and Manufacturing by Government of India, and in view of the Internet of Things Policy of India, there is an immediate requirement for building capacity and expertise around Internet of Things.

Course Contents:

- Introduction to IoT, Basics of sensors and actuators
- Omni present inexpensive Espressif RF enabled Tensilica microcontrollers
- IoT protocols, sensing and actuation
- Implementation of IoT applications using Tensilica Microcontrollers
- Introduction to various cloud platforms
- Introduction to Raspberry Pi platform
- Implementation of IoT applications using Raspberry Pi
- Use cases are one of the most compelling ways technology providers can communicate their IoT vision and clearly share a holistic picture of IoT benefits. They also illustrate near-term IoT opportunities, validate target markets and quantify customer benefits. Hence, this workshop will further present
- Use-cases in water, agriculture, healthcare and wellness, transportation in Indian context, from different stakeholders to understand the importance of IoT technology Getting connected with various Cloud platforms and sending sensor information.

Faculty conducting this programme:

The programme will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

Registration Fee Particulars:

Faculty and Research Scholars	Rs. 2500/-
Faculty of SC/ST Category	Rs. 1250/- (SC/ ST participants should submit the copy of their caste certificate to claim the concession along with application form)
Industry Participants	Rs. 7500/-

SC/ST concession is only for faculty of mentioned states.
Research Scholars are not eligible for SC/ST concession.

The entire registration fee is to be collected in the form of DDs/online transfer using the following details:

DD Details	Online Transfer Details
Demand Draft in favor of "Director, NIT Warangal" payable at any bank in Warangal	Account Name: Electronics & ICT Academy NITW Account No: 62423775910 IFSC: SBIN0020149

Eligibility:

The programme is open to the teachers of Engineering Colleges, MCA Colleges and other allied with in India. Industry personnel working in the concerned /allied discipline can also attend.

Accommodation:

All the selected participants will be provided FREE boarding & lodging in the institute guest house and student hostels depending on the number of participants. No TA will be paid for the participants

How to apply:

A filled in form of application in the prescribed format duly signed and sponsored by appropriate authorities (along with demand draft) should reach the coordinator by speed-post. It is also mandatory to send scanned application form and demand draft through e-mail to iot2018.nitw@gmail.com, as selection will be intimated only through e-mail.

Selection Criteria:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (fifty). Additionally 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case a candidate is not selected, the DD will be sent back. Candidates will be issued certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date (Application and DD)	21/05/2018
Selection List by E- mail	22/05/2018
Duration	26 -31 May 2018

About NIT Warangal & Department:

National Institute of Technology, Warangal is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

The Department of ECE offers an undergraduate program in Electronics and Communication Engineering, and three Postgraduate programs in Electronic Instrumentation, VLSI system design and Advanced Communication Systems. The department of ECE has been offering two courses: (i) **IoT** and Usecases (ii) **Communications for Smart cities for PG and PhD students.**



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1. Name :
2. Designation :
3. Institution :
4. Email :
5. DD No: Bank: Date:
- Amount:
6. Address for Correspondence:

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “**Internet of Things (IoT) and Use Cases: Practical perspective**”, sponsored by Electronics & ICT Academy during 26 – 31 May 2018 at NIT Warangal.

Signature of Head of Institution
(with seal)

7. Educational Qualification:
8. Subjects taught so far:
9. No. of refresher courses/workshops attended:
10. Experience (in years):
Teaching: Research: Industry:
11. Accommodation required: YES / NO
12. Do you belong to SC/ST : YES / NO
(If yes, please specify and attach a copy of caste certificate to claim the concession)

Address for correspondence
Post your application form with DD to

Dr. B. Lakshmi,
Associate Professor,
Dept. of ECE,
National Institute of Technology
Warangal – 506004
Telangana, India

*E-mail the scanned copies of filled-in and duly signed application form along with DD to iot2018.nitw@gmail.com.
For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <https://nitw.ac.in/eict>*

*For more enquiries please contact:
Mobile: **9493436845***

Declaration

Or

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

Signature of the Applicant

Coordinators

Dr. B. Lakshmi
Associate Professor
Department of E.C.E
NIT Warangal

Ravi K. Kodali
Associate Professor
Department of E.C.E
NIT, Warangal