

Faculty Development Program (FDP)

On

New Algorithms for Signal Processing

Hands on

20th to 27th April - 2018

Jointly Organized by

Electronics & ICT Academy and

Department of Electronics and Communication and Engineering

Lakireddy Bali Reddy College Of Engineering, Mylavaram

(Sponsored by DEITY, HRD division, Miety, 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, Pondicherry 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 the FDP on new signal processing Algorithms for a rapid dissemination of knowledge and experience to engineers and scientists working in the research, development and practical applications of signal processing. The classical theory of signal processing is based on models which are stationary, linear in many cases also assume that signals have Gaussian amplitude distributions. In recent years there has been a rapid growth in the applications of signal processing in many modern areas of engineering, communications and computing. The course will cover: Basic theory of linear and non-linear signal processing, different design techniques and apply various fast algorithms for filtering, adaptive systems and its properties.

Major Course Contents:

- Introduction to Digital Signal processing with hands on
- Adaptive filter Design, System Identification and Channel Equalization using conventional algorithms
- Genetic Algorithm and Particle swarm Optimization for adaptive filter design
- Neural Networks and deep neural networks for Image processing applications.
- Speech analysis, recognition, analysis and synthesis
- Radar Signal Processing
- Biomedical Signal Processing
- Differential Evolution and Radar Imaging
- Adaptive beam forming techniques.

Resource Persons: The program 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 program 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 Pudicherry, Andaman & Nicobar islands and Lakshadweep UTs. Industry personnel working in the concerned/allied discipline can also attend. Pre-Requirements: Basics knowledge of digital signal processing

Faculty conducting this program:

Registration Fee Particulars:

| | |
|---|-----------------|
| Faculty & Research Scholars from Telangana, Andhra Pradesh, Karnataka, Goa, Pondicherry and Andaman & Nicobar Islands | Rs. 2500/- Only |
| SC/ST Faculty members from Telangana, Andhra Pradesh, Karnataka, Goa, Pondicherry and Andaman & Nicobar Islands | Rs. 1250/- Only |
| Industry participants | Rs. 7500/- Only |
| Participants from other States | Rs. 8500/- Only |

*SC/ST participants should submit the copy of their certificate to claim the concession along with application form and it is only for faculty of mentioned states.

Research Scholars are not eligible for SC/ST concession.

The entire registration fee is to be collected in the form of DDs/ online transfer using the following details:

| DD Details | Online Transfer Details |
|--|---|
| Demand Draft in favor of "Director, NIT Warangal" payable at any bank in Warangal. | Account Name: Electronics & ICT Academy NITW Account No: 62423775910 IFSC code: SBIN0020149 |

Accommodation: Lodging and boarding will be provided at LBRCE campus at no additional cost. .

Venue: Rose Hall, Admin Block, LBRCE, Mylavaram.

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 rndecelbrce@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.lbrce.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: 12.04.2018

Selection-list intimation/display before: 18.04.2018

About NITW & LBRCE:

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. All B.Tech and M.Tech programmes of NIT Warangal are NBA accredited.

Lakireddy Bali Reddy College of Engineering (LBRCE) was founded through Lakireddy Bali Reddy charitable trust in 1998, which ultimately to the development of the rural area where the college is situated. LBRCE has a vibrant campus spread over 60 acres of serene and natural surroundings with plenty of greenery in Mylavaram, Krishna District, Andhra Pradesh. LBRCE, an ISO 9001:2015 certified institution is approved by AICTE and affiliated to JNTUK Kakinada. LBRCE stands for quality standards in technical education that is exemplified in the continuous strides it has taken towards excellence in the last 5 years. We were accredited with 'A' Grade by NAAC following a visit by the peer team in Dec.2012. Earlier, NBA accorded Accreditation to the eligible 5 UG programs in the year 2008 for 3 years and 3 UG programs were reaccredited in 2015. The college has also been awarded 2 (f) and 12(B) status, apart from the recognition as a 'College with Potential for Excellence' (CPE) by the UGC. LBRCE has been recognized as an NPTEL Local chapter. We were ranked with AAA+ rating in India's Best Engineering Colleges list by Careers 360, in addition to the 'A' Grade by the govt of Andhra Pradesh.

APPLICATION FORM
Electronics and ICT Academy
Faculty Development Programme

On

New Algorithms for Signal Processing using MATLAB

20th to 27th April - 2018

1. Name:

Place:

2. Designation:

3. Institution:

SPONSORSHIP CERTIFICATE

4. Email:

Dr/Mr/Ms.....

5. DD No:

Bank:

Date:

is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on 5G Wireless Communications. Sponsored by **Electronics & ICT Academy** during **20th to 27th April – 2018** at LBRCE, Hyderabad.

6. Address for Correspondence

7. Educational Qualifications with specialization:

Place:

8. Subjects taught so far:

Date:

9. No. of refresher courses/workshops attended:

Signature of Head of Institution

(with seal)

10. Experience (in years)

Teaching:

Research:

Industry:

Address for correspondence

11. Accommodation required: YES / NO

12. Do you belong to SC/ST: YES/NO

(If yes, please submit a copy of caste certificate to claim the concession)

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

jrk.nitw@nitw.ac.in, rndecelbrce@gmail.com

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

<http://lbrce.ac.in/>

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.

For any enquiry contact:

Mobile: 9182160989, 0 8332969363

Land line: 0870-2462444

Date:

Signature of the applicant

Coordinators

Dr. J.Ravi Kumar
Department of ECE,
Electronics & ICT Academy
NATIONAL INSTITUTE OF TECHNOLOGY
WARANGAL – 506 004 (Telangana State)

Dr. M.Madhavi
Department of ECE,
LakiReddy BaliReddy College of engineering
(AUTONOMOUS)
Mylavaram, Krishna District-521130.