



NATIONAL INSTITUTE OF TECHNOLOGY
WARANGAL – 506 004 (Telangana State)
DeitY, HRD division, Ministry of ICT, Govt. of India SPONSORED
Faculty Development Programme (FDP)
On
WIRELESS COMMUNICATION-HANDS ON

Organized by
Electronics & ICT Academy
and Department of Electronics and Communication and Engineering
(14th December– 23rd December 2015)

Preamble:

"Electronics & ICT Academy" is being set up at NIT Warangal with financial assistance from DeitY, MCIT, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka States and Pudicherry, Andaman & Nicobar islands and Lakshadweep UTs. 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.

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 3G 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 faculty development programme (FDP) is devoted to fundamental theory, recent developments and research outcomes addressing the related theoretical and practical aspects on Wireless Communication system design.

Major Course Contents:

- Probability Theory, Random Variables
- Random Processes
- Matrix Definitions, Operations, and Properties
- Wireless Standards
- Statistical Multipath Channel Models
- Performance of Digital Modulation over Wireless Channels
- Multiple Antennas and Space-Time Communications
- Multicarrier Modulation
- Multiuser Systems
- Design of a communication test bed using Matlab/Simulink
- Testing of a Communication system using USRP on SDR platform

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.

Eligibility: The programme is open to the **teachers of engineering colleges, MCA colleges and other allied disciplines** in Telangana, Andhra Pradesh, Karnataka states and Pudicherry, Andaman and Nicobar islands, Lakshadweep UTs. Industry personnel working in the concerned/allied discipline can also attend.

Registration Fee Particulars:
Faculty members (Rs 2000/- Only) and
Industry participants (Rs 6000/-Only)

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

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 vymani@nitw.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. 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.nitw.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: 15.11.2015

Selection-list intimation/display before: 20.11.2015

Duration of Program: 14st December–23rd December 2015

About the Institute, department and Warangal:

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.

The Department of Electronics and Communication Engineering offers an Undergraduate program in Electronics and communication Engineering and three Postgraduate programs in EI, VLSI, and ACS Specializations. The Department has experienced faculty and well-established laboratories. The Department has liaison with reputed industries and R&D organizations like DRDO, ISRO ECIL, Analog Devices Bangalore and C-DAC. Department conducts various sponsored programmes throughout the year.

Warangal is known for its rich historical and cultural heritage. It is situated at a distance of 140Km. from Hyderabad. Warangal is well connected by rail and road. National Institute of Technology campus is 2 Km. away from Kazipet junction and 12Km. away from Warangal station.

FORMAT OF APPLICATION
Electronics and ICT Academy
Faculty Development Programme
on

Wireless Communication-Hands on
(14th December– 23rd December, 2015)

1. Name :
2. Designation :
3. Institution :
4. email:
5. DD No: Bank: Date:
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. Are 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
..... is
an employee of our Institute/Organization and is
hereby sponsored to participate in the FDP on
Wireless Communication-Hands on sponsored by
Electronics & ICT Academy during 14th December –
23rd December, 2015 at *Electronics & ICT
Academy*, National Institute of Technology,
Warangal.

Place:
Date:

Signature of Head of Institution
(with seal)

Address for correspondence

*Post your application form with DD to
Dr. V. V. Mani, Assistant Professor
Department of Electronics and Communication
Engg., National Institute of Technology Warangal,
WARANGAL - 506 004, Telangana State, India.*

*Mail the scanned copies of filled-in and duly signed
application form with DD to
vmmani@nitw.ac.in, vmmani2000@gmail.com
For more information visit: <http://nitw.ac.in/eict/>*

For any enquiry contact:
Mobile: 0 8332969365
Land line: 0870-2462447

Coordinator

Dr. V. V. MANI

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Electronics & ICT Academy and

Department of Electronics and Communication Engineering

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