

Chaitanya Bharathi Institute of Technology  
Gandipet, Hyderabad, Telangana, INDIA

**REGISTRATION FORM**

**“Recent advances in signal  
Processing”  
(Supported by TEQIP)  
30 – 31<sup>st</sup> March, 2017**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Address for Correspondence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone: (O) \_\_\_\_\_ (R) \_\_\_\_\_

Fax: \_\_\_\_\_ E-Mail: \_\_\_\_\_

Experience (Years): \_\_\_\_\_

Research Interests: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Payment Details:**

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Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Applicant's Signature

Recommended

Signature (Head of the Institute, with seal)

**Two day Workshop  
on  
“Recent advances in signal  
Processing”**

**(Supported by TEQIP)**

**30 – 31<sup>st</sup> March, 2017**



Venue

**E-classroom, Department of ECE  
(N-Block)**

Organized  
by

**Department of Electronics and Communication  
Engineering (ECE)**

UG Program and One PG Program Accredited by NBA

**Chaitanya Bharathi Institute of Technology (A)**

Affiliated to Osmania University,

Accredited by NAAC

ISO Certified 9001:2008 Institution

**Chaitanya Bharathi (P.O),  
Gandipet, Hyderabad – 500075.**

**COURSE FEE**

1. For Faculty: Rs. 400/-
2. For Research Scholars: Rs. 300/-
3. For students UG/PG: Rs. 200/-
4. For Engineers/Scientists: Rs. 1000/-

(Payment by Demand Draft in favour of Head,  
Dept of ECE, Gandipet, Hyderabad, payable at  
the Andhra Bank, Kokapet.)

**IMPORTANT DATES:**

Last date for receipt of application: **23<sup>rd</sup> Mar,17**  
Workshop Dates: **30 – 31<sup>st</sup> March, 2017**

**PATRON**

**Dr. V. Malakonda Reddy**  
President, CBIT Society

**ADVISOR**

**Dr. B.Chennakesava Rao**  
Principal, CBIT

**WORKSHOP CHAIRMAN**

**Dr. N. V. Koteswara Rao**  
Head, Department of ECE

**COURSE DIRECTOR**

**Dr. Kakarla Subba Rao**  
Professor, Dept. of ECE  
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**WORKSHOP COORDINATORS**

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## **Chaitanya Bharathi Institute of Technology (CBIT)**

CBIT is one of the premier engineering colleges for imparting engineering education in the state. This is a first self financed engineering college, established in 1979 in Hyderabad with a prime motto to shape young, innovative and creative engineers in building the Nation's Human Resource Capital. The college offers Nine UG and Eleven PG courses. It has been accredited by NBA (AICTE) and NAAC (UGC). This institute is also certified by ISO 9001:2008. Autonomous status was granted by UGC from the academic year 2013-14. The grants received from AICTE/UGC are worth about Rs.2.0 crores. The Institute has signed MOU with State Project Facilitation Unit (SPFU), Technical Education Quality Improvement Program (TEQIP-II) Hyderabad. The objectives of the TEQIP project are strengthening institutions to produce high quality engineers for better employability, Scaling-up PG education, Demand-Driven Research and development and innovation, Establishing centers of excellence for focused applicable research, training of faculty for effective teaching and enhancing institutional and system management effectiveness.

### **Dept. of Electronics and Communication Engineering (ECE)**

The department of ECE was established in 1979. The department offers Bachelor of Engineering (BE) in ECE. This is accredited by NBA (AICTE).

Also offers two Master of Engineering (ME) programs with Communication Engineering and Embedded Systems & VLSI Design as specializations. The department has highly qualified and experienced faculty. The department has good infrastructural facilities and eleven full-fledged laboratories equipped with adequate hardware and software. The faculty is active in R&D and publishing papers in International / National Journals and Conferences. The department has successfully completed projects from AICTE and GE. Presently the department is executing projects that are sponsored by AICTE (New Delhi), DST (New Delhi), and RCI (DRDO). So far this department organized 32 technical programs including Faculty development program (FDP) and National Seminar (NS) sponsored by AICTE. The Dept. is recognized as a Research Center by Osmania University, Hyderabad.

### **About the workshop**

Fourier analysis plays an important role in signal processing. However, it is useful if the signals are stationary. For analyzing the characteristics of a Non-stationary data many Time- Frequency Techniques such as Short Time Fourier Transform (STFT), Wavelets and S-transform etc. have been introduced. The applications of Wavelets in Signal processing and image processing encompass the fields of Communication, Industrial automation, Multimedia, and medical imaging etc. Sparse signal Processing is another area which is developing very fast and finds an increasing number of applications. An introduction to Sparse signal processing will be given.

The Objective of the workshop is to provide an opportunity for faculty members, researchers and practicing engineers to upgrade their knowledge in this platform.

### **Course Contents**

Overview of Discrete Fourier Transform, Digital filters, Time-Frequency Analysis, Multirate techniques, Multi resolution Analysis (MRA), Wavelet Transform, Wavelet Packets, Relationship between wavelets and filter banks, Applications of wavelet transforms, Introduction to S-Transform and Sparse Signal Processing.

The resource persons for the workshop are:

- **Dr. M. Madhavi Latha**  
*JNTUH, Hyderabad*
- **Dr. K. Deergha Rao**  
*VCE, Hyderabad*
- **Smt. Sujatha Ravichandran**  
*Sc-'G', RCI, Hyderabad*
- **Dr. K. Subba Rao**  
*CBIT, Hyderabad*
- **Scientists from DRDO labs.**