

## ORGANIZING COMMITTEE

### Chief Patron

Sri. N. Subash, President, CBIT

### Patron

Dr. C. V. Narasimhulu, Principal, CBIT

### Advisors

Prof. P Ravinder Reddy, Director R&E  
Prof. P V R Ravindra Reddy, Director SAP  
Prof. A D Sharma, Advisor R&D  
Prof. Umakant Choudhary, Advisor I&I  
Prof. N T Rao, Director IQAC  
Prof. N Sushant Babu, Director Academics  
Prof. P Suresh, Director AEC & COE

### Convenor

Dr. P. Prabhakar Reddy, HoD, Mechanical, CBIT

### Coordinators

Dr. Ashutosh Sahu, Assistant Professor, MED.  
Dr. Kiran Kumar Amireddy, Assistant Professor,  
MED

### Co-Coordiators

Dr. Venkata Sushma Chinta, Assistant Professor,  
MED  
Dr. Rahul, Assistant Professor, MED  
Dr. Y S Kannan, Assistant Professor, MED  
Mr. P Radha Krishna Prasad, Assistant Professor,  
MED

**Mode of classes:** Online

**Timings:** 2:00 PM to 4:00 PM

## ABOUT THE INSTITUTE

CBIT is one of the premier Engineering Colleges in the state of Telangana located in the serene surroundings of Gandipet Lake. Over the past 45 years this institute has become a temple of knowledge and produced about 22,000 eminent and skillful graduate and postgraduate engineers, serving all over the world. Various programs of the college were accredited five times by NBA (AICTE) and the institute is also accredited (A++) by NAAC - UGC. UGC has granted autonomous status to this institute from the academic year 2013-2014 and renewed in 2019-2020. The total constructed area is about 6.257 lakhs sq. ft, Worth about Rs. 55.00 crores spread over 50.32 acres. The grants received from AICTE/UGC/DST are worth about Rs. 10 crores. The college offers Nine UG and Eleven PG courses. The institute has signed MOUs with various esteemed organizations.

## ABOUT MECHANICAL ENGINEERING DEPARTMENT

Established in the year of 1979, the Department of Mechanical Engineering has grown its expertise and competence in the core Mechanical Engineering curriculum and research. We have a strong undergraduate program in this department. At present, 48 students are pursuing PhD under different faculty members. Several PhD scholars from various organizations carry out their research work under our department. Besides, our department is recognized as a research center by the Osmania University. Our department has an excellent record in both teaching and research in the Institute. Faculty members have good academic credentials and are highly motivated. They have been conferred with prestigious awards at national level. Several faculty members serve on the editorial boards of National and International Journals, review technical articles for journals on a regular basis, and organize International Symposia and Conferences. The students work with various clubs/chapters like ASME, SAE, Robotics, ISTE, and Innovation Ideas Club.



## One-week Faculty Development Program (FDP)

## on “Technological Advancement in Synthesis of Novel Materials”

05<sup>th</sup> August - 10<sup>th</sup> August, 2024

**Coordinators**  
**Dr. Ashutosh Sahu**  
**Dr. Kiran Kumar Amireddy**

**Organized by**



**Department of Mechanical Engineering**

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

(Affiliated to Osmania University & Approved by  
AICTE, Accredited by NBA-AICTE, NAAC-  
UGC, ISO 9001-2015 certified Institute)  
**Kokapet (V), Gandipet (M), Hyderabad,**  
**Telangana-500075**  
**Website: <http://www.cbit.ac.in>**

## ABOUT THE PROGRAMME

The objective of the program is to provide knowledge of advanced techniques used to synthesize various advanced novel materials as given below,

- Will develop a strong foundation in powder preparation and sintering techniques.
- Will develop knowledge of synthesis and application of bimodal composites.
- Will develop knowledge about advanced welding techniques.

## RESOURCE PERSONS:

1. Dr. Ram Sajeevan Maurya  
Department of Metallurgical Engineering and  
Materials Science  
Indian Institute of Technology, Indore

2. Dr. Lavish Kumar Singh  
School of Engineering  
Jawaharlal Nehru University, Delhi

3. Dr. Deepak Sharma  
School of Engineering  
Jawaharlal Nehru University, Delhi

## TOPICS TO BE COVERED

- The process of powder preparation such as gas atomization and mechanical milling / alloying
- The process of sintering via advanced consolidation techniques such as vacuum hot pressing, spark plasma sintering, microwave sintering etc.
- Synthesis techniques for various metal based bimodal composites and their industrial applications
- Synthesis of nano materials via techniques such as accumulative roll bonding, severe plastic deformation etc. and consequent development of mechanical properties of materials

## ELIGIBILITY

Faculty of mechanical engineering, metallurgical and materials engineering, civil engineering, chemical engineering and other related branches.

## GUIDELINES

- Payment of fee and registration is first
- Eligible participants will be selected based on first come first serve basis and will be intimated by email only.

## ACCOUNT DETAILS

Registration fee: Rs. 200/-

### Bank Details:

**Bank name:** ICICI Bank

**Acc. No.** 180401001442

**IFSC Code:** ICIC0004385



## REGISTRATION

Please register by filling the below google form

<https://docs.google.com/forms/d/1z3YyftNI9BRmWuk1YLbFKn623ijoRCzKPY2x32IbMLw/edit>

## FOR DETAILS CONTACT

Dr. Ashutosh Sahu,  
Assistant Professor,  
Dept. of Mechanical Engineering, CBIT,  
Hyderabad-500075, Contact No: +91-  
8170837457,  
Email Id: ashutosh\_mech@cbit.ac.in

Dr. Kiran Kumar Amireddy,  
Assistant Professor.  
Dept. of Mechanical Engineering, CBIT,  
Hyderabad-500075, Contact No: +91-  
8754500229,  
Email Id: akirankumar\_mech@cbit.ac.in