



**FLIGHT-2022**

**MADRAS INSTITUTE OF TECHNOLOGY**

**DEPARTMENT OF AEROSPACE ENGINEERING**

**ASSOCIATION OF AERONAUTICAL ENGINEERS**

**COMPOSITE WORKSHOP - DAY 1**

**MAY 13, 2022**

## **Introduction**

Chances are they're in your flooring, your walls, your car, and even your bathtub. They're called composites. But what exactly are composites? What are their uses and why do they matter? If you've got these questions looming in your mind or if you'd like some surprising examples of composite materials, then you've come to the right place.

## **Description**

Aerospace and defense are just two of the many market segments that will see a large increase in the use of composite materials. It has many advantages but keeping in mind the cost efficiency, the repair procedure of the composite is preferred over the replacement or recycling of the same.

This workshop is designed to introduce students to fabrication of glass fiber composite by hand layup and compression mold method. We not only assure hands-on experience in repairing composite materials but also in-depth knowledge in testing composite for tensile and flexural strength.

## Schedule for the Workshop

- 09.00 am - 09.45 am : Inauguration.
- 09.45 am - 10:45 am : Introductory lecture on scope and advancements of composite material in various fields.
- 10.45 am - 11.00 am : Illustration of composite repair work done by professionals.
- 11.00 am - 12.30 pm : With the assistance of professionals, the participants repair the damaged composites.
- 12.30 am - 01.25 pm : lunch break
- 01.30 pm - 02.00 pm : Detailed lecture on composite fabrication and its different methodologies.
- 02.00 pm - 03.00 pm : Fabrication demonstration by 2 methods :
- 1) hand layup
  - 2) compression mold

## Outcome

On completion of this workshop, students will be able to :

1. Gain in-depth knowledge about composites and its fabrication process.
2. Hands-on experience in repairing and testing the composite material.

**Kit will be provided**

## Contact Details

For any queries regarding the event, feel free to contact the organizers.

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