



FACULTY DEVELOPMENT PROGRAMME (FDP) ON

INTERNET OF THINGS

26th – 31st Aug 2019

Organized by

E & ICT Academy, National Institute of Technology, Warangal

at

B V Raju Institute of Technology (UGC Autonomous), Narsapur

(Sponsored by Ministry of Electronics and Information Technology (MeitY), Govt. of India)



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 programme 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.

About the FDP:

This FDP aims at "Internet of Things" course provides practical foundation level training that enables immediate and effective participation in IoT and other projects. The extensive labs throughout provide many opportunities for students to apply these methods and tools to real-world IoT challenges. The course takes an "Open", or technology - neutral approach, and includes a final lab in which students address a IoT challenge by applying the concepts taught in the course in the context of the IoT.

Major Course Contents:

- Overview of IoT and its roadmap, Opportunities & 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 Thingspeak 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.

Faculty conducting this program:

The program 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 program. Speakers from industries are also expected to deliver as part of the course.

Eligibility: The program is open to the faculty of Engineering Colleges, MCA, MBA 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.

Organized at: The Programme will be organized at the Computer Science and Engineering department of BVRIT Narsapur by E & ICT Academy, NIT Warangal.

The whole course will be accomplished by academicians from premier institutions, Industry experts and Research advisors

Accommodation: No TA/DA will be paid to the participants. Working Lunch, Tea & Snacks and Dinner would be provided during the training at BVRIT campus. Boys/Girls Hostel Non-AC accommodation will be provided for outside participants.

Venue: Dept. of CSE, BVRIT Narsapur

Registration Fee Particulars:

Faculty and Research Scholars	Rs. 2500/-
Industry Participants	Rs. 7500/-

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

The fee is to be paid either in the form of DDs or online transfer using the following details:

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

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 suresh.dara@bvr.it.ac.in as selection will be intimated only through mail.

Selection Criteria:

Selection will be done based on *first-cum-first-serve* basis and the confirmed candidates will be notified immediately. Maximum number of participants will be 50 (fifty), additionally 10 participants from industry are allowed to participate. The list of selected participants will be notified through their personal *e-mail*. In case a candidate is not selected, the demand draft will be sent back. A test will be conducted at the end of the course. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date for submission of application	22.08.2019
Selection-list intimation/display on or before	24.08.2019

About NITW:

National Institute of Technology (formerly Regional Engineering College), 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 Institution imparting technical education of a very high standard leading to the B. Tech degrees in various branches of engineering and M. Tech. and Ph.D. programs in various specializations. All B. Tech and M. Tech programmes of NIT Warangal are NBA accredited.

About BVRIT Narsapur:

B V Raju Institute of Technology (BVRIT) was established by the eminent philanthropist (Late) Padmabhushan Dr. B.V. Raju under the aegis of Sri Vishnu Educational Society (SVES) in the year 1997. BVRIT was granted UGC - Autonomous Status from the year 2014. The Institute is also duly approved by the AICTE and the Government of Telangana State and is affiliated to JNTU, HYD. BVRIT is accredited by both NBA and NAAC with A Grade, New Delhi.

The Department of CSE at BVRIT was started in the year 1997 with an intake of 40. Subsequently the intake is enhanced, currently the intake is 360. The Department offers UG (B.Tech) and PG (M.Tech-CSE) degrees. The Department has state of the art infrastructure and computing equipment supported by high speed internet and wireless networks. The department has well qualified and experience faculty with Ph.D from NIT's and IITs.



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APPLICATION FORM

1. Name: _____

2. Designation: _____

3. Institution: _____

4. Email: _____

5. DD No: _____ Date: _____

Bank: _____

6. Address for Correspondence _____

7. Educational Qualifications with specialization: _____

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 clearly and attach a photocopy of the caste certificate)

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.

Place: _____

Date: _____

Signature of the applicant

Coordinators

Dr. Raju Bukya

Assistant Professor,

Dept. of CSE,

Electronics & ICT Academy

NATIONAL INSTITUTE OF TECHNOLOGY

Dr. Suresh Dara

Professor,

Department of CSE,

BVRIT Narsapur

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 **26th – 31st August 2019** at **BVRIT Narsapur.**

Place: _____

Date: _____

Signature of Head of Institution

(With seal)

Address for correspondence

Dr. Suresh Dara,

Coordinator,

FDP on Internet of Things

Department of Computer Science and Engineering

B V Raju Institute of Technology (UGC Autonomous),

Narsapur, Medak Dt, 502313

Telangana, India

Mail the scanned copies of filled-in and duly signed application form with DD to, suresh.dara@bvr.it.ac.in

For more information visit:

<http://nitw.ac.in/eict/>

<http://www.bvr.it.ac.in>

For any enquiry contact:

Mobile: 9492436990, 8247799139