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Sri. N. Subash, President, CBIT

## Patron

Prof. C. V. Narasimhulu, Principal, CBIT

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Prof. D. Krishna Reddy, Head, ECE

Prof. P. Prabhakar Reddy, Head, Mechanical

## Advisory Committee:

Prof. P. Ravinder Reddy, Director & Head, R&E Hub

Prof. Umakanta Chaudhury, Advisor –Innovation & Incubation

Prof.A.D.Sarma, Advisor - R&D

Prof. N. T. Rao, Director –IQAC

Prof.P.V.R.Ravinder Reddy – Director – Students Affairs & Progression

Dr.N.L.N.Reddy, Director - CDC

Prof. M.Sushanth Babu, Director- Academics

## Organizing Committee:

### Coordinators

1. Dr. P. Narahari Sastry, Professor, Dept. of ECE, CBIT.

2. Dr. N.V. Srinivasulu, Professor, Dept. of Mechanical Engg, CBIT.

### Co- Coordinators

Dr. G. Mallikharjuna Rao, Dr.M.Ramana Reddy, Mr.A.Krishna Kumar, Dept. of ECE.

Ms. P.Anjani Devi, Mr. K.Gurubrahmam, Dr.S.Narsimha Kumar, Dept. of Mech.

## Registration QR Code & Link:



URL: <http://surl.li/penjq>

Contact:

Dr.M.Ramana Reddy, Asst.Prof.,Dept.of ECE, 9849634083

Sri.A.Krishna Kumar, Asst.Prof.,Dept.of ECE, 9440431769

## Registration fee

- For PG students/ Ph.D. scholars/Industry persons: Rs 200
- For Faculty other than CBIT: Rs 300



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

45  
years

## One Week Online Faculty Development Program

### “Application of AI/ML Using Pattern Recognition & Intellectual Property Rights”

29<sup>th</sup> January – 02<sup>nd</sup> February 2024



Organized by  
Departments  
of  
Electronics and Communication Engineering  
&  
Mechanical Engineering

### About the College

CBIT is one of the premier Engineering Institutes in India, pioneer in Telangana State, which is at idyllic surroundings of Gandipet Lake, Hyderabad. The college offers Nine UG and Eleven PG programs. It has been standing as a temple of knowledge for the past 45 years by producing more than 25,000 Eminent and skillful Graduate Engineers, who are successful in their Careers, serving all over the Globe. The Institute has been accredited by NAAC – UGC with 'A++' Grade and various programs are accredited by NBA – AICTE. The institution is UGC autonomous since 2013-14. Stringent Academic Standards, Industry Compliant Teaching Methodology, Research Projects from Private and Public Sector organizations and Consultancy Practice enabled the Institute to establish its identity in the Technical Education and is ranked as one of the best amongst the Private Engineering Colleges.

### Department Of ECE

The Department of Electronics and Communication Engineering, CBIT is offering one UG Program in ECE and with an intake of 180 and two PG programs in Communication Engineering and Embedded Systems & VLSI Design. The department has 48 faculty members out of which 35 are PhDs. The department is growing exponentially in terms of R&D and consultancy. The Ongoing Sponsored research projects worth of Rs. 245.01 lakhs were awarded to the faculty by ISRO, DST, AICTE, UGC, DRDO etc. A total of 19 patents were published and 6 patents are granted as on date. The Department is well equipped with all state-of-the-art equipment's, Laboratories & workshops providing all necessary facilities to the students. There are two special industry oriented labs namely Navigation & Communication Research Centre (NCRC) Lab and Green Opto Nano Energy (G-1) Lab.

### Department of Mechanical

The Department of Mechanical engineering, CBIT is offering one UG Program in Mechanical Engineering and with an intake of 120 and two PG programs in CAD/CAM and Thermal Engineering domains. The department has 47 faculty members out of which 27 are PhDs. The department is growing exponentially in terms of R&D and consultancy. 24 sponsored research projects worth of Rs. 285 lakhs were awarded to the faculty by DST, AICTE, UGC, DRDO, BHEL etc. 28 patents were published out of which 9 were granted. Nearly Rs.17 lakhs was earned by the department through consultancy in the last 5 years. 74 events were organized by student's professional societies, under the guidance of department faculty 48 PhDs were awarded and 3 were submitted and 59 more are pursuing. The Department is well equipped with all state-of-the-art equipment's, Laboratories & workshops providing all necessary facilities to the students. The Hexagon Capability Center India has opened Innovation laboratory in the premises of the CBIT. The lab has been equipped with hardware and software worth Rs.1188.15 Lakhs. B.E Mechanical Engineering, M.E CAD/CAM Programs were accredited by NBA.

### About the FDP and Its Objective

The FDP aims to emphasize the thrust area "AI/ML" and its applications along with the importance of patents copyrights and its protection. It focuses on the basics for a new extent to develop skills for the innovative ideas generated by him. Also, this FDP helps to protect these ideas generated by filling patents and copyrights. These innovative thoughts can be applied to various fields of engineering like mechanical, pharma, Computer science etc.

### Emerging Areas to be covered.

- **Basic concepts of AI/ML**
- **Patent filing and procedure**
- **ML Model Life Cycle.**
- **Concepts and Applications of Pattern Recognition**
- **IPR- An Overview and its implications**
- **Pharma Research Content Management through advanced AI and ML/NLM tools.**
- **Copyrights' in IPR and its protection**
- **Pattern Recognition techniques applied to palm leaf character Recognition.**

### Intended Participants

- **Faculty/Industry Personnel/Ph.D. scholars/PG students**

### Outcomes

- **At the end of the FDP, Participants will know the basics of AIML & its applications in various fields.**
- **They will come to know how to file a patent in India & Abroad.**

### Resource Persons

- **Sri. Adiki Srinivas, Sr.Customer Delivedy Architech, AWS, USA.**
- **Dr. K. Vally Maya, Associate Director, Cognizant Technology Services, Hyderabad.**
- **Prof. Siba Kumar Udgata, University of Hyderabad.**
- **Prof. U.K. Chowdary, Advisor (i&i), R&E, CBIT, Hyderabad.**
- **Dr. C.K. Rao, Retd. DGM, BHEL R&D, Hyderabad.**
- **Prof. N.V. Srinivasulu, Mechanical Engg. Dept., CBIT, Hyderabad.**
- **Prof. P. Narahari Sastry, ECE Dept., CBIT, Hyderabad.**