



FLIGHT-2022

MADRAS INSTITUTE OF TECHNOLOGY

DEPARTMENT OF AEROSPACE ENGINEERING

ASSOCIATION OF AERONAUTICAL ENGINEERS

CAD/CAE WORKSHOP - DAY 1

MAY 13, 2022

Introduction

"Design is thinking made visual"

Computer-aided design (CAD) is the use of computers to aid in the creation, modification, analysis, or optimization of a design. These software are used to increase the productivity of the designer, improve the quality of design, improve communications through documentation, and to create a database for manufacturing. Designs made through CAD software are helpful in protecting products and inventions when used in patent applications. CAD output is often in the form of electronic files for print, machining, or other manufacturing operations.

Description

In order to manufacture a component for any type of application in an industry R&D plays a major role, Designing a part and analysis of it in computer simulations can save a lot of expenses.

This workshop is crafted in order to make students understand the purpose of designing software like CATIA with industrial operations like GD&T. The simulation of the design can be analyzed for real time parameters in XFLR5

Schedule for the Workshop

- 10:00am - 10:45am :- Introduction on workshop
- 10:45am - 11:30am :- XFLR5
- 11:30am - 12:15pm :- GD&T
- 12:15pm - 12:30pm :- CATIA
- 12:30pm - 01:25pm :- Break
- 01:25pm - 02:00pm :- CATIA & ANSYS
- 02:00pm - 03:00pm :- ANSYS
- 03:00pm - 04:00pm :- Conclusion and reserve time

Outcome

After completion of the workshop students will be able to

1. Understand the importance of CAD/CAE software and their applications in Manufacturing/Production and R&D
2. Understand how to approach a design problem based on industrial standards.

Contact Details

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

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