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

SCAN TO REGISTER

FOR MORE INFO

Presents

FLIGHT'26

MATLAB BOOTCAMP

MIT

March 22 2026

9.30 AM to 3.30 PM

FOR REGISTRATION
299/- PER HEAD

Contact:
DERRICK LOUIS
PHONE: 8610936434

PARTICIPANTS MUST BRING THEIR OWN LAPTOP

WITH AT LEAST MATLAB STUDENT VERSION
(We will help you download, please reach out to us

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MATLAB BOOTCAMP

INTRODUCTION AND DESCRIPTION

Flight 26 takes you from the basics of MATLAB programming to modeling real-world engineering systems such as mass-spring dynamics and rocket motion. Along the way, you will explore how mathematics transforms into simulation, how equations become visual motion, and how engineering problems can be solved using powerful computational tools.

The journey begins with understanding the core environment of MATLAB — learning how to write scripts, manipulate matrices, and visualize data. As the flight gains altitude, participants will model a simple mass-spring system, observing how physical laws like Hooke's Law translate into computational simulations. The experience continues into rocket design and trajectory analysis, demonstrating how MATLAB can be used in aerospace applications to simulate motion and analyse performance.

The second phase explores image processing techniques and introduces Simulink — a graphical platform that allows engineers to build and simulate dynamic systems visually. Participants will construct block diagrams, simulate system responses, and gain hands-on experience in system-level modelling.

OUTCOMES

Bythe end of the workshop, participants will learn:

- ·Basics of MATLAB programming
- ·Modelling a simple mass–spring system
- ·Rocket design concepts using MATLAB
- ·Introduction to Image Processing Toolbox
- Basics of Simulink for system simulation

SCHEDULE

TIMING	EVENT
09:00 AM – 09:45 AM	Inauguration
09:45 AM – 10:45 AM	Basics of MATLAB
10:45 AM – 11:30 AM	Simple mass spring system
11:30 AM – 12:30 PM	Rocket design using MATLAB
12.30 PM –0 1.25 PM	Lunch Break
01:25PM – 02:15 PM	Image processing toolbox
02:15 PM – 03:30 PM	Basics of Simulink

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(WE WILL HELP YOU DOWNLOAD, PLEASE REACH OUT TO US)
PARTICIPATION CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

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

FOR ANY QUERIES, CONTACT:

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