



## FACULTY DEVELOPMENT PROGRAMME (FDP)

On

### RECENT TRENDS IN SIGNAL PROCESSING AND ITS APPLICATIONS

(22/06/2017 to 01/07/2017)

Jointly Organized by



## ELECTRONICS & ICT ACADEMY, NATIONAL INSTITUTE OF TECHNOLOGY

WARANGAL – 506 004 (Telangana State)

&

### Department of Electronics and Communication Engineering

### VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad

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

#### Preamble:

"Electronics & ICT Academy" is 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. 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. Under the umbrella of this academy, a standardized course namely "**Recent Trends in Signal Processing and its Applications**" is proposed to be held at VNR VJIET, Hyderabad.

Signal processing forms the most fundamental operations required in Communications, Radar systems, Satellite systems, Medical equipments and numerous other fields. Recent advances in signal processing such as deep learning, advanced neural networks has led to building highly reliable systems leading to its applications in most challenging environment. This course is highly beneficial in understanding and developing applications in this fast paced ever changing life scenario.

#### Major Course Contents:

- Review of Signals and Systems
- Transform Techniques
- Filter Design and Filter Realization
- Multirate Signal Processing
- Adaptive Signal Processing
- DSP Processors
- Speech Signal Processing
- Radar Signal Processing
- Image Processing
- VLSI Signal Processing
- Social Signal Processing
- Fundamentals of biomedical signal processing
- Biometric sensors and its processing
- Advances in medical imaging
- Real Time signal processing applied on advanced processors like TI, FPGAs etc.
- Deep learning as advanced application of signal processing
- Hands-on sessions using MATLAB

#### Resource Persons:

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, 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.

#### Registration Fee Particulars:

Faculty and Research Scholars from Telangana, Andhra Pradesh, Karnataka, Puducherry, Andaman and Nicobar Islands, Goa	Rs. 3000/-
Faculty of SC/ST Category from Telangana, Andhra Pradesh, Karnataka, Puducherry,	Rs. 750/- (SC/ ST participants should submit their caste certificate to claim the

Andaman and Nicobar Islands, Goa	concession along with application form)
Industry Participants	Rs. 9000/-
Participants from other states	Rs. 12500/-

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

#### Accommodation:

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

#### 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 be handed over at the registration desk on the first day of FDP. It is also mandatory to send scanned application form and demand draft through e-mail to [padmasai\\_y@vnrvjiет.in](mailto:padmasai_y@vnrvjiет.in) and acknowledgement will be intimated through e-mail.

#### Selection Criterion:

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. 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 of seats are followed for selecting candidates as per GoI norms.

**Venue:** VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad.

#### Important dates:

Last date to receive application along with Demand Draft : 19/06/2017  
 Intimation to Selected candidates by email : 20/06/2017  
 Duration of Program : 22/06/2017 to 01/07/2017  
 Spot registrations will be accepted based on the number of registrations.

#### About NITW & VNR VJIET:

**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, M.Tech. and Ph.D. programmes in various specializations. All B.Tech and M.Tech programmes of NIT Warangal are NBA accredited.

"**Valluripalli Nageswara Rao (VNR) Vignana Jyothi Institute of Engineering and Technology**" was established by "VIGNANA JYOTHI. "Vignana Jyothi" was carved and created in the year 1991 by a dedicated group of Industrialists, Entrepreneurs and Professionals who felt that education is the light that wipes out the darkness of an uncertain future among the youth and were determined to impart quality education to them without profit motive. An Autonomous Institute, approved by AICTE, affiliated to JNTUH was established in the year 1995 and is accredited by NAAC with A-Grade and also 7 UG & 4PG programmes are accredited by NBA. UGC recognized VNR VJIET as College with Potential for Excellence Status. Being one of the most preferred colleges in T.S., VNRVJIET is well known for its discipline, technical excellence, infrastructure, record student performance, research activities, etc.



**FACULTY DEVELOPMENT PROGRAMME (FDP)**  
**On**  
**RECENT TRENDS IN SIGNAL PROCESSING AND ITS APPLICATIONS**  
**(22/06/2017 to 1/07/2017)**  
**Jointly Organized by**



**ELECTRONICS & ICT ACADEMY, NATIONAL INSTITUTE OF TECHNOLOGY**  
**WARANGAL - 506 004 (Telangana State)**

**&**  
**Department of Electronics and Communication Engineering**  
**VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad**  
**(Sponsored by MeitY, Govt. of India)**

**APPLICATION FORM**

1. Name: \_\_\_\_\_ Gender: M/F
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\*\*
- \*\*If Yes please specify and attach a photocopy

**Paste  
Passport  
Photograph  
here**

**Declaration**

The information provided is true to the best of my knowledge. 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 employee of our Institute/Organization and is hereby sponsored to participate in the FDP on "**Recent Trends in Signal Processing and its Applications**" sponsored by **Electronics & ICT Academy** during 22<sup>nd</sup> June – 01<sup>st</sup> July 2017 at VNR Vignana Jyothi Institute of Engineering & Technology.

Place: \_\_\_\_\_

Date: \_\_\_\_\_

Signature of Head of Institution  
(with seal)

**Coordinators**

**Dr. T.Kishore Kumar**  
**Department of ECE,**  
**Electronics & ICT Academy, National Institute of Technology**  
**Warangal (T.S.)**  
**Mobile: 8332969353**

**Dr.Y.Padma Sai**  
**Department of ECE, VNR VJJET**  
**Hyderabad**

**Address for Correspondence**

Mail the scanned copies of filled-in and duly signed application form with DD to [padmasai\\_y@vnrvjiet.in](mailto:padmasai_y@vnrvjiet.in) &

[ypadmasai@gmail.com](mailto:ypadmasai@gmail.com)

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

For any enquiry contact: 9177033033 & 9000037660