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Coordinators

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Dr. Kiran Kumar Amireddy, Assistant Professor, MED.

Dr. Ashutosh Sahu, Assistant Professor, MED.

Co-Coordiators

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Sri. Chintireddy Sharath Reddy, Assistant Professor, MED

Dr. Vamsi Inturi, Assistant Professor, MED

Dr. A. Chandrakanth, Assistant Professor, MED

Mode of sessions: Offline only.

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 47 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.



CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY

An Autonomous Institute | Affiliated to Osmania University
Kokapet, Village, Gandipet Mandal, Hyderabad, Telangana-500075, www.cbti.ac.in

COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

47
years

Two-Day National Level Hands-on Workshop on Drone Technology and Applications

4th & 5th June, 2026

Coordinators

Dr. Venkata Sushma Chinta

Dr. Kiran Kumar Amireddy

Dr. Ashutosh Sahu

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.cbti.ac.in>



ABOUT Binford Research Labs

Binford Research Labs Pvt Ltd is a deep-tech defense and robotics startup based in Hyderabad, India. Founded in 2018, the company specializes in designing and developing AI-powered autonomous unmanned aerial systems (UAS), swarming drones, and stealth platforms for the Indian Armed Forces.

ABOUT THE PROGRAMME

The Department of Mechanical Engineering, CBIT is organizing a Two-Day Hands-on Workshop on Drone Technology and Applications aimed at providing participants with practical exposure to modern drone systems, assembly techniques, flight operations, and real-world applications.

The workshop combines theoretical concepts with extensive hands-on training in drone assembly, software configuration, calibration, troubleshooting, and flight practice. Participants will also gain awareness about drone regulations, safety protocols, and emerging opportunities in the drone industry.

The programme is designed to bridge the gap between academic learning and industrial applications by introducing students and faculty to the rapidly growing field of unmanned aerial systems (UAS).

RESOURCE PERSONS

Technical Team, Binford Research Labs Pvt Ltd

OBJECTIVES OF THE WORKSHOP

- To provide fundamental knowledge of drone technology, components, and aerodynamics.
- To introduce participants to drone assembly, programming, and flight operations.
- To provide hands-on training in calibration, testing, and troubleshooting of drones.
- To create awareness about drone regulations, safety norms, and industrial applications.

TOPICS TO BE COVERED

- Introduction to Drone Technology
- History and Evolution of Drones
- Types of Drones and Their Applications
- Drone Components and Working Principles
- Basics of Flight Dynamics and Aerodynamics
- Drone Software and Firmware
- Ground Control Station (GCS) Setup
- Drone Assembly and Wiring
- Sensor Integration and Calibration
- Flight Testing and Troubleshooting
- Real-Time Flight Training
- Safety Measures and Best Practices
- DGCA Regulations and Flight Zones
- Industrial Applications of Drones

OUTCOMES OF THE WORKSHOP

After completion of the workshop, participants will be able to:

- Understand the basics of drone systems, components, and flight principles.

- Assemble, configure, and calibrate a basic drone system.
- Perform basic flight operations and troubleshoot common issues.
- Apply knowledge of drone safety regulations and real-world applications.

ELIGIBILITY

PG students, research scholars, and faculty from Mechanical, ECE, EEE, CSE, Civil, Aerospace, AI&DS, Mechatronics, related branches.

GUIDELINES

Limited to 50 participants only. Eligible participants will be selected based on first come first serve basis and will be intimated by email only.

REGISTRATION

<https://forms.gle/a22BZtK5zuhn8a488>

FOR DETAILS CONTACT:

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