



# ELECTRONICS & ICT ACADEMY NATIONAL INSTITUTE OF TECHNOLOGY

WARANGAL – 506 004

DeitY, HRD division, Ministry of ICT, Govt. of India  
Sponsored Faculty Development Programme (FDP)  
On

## Wireless Communication Technologies

Jointly Organized by

Electronics & ICT Academy, NIT Warangal

&

Dept. of ECE, GVP College of Engineering (Autonomous), Visakhapatnam

(29<sup>th</sup> August to 03<sup>rd</sup> September, 2016)



### Preamble:

"Electronics & ICT Academy" is set up at NIT Warangal with financial assistance from DeitY, MCIT, Govt. of India. The role of academy is to offer faculty development programs in 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. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Pondicherry, Goa and Andaman & Nicobar Islands. Under the umbrella of this academy, a course namely "**Wireless Communication Technologies**" is proposed to be held at GVPCE, Visakhapatnam.

Wireless Communication is by measure, the fastest growing segment of the communication industry. Broadband wireless access is supporting rates in excess of 100 Mbps. Subsequently this led to the development of Next Generation Technologies through Code Division for Multiple Access (CDMA), Orthogonal Frequency Division Multiplexing (OFDM), Multiple Input Multiple Output (MIMO). This course will present an elaborate introduction to the principles and performance of these wireless technologies.

This FDP is devoted to fundamental theory, recent developments and applications addressing the related theoretical and practical aspects on **Wireless Communication Technologies**.

### Major Course Contents:

- Probability Theory, Random Variables
- Random Processes
- Wireless Standards
- Statistical Multipath Channel Models
- Performance of Digital Modulation over Wireless Channels
- Multiple Antennas and Space-Time Communications
- Multicarrier Modulation & Multiuser systems
- Hands on with MATLAB sessions on every module

### Faculty conducting this Programme:

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

**Eligibility:** The programme is open to the teachers of engineering colleges from Electronics and Communication Engineering and other allied disciplines in Andhra Pradesh, Telangana, Karnataka, Pondicherry, Goa and Andaman & Nicobar Islands. Research scholars and Industry personnel working in the concerned/allied discipline can also attend.

### Registration Fee Particulars:

**Faculty Members / Research Scholars** from  
mentioned states (Rs 2000/-)  
other states (Rs 8500/-)

**Industry participants** (Rs 6000/-)

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

### 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 [aruna\\_kumarip@gvpce.ac.in](mailto:aruna_kumarip@gvpce.ac.in) as selection will be intimated only through e-mail.

### Selection Criterion:

Selection will be done based on **first-cum-first-serve basis** and the confirmed candidates will be notified by email. 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 sites [www.nitw.ac.in](http://www.nitw.ac.in) and [www.gvpce.ac.in](http://www.gvpce.ac.in). In case a candidate is not selected, the demand draft will be returned. 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 awarded for the test. Reservations are followed for selecting candidates as per GOI norms. Spot registrations with cash payment may be considered as special case.

**Venue:** Gayatri Vidya Parishad College of Engineering (Autonomous), Madhurawada, Visakhapatnam.

### Important dates:

Last date for submission of application: 25/08/2016

Selection-list intimation/display before: 26/08/2016

### About NITW & GVPCE

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.

Gayatri Vidya Parishad College of Engineering (GVPCE) was established in 1996 by Gayatri Vidya Parishad a premier educational trust to promote technical education. The GVPCE offers seven UG and thirteen PG programmes in engineering. The college has been sanctioned "Autonomous" status by the UGC and conferred by the affiliating University, JNT University, Kakinada in 2009. All seven undergraduate courses are accredited by NBA of AICTE for 3 to 5 years. The college is Re-accredited by NAAC with A grade (with a score of 3.47/4.00).

## FORMAT OF APPLICATION

Electronics & ICT Academy  
Faculty Development Programme  
on

### Wireless communication Technologies (29<sup>th</sup> August to 03<sup>rd</sup> September, 2016)

1. Name :
2. Designation :
3. Institution :
4. Email:
5. DD No:                      Bank:                      Date:
6. Address for Correspondence:
7. Mobile No:
8. Educational Qualifications with specialization:
9. Subjects taught so far:
10. No. of refresher courses/workshops attended:
11. Experience (in  
years) Teaching :  
Research:  
Industry:
12. Accommodation required: YES / NO
13. Do you belong to SC/ST:      YES/NO

#### 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

## SPONSORSHIP CERTIFICATE

Dr/Mr/Ms. .... is an  
..... is an  
employee of our Institute/Organization and is hereby  
sponsored to participate in the FDP on 'Wireless  
Communication Technologies' sponsored by  
Electronics & ICT Academy during 29<sup>th</sup> August to 3<sup>rd</sup>  
September 2016 at Gayatri Vidya Parishad College of  
Engineering(A) , Madhurawada, Visakhapatnam.

Place:

Date:

Signature of Head of Institution  
(with seal)

#### Address for correspondence

(include workshop title on the envelope)

*Post your application form with DD to*

**Mrs. P. Aruna Kumari**  
**Assistant Professor, Dept. of ECE**  
**GVP Engineering College (A)**  
**Visakhapatnam – 48, A.P.**

*Mail the scanned copies of filled-in and duly signed  
application form with DD to*  
[aruna\\_kumarip@gvpce.ac.in](mailto:aruna_kumarip@gvpce.ac.in)

For any enquiry contact:  
Mobile: 9912434327

## Training Coordinators for FDP

### **Dr.V. V.Mani**

**Assistant Professor Dept. of ECE**  
**Electronics & ICT Academy**  
**National Institute of Technology**  
**Warangal (T.S.)**  
**Mobile:8332969365**

### **Mrs. P. Aruna Kumari**

**Assistant Professor, Dept. of ECE**  
**GVP Engineering College (A)**  
**Visakhapatnam – 48, A.P.**