

AKSHAYA DRONE TECHNOLOGY CENTRE OF EXCELLENCE (ADT-CoE)

VISION

To be a premier Centre of Excellence in Drone Technology, fostering innovation, research, and industry-oriented education to develop globally competent engineers with strong technical competence and sustainable engineering practices for real-world applications.

MISSION

M1: Deliver industry-driven education through experiential learning and hands-on training in drone and autonomous aerial technologies.

M2: Promote innovation, applied research, and industry collaboration in drone systems to address real-world engineering challenges.

M3: Develop skilled professionals capable of creating sustainable drone solutions for societal, industrial, and environmental applications through continuous learning and emerging technologies.

OBJECTIVES

- To develop industry-ready professionals through hands-on training in drone design, operation, programming, and autonomous systems.
- To promote innovation, applied research, and product development through interdisciplinary projects and industry collaboration in UAV technologies.
- To enhance technical skills and foster entrepreneurship through certification programmes, workshops, and emerging drone technology applications.

OUTCOMES

- Students and professionals acquire practical skills in drone technologies, autonomous systems, and real-world applications
- Increased innovation, research publications, and development of UAV-based solutions through collaborative projects.
- Enhanced employability, entrepreneurial skills, and industry readiness through continuous learning and technology-oriented training.

The **Akshaya Drone Technology Centre of Excellence (ADT-CoE) at Akshaya College of Engineering and Technology (Autonomous)** has been established to bridge the gap between academic learning and industrial applications by providing hands-on training in drone design, assembly, programming, testing, and real-time aerial applications. The Centre enables students to acquire practical expertise in designing, developing, and building drones from concept to prototype while promoting innovation, research, and industry-oriented skill development. Through training and project-based learning, the Centre develops the technical competencies required for students to participate in national and international drone development challenges, competitions, and emerging UAV technology initiatives.

The Centre serves students from **Mechanical Engineering, Mechatronics Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Computer Science and Engineering, Artificial Intelligence and Data Science and Computer Science and Business Systems** promoting interdisciplinary learning through the following facilities:

- **Drone Design and Assembly Lab** enables students to design, assemble, configure, and test quadcopter drones using industry-standard components including flight controllers, BLDC motors, ESCs, GPS modules, communication systems, and payload integration.
- **Drone Programming and Flight-Testing Facility** provides practical exposure to flight controller programming, mission planning, autonomous navigation, FPV operation, payload handling, aerial imaging, GPS tracking, and real-time drone applications using customized quadcopters, FPV systems, display units, and tracking equipment.



Excellence in Higher Education

AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, Recognized by UGC and Affiliated to Anna University)

Accredited by NAAC | Accredited by NBA : UG programmes of CSE, ECE & CIVIL

Kinathukadavu, Coimbatore-642109. www.acetcbe.edu.in

AN AUTONOMOUS INSTITUTION



AKSHAYA DRONE TECHNOLOGY - CENTRE OF EXCELLENCE (ADT-CoE)

