# FACULTY DEVELOPMENT PROGRAMME (FDP)
## ON
## INTERNET OF THINGS
### (22nd March – 1st April, 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, GoI. 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.

This faculty development programme (FDP) is devoted to addressing the need to enhance the knowledge about the latest technologies pertaining to Internet of Things.

### Major Course Contents:

- **Overview of IoT and its roadmap, Opportunities, Applications & Challenges in implementing IoT Solutions.**
- **CC3200 Platform, Value Line Architecture, Features and Peripherals.**
- **Connectivity Solutions using CC3200 Wi-Fi – Accessing HTML Page from HTTP Web Server.WLAN connection in Access Point Mode & Station Mode and Introduction to Energia IDE.**
- **Working with: Serial Interface, Wireless interface (RF), multiple peripherals as a system .Creation of own Web Server and Web page.Exercise on web server with different web pages to control the Hardware.**
- **Working with MQTT protocol and pushing the sensor data to the IBM cloud.Configuring MQTT client and server using web browser and Android APP.**
- **Data acquisition and control using the cloud server with the user interface as Mobile APP and web browser. Working with eclipse.org cloud server.**
- **Getting weather information from cloud server using CC3200Wi-Fi.**
- **Working with Temboo and Yahoo cloud server .Getting Time information from cloud server using CC3200 Wi-Fi.**
- **Sending Email from the Hardware CC3200 using Google mail cloud server.**
- **Sending SMS alerts using Nexmo and Twilio cloud services.**
- **Getting connected with Thing speak Cloud platform and sending sensor information.**
  - **Getting connected with AT&T Cloud platform and sending sensor information.**
- **Updating real time user location to AT&T cloud platform with map visualization.**
- **Sensor data acquisition using PubNub cloud server.**
- **Dash board creation by integrating PubNub and Freeboard cloud services.**

### 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 from Telangana, Andhra Pradesh, Karnataka, Puducherry, Andaman and Nicobar Islands, Goa | Rs. 4000/- |
|---|---|
| Faculty of SC/ST Category from Telangana, Andhra Pradesh, Karnataka, Puducherry, Andaman and Nicobar Islands, Goa | Rs. 2000/- (SC/ ST participants should submit the copy of their caste certificate to claim the concession along with application form) |
| Industry Participants | Rs. 12000/- |
| Participants from other states | Rs. 12500/- |

**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<br>Account No: 62423775910<br>IFSC: SBIN0020149 |

### Eligibility:

The programme is open to the teachers of Engineering Colleges, MCA Colleges and other allied disciplines in Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry, Andaman and Nicobar Islands. 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. 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 ravikumar@nitw.ac.in and drrajunitw@gmail.com as selection will be intimated only through 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 & DD) | 20/03/2018 |
|---|---|
| Selection List by E- mail | 21/03/2018 |
| Duration | 22nd March – 1st April 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 Computer Science and Engineering (CSE) offers B.Tech. course in CSE, M.Tech courses in CSE, Information Security (IS) and Master of Computer Applications (MCA). The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like Microsoft, IBM, Oracle, Infosys, TCS, EMC2, C-DAC, Motorola, NIC, Sun Micro Systems, SPSS and tie up with IISc in certain areas. Department conducts various sponsored programmes throughout the year.

**FACULTY DEVELOPMENT PROGRAMME (FDP)**
**ON**

**INTERNET OF THINGS**
**(22nd March – 1st April, 2018)**
**Organized by**
**E & ICT Academy, NIT Warangal**
**(Sponsored by Ministry of Electronics and Information Technology (MeitY), GOI)**

1. Name　　　　:

2. Designation　:

3. Institution　　:

4. Email　　　　:

5. DD No:　　　　Bank:　　　　Date:

　　Amount:

6.　Address for Correspondence:

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)

**Declaration**
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

**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"**, sponsored by Electronics & ICT Academy during 22$^{nd}$ March – 1$^{st}$ April, 2018 at NIT Warangal.

Signature of Head of Institution
(with seal)

**Address for correspondence**
*Post your application form with DD to*

**Dr. Raju Bhukya,**
**Assistant Professor,**
**Dept. of CSE,**
**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* drrajunitw@gmail.com, raju@nitw.ac.in

*For more details about Electronics & ICT Academy, NIT, Warangal, please visit:* https://nitw.ac.in/eict

*For more enquiries please contact:*
*Mobile:*
9700553922,8332969425

## Coordinators

**Dr. Raju Bhukya,**
**Assistant Professor**
**Dept. of Computer Science and Engineering**
**NIT Warangal**