

CENTRE FOR COMPUTATIONAL DYNAMICS

Centre for Computational Dynamics is established to reflect the wide applications of computational dynamics as there is an increasing demand for CFD specialists with practical and technical knowledge. The centre is aimed in research on engineering problems in many fields of study and industries, including aerodynamics and aerospace analysis, weather simulation, natural science and environmental engineering, industrial system design and analysis, biological engineering, fluid flows and heat transfer, and engine and combustion analysis.

This centre engages to meet the education needs of graduates and professional engineers who are looking to kick-start an industrial or research career in the rapidly growing field of computational dynamics. It bridges the gap between the introductory level of undergraduate courses and the applied expertise acquired by engineers using Computational Dynamics in industry.

Thrust Areas

- ANSYS
- Open FOAM
- Sim scale
- ExaPower Flow
- COMSOL
- CFD-AUTODESK
- Flow -3D

Application Domains

- Fluid flow and Heat transfer
- Engine and Combustion analysis
- Aerodynamics and aerospace analysis
- Weather Simulation
- Natural Science and Environmental Engineering
- Industrial System Design and Analysis
- Biological Engineering

Projects 2020-21

| Title of the Project | Roll No. | Name of the Student |
|--------------------------|------------|----------------------------|
| Perpetual motion machine | 17N31A0398 | CHINTHAMALLA VENU |
| | 17N31A03A5 | MATTELA SAI SRI HARI CHARY |
| | 17N31A03A6 | MAYMULA BHUPAL REDDY |