

Computational Fluid Dynamics Laboratory (CFD Lab)

About the Laboratory

The purpose of the **CFD Lab** is to provide an independent and adequate computing environment for diverse large scale simulation projects that involve **fluid dynamics and heat transfer**. Led by **Dr N K Singh**, the members of the CFD lab include PG and doctoral students. A variety of analysis and design optimization problems are numerically simulated and graphically visualized by the members of the lab. Advanced numerical techniques used include **Large Eddy Simulation (LES)** and **Direct Numerical Simulation (DNS)** for simulating transitional and turbulent flows. The CFD Laboratory is currently equipped with Intel Xeon workstations. The users have access to a variety of public domain and commercial software packages such as **ANSYS CFD 2019 R1** and **Tecplot 360**.

Faculty In-Charge

Dr. N. K. Singh

Technical Staff

Ms. Anita Rani

Laboratory Courses

Course Code	Course Name	Programme
MME3L02	Computational Fluid Dynamics Lab	M.Tech. / Ph.D.
MME2L02	Soft Computing Lab	M.Tech. / Ph.D.

Major Equipment and Software

Equipment / Software	Quantity / Access	Utilization
ANSYS CFD 2019 R1	Institute-wide Server Access	B.Tech. / M.Tech. / Ph.D.
Dell Workstations	08	B.Tech. / M.Tech. / Ph.D.

Laboratory Photographs

