



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. [www.cbit.ac.in](http://www.cbit.ac.in)



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION



## **DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

is Organizing

A One Week Online Faculty Development Program

on

## **RESEARCH OPPORTUNITIES IN IMAGE PROCESSING AND MACHINE LEARNING**

29<sup>th</sup> June – 03<sup>rd</sup> July, 2020

Faculty of Electronics and Communication Engineering can Participate

### **Resource Persons**

Prof. R. Krishnan, Former Director ADRIN, ISRO &  
Former Dean IIST, Trivandrum  
Prof. K. Nagi Reddy, NBKRIST, Vidyanagar, Nellore  
Prof. S. Nagaraja Rao, Head, ECE Dept., GPREC, Kurnool  
Dr. Laxmi Shaw, Asst. Professor, CBIT

Prof. Siba. Kumar Udgata, HCU, Hyderabad  
Prof. S. L. Sabat, HCU, Hyderabad  
Prof. T. V. Rajanikant, SNIST, Hyderabad  
Prof. P. Narahari Sastry, CBIT

☞ No Registration Fee

☞ Use the Link to Register <https://forms.gle/np45hE1qKj5N5s5s6>

☞ Use the Link to Join <https://sites.google.com/a/cbit.ac.in/ece-technicalprogramme/>

## Objectives of the Course

- To create awareness on Image Processing and Machine Learning concepts.
- To introduce various Image Processing Tools and Algorithms for Image Transmission and prevention of undesired images.
- To explore applications of Image Processing in the domain of Medical Images and Character Recognition.
- To nurture Adaptive Signal Processing Algorithms for Machine Learning.
- To acquaint Research opportunities in Image Processing.

## Expected Course Outcomes

After successful completion of the Program, the Student should be able to

- Understand the concepts of Image Processing and Machine Learning.
- Apply various tools/algorithms for secured Image transmission.
- Use the Mathematical models for Machine Learning Algorithms.
- Implement Machine Learning algorithms in Medical Image Processing.
- Formulate research problems in the Signal Processing and Machine Learning.

## FDP Guidelines

1. Timings of the sessions will be from 10:30 AM to 12:00 PM and 03:30 PM to 05:00 PM.
2. Weblink for the sessions will be updated on FDP website and FDP WhatsApp group.
3. Participants need to mark their attendance in the google form that will be circulated during the Morning Session from 11:00 AM to 12:00 Noon and during the Evening Session 03:30 PM to 04:30 PM on FDP Website.
4. Each session will be followed by 15 minutes of interaction.
5. At the end of each day, an Online Quiz will be conducted which needs to be completed within 30 minutes. The Online Quiz will be available between 07:00 PM - 08:00 PM on FDP Website.
6. E-Certificate will be awarded to the enrolled participants, only if they meet the following:
  - i. Attendance should be minimum of 80%.
  - ii. Total Marks in all quizzes should be more than 50%.

## DAY WISE SCHEDULE

Date/Time	29 June, 2020 Monday	30 June, 2020 Tuesday	01 July, 2020 Wednesday	02 July, 2020 Thursday	03 July, 2020 Friday
	Day 1	Day 2	Day 3	Day 4	Day 5
10:30 AM to 12:00 Noon	<b>Dr. Siba Kumar Udgata</b> Machine Learning: Applications and Cautions	<b>Dr. Siba Kumar Udgata</b> GAN Algorithm for Image Processing	<b>Dr. R. Krishnan</b> Image understanding strategies	<b>Dr. R. Krishnan</b> Steganography for Image Processing	<b>Dr. T.V. Rajanikant</b> Advanced ML Algorithms in Medical Image Processing
<b>LUNCH BREAK</b>					
3:30 PM to 5:00 PM	<b>Dr. Laxmi Shaw</b> Deep Learning Applications in Image Processing	<b>Dr. K. Nagi Reddy</b> Mathematical Models for Machine Learning	<b>Dr. P. Narahari Sastry</b> Palm Leaf Character Recognition	<b>Dr. S. Nagaraja Rao</b> Adaptive signal processing and its applications	<b>Dr. S. L. Sabat</b> Research opportunities in Signal Processing

### CHIEF PATRON

**Kavi Kireeti Dr. V. Malakonda Reddy**, President, CBIT

### PATRONS

**Sri. N. Subash**,  
Secretary & Correspondent, CBES

**Smt. D. Sandhya Sree**,  
Member and Chairperson, D&P, CBIT.

### ADVISORS

**Prof. P. Ravinder Reddy**,  
Principal, CBIT

**Prof. A. D. Sarma**  
Director, R&D, CBIT

### CONVENORS

**Prof. D. Krishna Reddy**, Head, Department of ECE  
**Prof. P. Narahari Sastry**, Department of ECE

### Coordinators

**Mr. G.V. Pradeep Kumar**, Asst. Professor, Dept. of ECE, Contact No: 9966088798  
**Mr. Mohd. Ziauddin Jahangir**, Asst. Professor, Dept. of ECE, Contact No: 9885717845  
**Mr. J. Balakrishna**, Asst. Professor, Dept. of ECE, Contact No: 8985151787

### Co-Coordiators

**Ms. K.S.R.S. Jyothsna**, Asst. Professor, Dept. of ECE, Contact No: 9959540941  
**Mr. Mohd. Sikander**, Asst. Professor, Dept. of ECE, Contact No: 7207447566  
**Ms. D. Sony**, Asst. Professor, Dept. of ECE, Contact No: 9700583344