



Faculty Development Program



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Title : CFD TOOL FOR ACADEMIC RESEARCH - AN INTRODUCTION

Event Outcome

- Gain a basic knowledge in applying ICEMCFD tool for the generation of hexahedral elements

Date : 2025-09-11 - 2025-09-11

Time : 11:45 - 13:15

Venue : TT 707



Resource Person 1 - Details

Name : Thundil Karuppa Raj R

Designation : Professor Higher Academic Grade, School of Mechanical Engineering

University/ Company : VIT, Vellore

Address : India, 632014.

Resource Person's Profile :

1. Profile of Thundil Karuppa Raj R

Prof. R. Thundil Karuppa Raj is the Professor HAG in the school of Mechanical Engineering and he has relevant industrial experience in the field of CFD

Computational Fluid Dynamics has emerged as a vital tool in academic research, enabling detailed analysis and simulation of fluid flow phenomena across various disciplines, including engineering, physics, and environmental sciences. This introductory session presents an overview of CFD tools tailored for academic applications, highlighting their capabilities, underlying numerical methods and practical relevance. The use of ICEMCFD tool in domain discretization for capturing boundary layer concepts will be dealt in the session. The application of ICEMCFD tool for capturing various internal and external flows will be dealt in brief.

ANSYS ICEMCFD Tool

Coordinator: Teaching Learning Centre of Excellence, VIT, Vellore