

# **CENTRE FOR CAE**

**(Supported by Altair University & Autodesk)**

## **ABOUT**

A "Centre for Computer-Aided Engineering" Technology centre is supported by ALTAIR University Global Academic program and AUTODESK. It is a specialized facility dedicated to advancing the field of computer-aided engineering (CAE). This centre serves as hubs for research, development, and innovation in CAE technology. They bring together experts, engineers, and researchers to collaborate on cutting-edge projects, improve simulation and modelling techniques, and develop software tools for engineering analysis and design. This centre play a vital role in enhancing the efficiency and accuracy of engineering processes across industries such as automotive, aerospace, civil engineering, and more. They serve as a catalyst for the advancement of CAE, driving innovation and knowledge dissemination in the field.

## **OBJECTIVE**

- Understand and interpret drawings of machine components
- Prepare assembly drawings using standard CAD packages
- Gain practical experience in handling 2D drafting and 3D modeling software systems
- Comprehend, design, analyze, and suggest novel materials, products and solutions for the contemporary manufacturing issues.

## **INDUSTRY SUPPORT**

1. ALTAIR University
2. AUTODESK

## **CENTRE HEAD:**

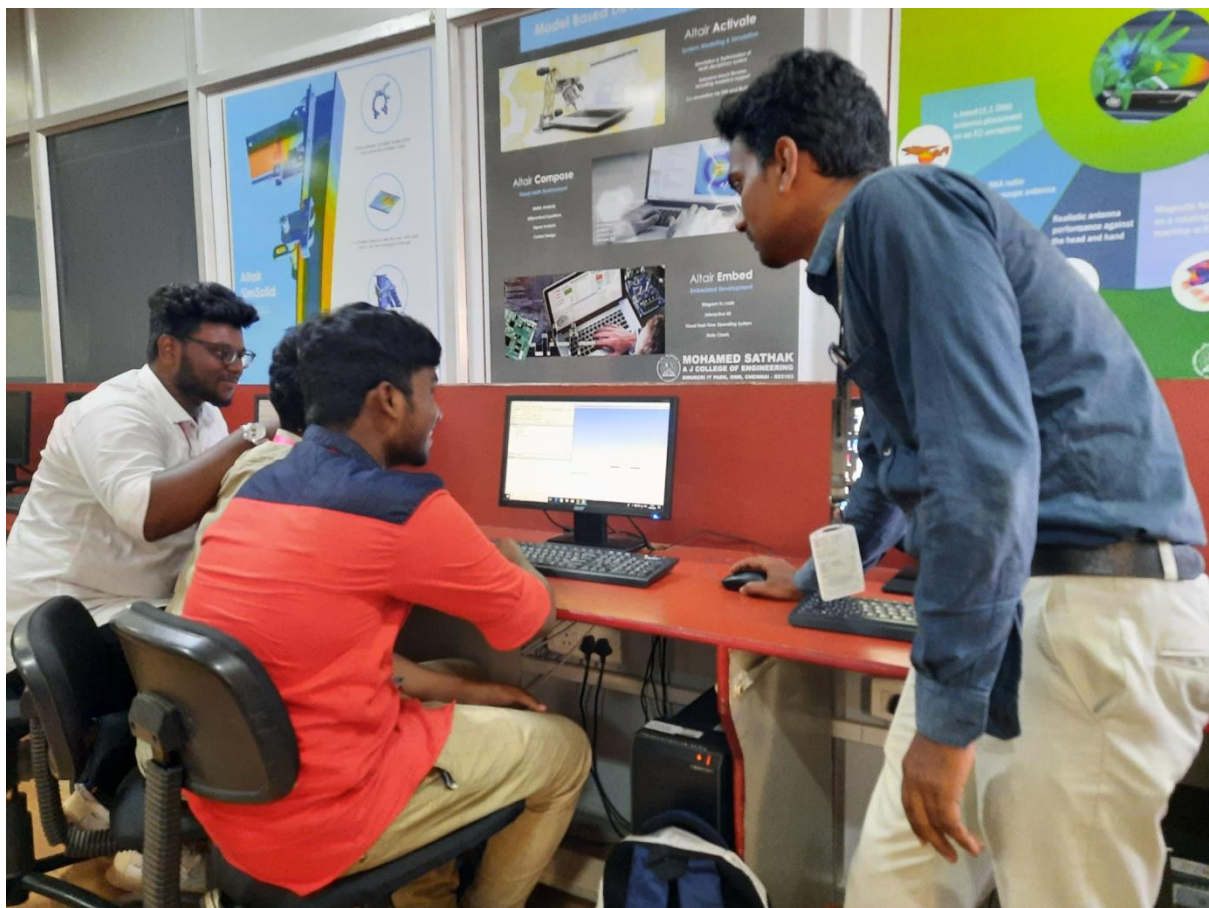
**Mr.S R Mohan M.E- Assistant Professor/Mechanical**

## **OUTCOME**

- Develop CAD models for hyper mesh
- Import and Export CAD data and generate .hm file
- Attain accurate and high quality meshes in 1D, 2D and 3D elements.
- Carryout the Linear Static Analysis
- Carryout the Dynamic Analysis

## CERTIFICATIONS:

| Centre Name    | Academic Year | Semester | Course Name                                  | Certification | No of students | Total No of students |
|----------------|---------------|----------|----------------------------------------------|---------------|----------------|----------------------|
| Centre for CAE | 2022-23       | Odd      | Advanced Machining Process                   | NPTEL         | 5              | 185                  |
|                | 2022-23       | Odd      | QCAD                                         | IIT Bombay    | 6              |                      |
|                | 2022-23       | Odd      | OpenFoam Version 7                           | MSAJCE        | 18             |                      |
|                | 2021-22       | Even     | OpenFoam Version 7                           | MSAJCE        | 9              |                      |
|                | 2019-20       | Even     | CNC Machining                                | MSAJCE        | 27             |                      |
|                | 2019-20       | Odd      | CATIA                                        | MSAJCE        | 44             |                      |
|                | 2019-20       | Odd      | CREO Harner Design GD & T Industria Standard | MSAJCE        | 76             |                      |





## Certificate Of Completion



# 1, 1st Floor, Beteson's Complex  
Ramasamy Street, West Tambaram  
Chennai-600 045.

This is to certify that Mr./Ms. **MOHAMED IRFAN.A**.....

has successfully completed the professional training program

on..... **CATIA** .....

at **Mohamed Sathak AJ College of Engineering**.....

Period : from **03-12-2019** to **09-03-2020**.....

grade : **A** Student ID No: **ACS202067**.....

Date : **09-03-2020**

  
Managing Director



## Certificate for Completion of OpenFOAM version 7 Training

This is to certify that **AAYATHUL MUFARAK A** has successfully completed **OpenFOAM version 7** test organized at **Mohamed Sathak A.J College of Engineering** by **Vigneshwaran V** with course material provided by the Spoken Tutorial Project, IIT Bombay. Passing an online exam, conducted remotely from IIT Bombay, is a pre-requisite for completing this training.

**Chintala Venkatesh** from **Mohamed Sathak A.J College of Engineering** invigilated this examination. This training is offered by the Spoken Tutorial Project, IIT Bombay.

June 29th 2022

  
Prof. Kannan M Moudgalya  
IIT Bombay




**MOHAMED SATHAK**  
**A.J. COLLEGE OF ENGINEERING**  
 Siruseri IT Park, OMR, Chennai - 603 103.



**Certificate of Completion**

This is to certify that Mr. Aadil T, II Year Mechanical student of Mohamed Sathak A J College of Engineering, Chennai has successfully completed the training program on **"3D Modelling using CATIA"** from August 2022 to November 2022. Conducted by Centre for Computer Aided Engineering, Department of Mechanical Engineering.

  
**Mr.K.K.Vinothkumar**  
 Course Co - ordinator

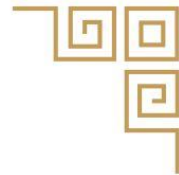
  
**Dr.S.Prasath**  
 Head of the Department

  
**Dr. I. Manju**  
 Head - Technology Centre & Industry Relations

  
**Dr. K.S. Srinivasan**  
 Principal



**MOHAMED SATHAK**  
**A.J. COLLEGE OF ENGINEERING**



**CERTIFICATE OF APPRECIATION**


This is to certify that

AAYATHUL MUFARAK A -III Year Mechanical

has successfully completed the Skill Development Course on **"Hypermesh"** from 23<sup>rd</sup> August to 10<sup>th</sup> December 2021 under Centre for CAE, Department of Mechanical Engineering, Mohamed Sathak A J College of Engineering, Chennai.

  
 COURSE COORDINATOR

  
 HOD-MECH

  
 HEAD-TC & IR

  
 PRINCIPAL





# MOHAMED SATHAK

## A.J. COLLEGE OF ENGINEERING



### CERTIFICATE OF APPRECIATION

This is to certify that

BALAJI J -III Year Mechanical

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from 23<sup>rd</sup> August to 10<sup>th</sup> December 2021 under Centre for CAE, Department of  
Mechanical Engineering, Mohamed Sathak A J College of Engineering, Chennai.

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