



## Faculty Development Programme (FDP)

On

# Advanced Wireless Communications and Networks

11<sup>th</sup> December – 16<sup>th</sup> December 2017

Jointly Organized by

Electronics & ICT Academy, NIT WARANGAL

And

Department of Electronics and Communication and Engineering

Vignana Bharathi Institute of Technology, Hyderabad

(Sponsored by MeitY, Govt. of India.)



### 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.

### About the Workshop

The goal of the FDP is to unite the faculty researchers around the country to discuss latest trends & technology available for Wireless Communications and Networks to bring together world-class educators and thinkers to discuss all aspects of Wireless Communications and Networks. The workshop is intended to give the participants a focused view on the role played by Wireless Communications and Networks. The pedagogy included lectures, discussions and hands on training using NS2. The workshop will provide the opportunities to flourish the knowledge and pursue research in this area. The one week FDP will enable the participants to understand the simulation of various wireless communications and networks protocols and their analyses.

### Major Course Contents

- Introduction to Wireless Communications and Networks
- Research challenge in Wireless Networks
- MAC and Routing Protocols for WSN
- Wireless Sensor Networks applications
- Advanced Digital Communications
- Random Variables and channel estimation
- Software Define Radio
- Cognitive Radio and applications
- Software Define Networks
- Hands on Training on NS2 network simulator
- Hands on Training on MAC and Routing protocols in wireless networks
- Hands on Training on wireless sensor routing protocols

**Structure of the Course:** The theory for the topics specified in the, Course Contents is covered over 30 hours in classroom sessions and 10 hours lab sessions.

**Faculty conducting this programme:** The programme will be conducted by the faculty members from NIT Warangal. Academicians in the concerned field from Reputed Institutes are invited to deliver lectures in the programme. Speakers from industries are also expected to deliver as part of the course.

**Eligibility:** The programme is open to the teachers of engineering colleges from Electronics and communication Engineering, Electrical Engineering, and other allied disciplines in Telangana, Andhra Pradesh, Karnataka states and Goa. Industry personnel working in the concerned/allied discipline can also attend. Pre-Requisites: Basics knowledge of digital signal processing

**Accommodation:** No TA/DA will be paid to the participants. Accommodation is arranged for outstation participants at VBIT campus. Working Lunch, Tea & Snacks and Dinner would be provided during the training at VBIT campus.

**Venue:** Dept. of ECE, VBIT, Ghatkesar, Hyderabad.

### Registration Fee Particulars:

Faculty and Research Scholars from Telangana, Andhra Pradesh, Karnataka, Puducherry, Andaman and Nicobar Islands, Goa	Rs. 2500/-
Faculty of SC/ST Category from Telangana, Andhra Pradesh, Karnataka, Puducherry, Andaman and Nicobar Islands, Goa	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/-
Participants from other states	Rs. 8500/-

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

The participants need to send a crossed demand draft (DD) drawn in favor of "Director, NIT Warangal" and payable at SBH, NIT Warangal branch.

### On-line Mode:

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 [wsnubit@gmail.com](mailto:wsnubit@gmail.com) 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. The 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 in the institute web site [www.vbithyd.ac.in](http://www.vbithyd.ac.in) and also will be sent to their personal e-mail ids. 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 certificates on successful completion of the course along with grade. Reservations are followed for selecting candidates as per GOI norms.

### Important dates:

Last date for submission of application: 30.11.2017

Selection-list intimation/display before: 2.12.2017

### About NITW & VBIT:

**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.

**VBIT** approved by AICTE, affiliated to JNTUH was established in the year 2004 and is accredited by NAAC and NBA as College with Potential for Excellence Status. Being one of the most preferred colleges in T.S., VBIT is well known for its discipline, technical excellence, infrastructure, record student performance, research activities, etc.

# **APPLICATION FORM**

## **Electronics and ICT Academy** **Faculty Development Programme** **On**

### **Advanced Wireless Communications and Networks** **(11<sup>th</sup> December – 16<sup>th</sup> December 2017)**

1. Name:

#### **SPONSORSHIP CERTIFICATE**

2. Designation:

Dr./Mr./Ms. ....

3. Institution:

..... is an employee of our  
Institute/Organization and is hereby sponsored to  
participate in the FDP on **Wireless Sensor Networks and  
Applications**, sponsored by **Electronics & ICT Academy**  
during 11<sup>th</sup> to 16<sup>th</sup> December, 2017 at VBIT, Ghatkesar,  
Hyderabad.

4. Email:

5. DD No:

Bank:

Date:

6. Address for Correspondence

Place:

7. Educational Qualifications with specialization:

Date:

Signature of Head of Institution

8. Subjects taught so far:

(with seal)

9. No. of refresher courses/workshops attended:

#### **Address for correspondence**

**Post your application form with DD to**

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)**

**Dr. Sake Pothalaiah**

**Department of ECE,**

**Aushapur, Ghatkesar,**

**RR. District, Near HPCL,**

**Hyderabad, Telangana**

**501301**

#### **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

**Mail the scanned copies of filled-in and duly signed  
application form with DD to**

[jrk.nitw@nitw.ac.in](mailto:jrk.nitw@nitw.ac.in), [pothalaiahs@gmail.com](mailto:pothalaiahs@gmail.com)

**For more information visit:** <http://nitw.ac.in/eict/>

**For any enquiry contact:**

Mobile: 08332969363, 09966933132

Land line: 0870-2462444

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### **Coordinators**

**Dr. J.Ravi Kumar**

**Department of ECE,**

**Electronics & ICT Academy and**

**NATIONAL INSTITUTE OF TECHNOLOGY**

**WARANGAL – 506 004 (Telangana State)**

**Dr. Sake Pothalaiah**

**Department of ECE, VBIT**

**Hyderabad**