COIMBATORE INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

JOINTLY WITH

IOT CENTRE & 5G INNOVATION CENTRE

Cordially Invites you to the inauguration of

ADS-B FLIGHT TRACKER

REAL-TIME AIRCRAFT SURVEILLANCE AND TRACKING USING ADS-B TECHNOLOGY

Funded & Mentored by
Mr. Sethu Rathinam B.E.,
M. Tech., M.S (EE)& M.B.A
(CIT B.E. ECE Alumnus Class of 1979)

Inaugurated by
Thiru. R. Santossh
Managing Trustee/Chairman
CIT Institutions

Principal

- Dr. A. Rajeswari
  CIT

Faculty Team

- Dr. M. Poongothai
  Professor & Head
- Dr. Akila I S
  Assistant Professor
  Department of ECE, CIT

Students Team
B.E.ECE, Class of 2026

- Aadharsh B
- Dharunprakash
- Nithiya Raj S

19.12.2025
Library building -2nd Floor [ECE]
2:00PM

Coimbatore Institute of Technology

Department of Electronics and Communication Engineering

ADS-B FLIGHT TRACKER

Automatic Dependent Surveillance - Broadcast (ADS-B) is a system that provides real-time aircraft visualization and tracking, by receiving ADS-B signals transmitted by aircraft. The signal contains airplane ID, GNSS position, altitude, and velocity broadcast at 1090 MHz. Our system collects the signals with a Narrow Band Antenna, decodes them with Software Defined Radio receiver connected to a Raspberry Pi computer and displays it.

RadarBox ADS-B FlightStick

ADS-B Antenna Mount Location

AirNav Radar Web Dashboard

Raspberry Pi 4 - Setup

HOW FLIGHT TRACKER WORKS?