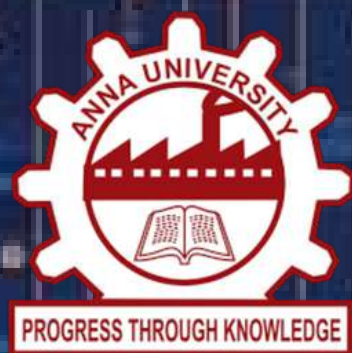




MADRAS INSTITUTE OF TECHNOLOGY
DEPARTMENT OF AEROSPACE ENGINEERING
ASSOCIATION OF AERONAUTICAL ENGINEERS



PRESENTS

FLIGHT-26

AVIONICS
WORKSHOP

REGISTER NOW



FOR MORE INFO



MIT



21 MARCH 2026



9:30 AM TO 4:30 PM

REGISTRATION FEE
Rs. 299/- ONLY

CONTACT :

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AVIONICS WORKSHOP

INTRODUCTION AND DESCRIPTION

Where Control Theory Meets Real Flight Intelligence

Step into the cockpit of advanced flight dynamics and discover how mathematics transforms into motion. This immersive workshop bridges the gap between theoretical control systems and real-time aircraft implementation using ADA programming — the backbone of safety-critical avionics software.

But this isn't just theory. You will simulate, analyse, and implement control laws inspired by real aircraft systems. From designing controllers to coding them in ADA, you'll gain insight into how modern aircraft maintain stability, precision, and reliability at 30,000 feet.

Whether you're passionate about flight control laws, avionics software, or next-generation autonomous aircraft, this workshop delivers practical exposure and implementation skills aligned with aerospace industry standards.

All participants will receive a printed worksheet and a certificate of participation.

OUTCOMES

Participants will explore:

- Introduction to Avionics
- Stability and controllability fundamentals
- State-space modelling of flight systems
- PID, LQR, and modern control strategies
- Real-time control implementation
- ADA programming for safety-critical aerospace systems
- Experiments with MatLab

SCHEDULE

TIMING	EVENT
09:30 AM - 10:30 AM	Introduction to Avionics and Scope
10:30 AM - 12:30PM	Basic control system.of Aircraft
12:30 PM - 01:25 PM	Lunch break
01:25PM - 02:30 PM	Advance Control Technique
02:30 PM - 4: 30 PM	Experiments with MATLAB

ALL PARTICIPANTS ARE REQUESTED TO BRING THEIR LAPTOPS AS YOU CAN DOWNLOAD THE REQUIRED APPLICATIONS AND WORK INDIVIDUALLY.

BASIC UNDERSTANDING OF CONTROL SYSTEMS ENGINEERING, FAMILIARITY WITH TRANSFER FUNCTIONS, BLOCK DIAGRAMS, STABILITY CONCEPTS (ROUTH, ROOT LOCUS, BODE PLOTS), BASIC STATE-SPACE REPRESENTATION

REGISTRATION FEE: INR 299/- PER HEAD (LUNCH WILL BE PROVIDED)

FOR ANY QUERIES, CONTACT:

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AVIONICS WORKSHOP



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Lat 12.948275° Long 80.139531°
05/04/2025 02:39 PM GMT +05:30

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