



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

**Digital Communications and FEC coding techniques**

Organized by

**Electronics & ICT Academy**  
**and Department of Electronics and Communication Engineering**  
**(11<sup>th</sup> April 2016– 15<sup>th</sup> April 2016)**

**Preamble:**

“Electronics & ICT Academy” is being set up at NIT Warangal with financial assistance from DeitY, MCIT, Gol. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka States and Goa. The role of academy 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 workshop brings together different techniques in the growing research area of Advances in digital Communications and FEC Coding techniques with a focus on the hardware realisation of different FEC codes. This workshop focuses on imparting knowledge required to implement digital communication system with efficient FEC coding techniques.

**Major Course Contents:**

- Fundamentals of Digital communications
- Digital base band communication
- Maximum likelihood detection
- Digital modulation techniques
- Matched filter
- Review of Block codes and cyclic codes
- LDPC block codes and codes on graphs
- BCH and RS codes
- Convolutional codes
- Turbocodes
- Hardware implementation

**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 college 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.

**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 [dcct2016@nitw.ac.in](mailto:dcct2016@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](http://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 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. Reservations are followed for selecting candidates as per GOI norms.

**Important dates:**

Last date for submission of application: 04.04.2016

Selection-list intimation/display before: 05.04.2016

Duration of Program: 11<sup>th</sup> April 2016– 15<sup>th</sup> April 2016

**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 B.Tech. course in ECE, M.Tech courses in Advanced Communication Systems (ACS), VLSI design and Electronic Instrumentation. The Department has experienced faculty with good publications and well-established laboratories. The Department has liaison with reputed industries and R&D organizations.

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 station and 12Km. away from Warangal station.

**FORMAT OF APPLICATION**

**Electronics and ICT Academy**  
**Faculty Development Programme**  
**on**

**Digital Communications and FEC Coding**  
**Techniques**  
**(11<sup>th</sup> April 2016– 15<sup>th</sup> April 2016)**

- 1. Name :
- 2. Designation :
- 3. Institution :
- 4. email:
- 5. DD No:                      Bank:                      Date:
- 6. Address for Correspondence

**SPONSORSHIP CERTIFICATE**

Dr/Mr/Ms. .... is  
..... is  
an employee of our Institute/Organization and is  
hereby sponsored to participate in the FDP on  
digital communications and FEC coding Techniques  
by **Electronics & ICT Academy** during 11<sup>th</sup> April  
2016-15<sup>th</sup> April 2016 at National Institute of  
Technology, Warangal

- 7. Educational Qualifications with specialization:
- 8. Subjects taught so far:
- 9. No. of refresher courses/workshops attended:

Place:  
Date:

Signature of Head of Institution  
(with seal)

- 10. Experience (in years)  
Teaching :  
Research:  
Industry:
- 11. Accommodation required: YES / NO
- 12. Do you belong to SC/ST: YES/NO

**Address for correspondence**

*Post your application form with DD to*  
Dr.S.Anuradha  
Dept. of Electronics and Communication Engg,  
National Institute of Technology Warangal,  
WARANGAL - 506 004, Telangana State, India.

**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.

*Mail the scanned copies of filled-in and duly signed application form with DD to*  
dcct2016@nitw.ac.in  
For more information visit: <http://nitw.ac.in/eict/>

Place:  
Date:                      Signature of the applicant

For any enquiry contact:  
Mobile: 8332969364  
Land line: 0870-2462446

---

**Coordinators**

**Dr.S.Anuradha and Dr.P.Sreehari Rao**

**Organized by**

**Electronics & ICT Academy and**  
**Department of Electronics and communication Engineering**

**NATIONAL INSTITUTE OF TECHNOLOGY**

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