



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



REGISTER NOW



Presents

FLIGHT'26

**COMPOSITES
 WORKSHOP**

FOR MORE INFO



GAIN HANDS ON
 EXPERIENCE ON
 FABRICATION & TESTING

REGISTRATION FEE :
 499/-



**FOR BULK
 REGISTRATIONS
 AND OFFERS**
 (CONTACT : 8525984297)

**2 DAYS
 WORKSHOP**



MIT



March 21 & 22



10:00 AM

CONTACT :

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COMPOSITES WORKSHOP

INTRODUCTION AND DESCRIPTION

This composite workshop is structured to provide a complete A-to-Z understanding of composite part production and validation. The session begins with the Fabrication of Composites via the Hand Lay-Up Method, where participants will learn resin mixing, fiber wet-out techniques, and ply orientation. Following fabrication, we will move to Vacuum Bagging, demonstrating how to apply breather and bleeder plies, create a vacuum seal, and utilize negative pressure to consolidate laminates and remove excess resin. We will then introduce Curing Accelerators, explaining the chemistry behind hardening agents and how to manipulate gel time and exothermic reactions for faster turnaround without compromising structural integrity. A specialized demo on Shape Memory Polymer Composites will follow, showcasing smart materials that change shape under external stimuli. Finally, we will move to destructive testing using the Universal Testing Machine (UTM), performing tensile and flexural tests to interpret stress-strain curves, calculate modulus, and identify failure criteria of the samples manufactured during the workshop.

OUTCOMES

By the end of the workshop, participants will:

- Learn Composite Fundamentals
- Explore Engineering Applications
- Get Hands-on Fabrication Experience
- Create Your Own Composite Product
- Perform Mechanical Testing (UTM)
- Analyze Material Performance

PARTICIPATION CERTIFICATES WILL BE PROVIDED TO ALL PARTICIPANTS

REGISTRATION FEE: INR 499/- PER HEAD (LUNCH WILL BE PROVIDED)

FOR ACCOMADATION CONTACT US.

SCHEDULE: 21 MARCH

TIMING	EVENT
9:30 AM - 10:30 AM	Registration & Welcome Note
10:30 AM - 11:45 AM	Composite Laminate Fabrication
11:45 AM - 1.00 PM	Vacuum Bagging Technology
1.00PM - 2.00 PM	Lunch break
2.00 PM - 3.30 PM	Accelerated Curing Techniques
03:30 PM - 04:00 PM	Discussion & Q/A Engines

SCHEDULE: 22 MARCH

TIMING	EVENT
9:30 AM - 10:30 AM	Destructive Mechanical Testing
11:30 AM - 01:00 PM	Smart Materials in Action
11:45 AM - 1.00 PM	Vacuum Bagging Technology
1.00PM - 2.00 PM	Lunch break
02:00 PM - 03:00 PM	Certificate Distribution

FOR ANY QUERIES, CONTACT:

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COMPOSITES WORKSHOP

