

ABOUT THE MECHANICAL ENGG. DEPT.

Established in the year of 1979, the department has grown its expertise and competence in the core Mechanical Engineering curriculum and research. We have a strong undergraduate program in Mechanical Engineering. At present, 48 PhD scholars are pursuing their research under the guidance of faculty of the department. Several Ph.D. scholars from various organizations carry out their research work under our department. Beside this, our department is recognized as a research Centre 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, ASTRA, Robotics, and Innovation Ideas Club.

ABOUT THE PROGRAMME

The rapid evolution of global industries has created a strong need for modern design approaches and advanced manufacturing technologies that can improve product performance, reduce development time, and enhance sustainability. This workshop focuses on exploring the latest trends that are reshaping how products are conceived, designed, and manufactured across sectors such as automotive, aerospace, consumer goods, and industrial machinery.

Participants will gain insights into cutting-edge design methodologies, including digital design, simulation-driven engineering, generative design, and collaborative product development frameworks. The workshop will also highlight emerging manufacturing methods such as additive manufacturing (3D printing), hybrid manufacturing, automation and robotics, advanced machining, smart materials processing, and Industry 4.0 enabled production systems.

ABOUT THE INSTITUTE

CBIT(A) is one of the premier Engineering Colleges in the state of Telangana located in the serene surroundings of Gandipet Lake. Over the past 47 years this institute has become a temple of knowledge and produced about 33,000 eminent and skillful graduate and postgraduate engineers, serving all over the world. Various programmes of the college were accredited five times by NBA (AICTE) and the institute is also accredited 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. 45.00 crores spread over 50.32 acres. The grants received from AICTE/UGC/DST are worth about Rs. 4.5 crores. The college offers Nine UG and Eleven PG courses. The institute has signed MoU's with various esteemed organizations.

ABOUT ASL - DRDO

Advanced Systems Laboratory (ASL), located in Hyderabad, is a laboratory of **Defence Research and Development Organisation (DRDO)**. Its thrust area is on the design, development, and flight evaluation of various types of missile systems, and working on Solid Propulsion Technologies, Composites, Aerospace Mechanisms, NDT Techniques, System Design and Analysis, Mission Design and Studies, Guidance Design, and Control Systems. The focus area of ASL is to develop state-of-the-art core technologies required for the design & development of missile systems.

ABOUT ISAMPE

ISAMPE - Indian society for Advancement of materials and Processing Engineering, is a body of professionals dedicated to the promotion of professional and technical excellence in the field of materials and process technology in the country.

The major thrust of ISAMPE is in the field of advanced materials and processing technologies. It has been organizing number of Conferences, Seminars, Product, Exhibitions and Workshops in this vital field.



A National-Level Workshop *on* **“Recent Trends in Manufacturing Methods for Industry Applications”**

05th – 10th, January 2026

Coordinator

**Dr. N. Janardhan
Dr. Rahul**

Organized by

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

(Affiliated to Osmania University & Approved by
AICTE, Accredited by NBA-AICTE, NAAC-UGC,
ISO 9001-2015 certified Institute)

In collaboration with



Advanced Systems Laboratory (ASL), DRDO

&



**ISAMPE - Indian Society for Advancement of
Materials and Process Engineering,
Hyderabad Chapter**

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D. Vishweshwar Goud, B.E. Student, MED, CBIT(A)

ELIGIBILITY

The Faculty Members of the AICTE approved institutions, Research Scholars, PG Scholars, B.E./B.Tech. Students, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions.

GUIDELINES

- Eligible participants will be selected based on first come first serve basis and will be intimated by e-mail only.
- Workshop will be conducted in Hybrid Mode.
- On the last day of the program an assessment test will be conducted for all participants.
- 75% Attendance is mandatory to receive the certificate.

REGISTRATION DETAILS

- Rs. 275/-, including GST, for Faculty Members of the AICTE approved institutions
- Rs. 200/-, including GST, Research Scholars, PG Scholars
- Rs. 150/-, including GST, for B.E./B.Tech. Students
- Registration form:
<https://forms.gle/VgEaszBCnexWuxu5>



Merchant Name : CBITSTUDENTACTIVITIES
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TOPICS TO BE COVERED

Sessions will be delivered by eminent scientists, industry experts, and academicians from prestigious organizations including DRDO. As part of the workshop, participants will undertake an industrial visit to leading industries adopting advanced manufacturing and cutting-edge technologies.

1	Automation of Industry in Nuclear Fuel Production Dr. Kamalesh, OS, GM-QA, NFC
2	NDT of Aerospace Components Dr. M. Venkat Reddy, Sc-G, DRDL
3	Casting Process of Components Dr. Venkat, Sc-F, DMRL
4	Advanced Welding Processes for Defence Applications Dr. P. Masthanaiah, Sc-G, Technology Director, DoE, DRDL
5	Additive Manufacturing Dr. J. John Rozario Jegaraj, Sc-G, Technology Director DPEP, Head CFAM, DRDL
6	3D Printing for Industry Applications Sri. Raghu Kaushik, Sc-F, RCI, DRDO
7	Manufacturing of Drones for Industrial & Defence Applications Rajneesh Raju Vetukuri, CTO, Sidak Technologies Pvt. Ltd.
8	Emerging Defence Technologies: Opportunities for Engineers and Innovators Dr. Dileep Vakulabharanam, Dy. GM – Business Development
9	Advanced Materials & Manufacturing
10	Industrial Visit