

HANDS-ON WORKSHOP

Ansys Workshop & Competition
On Electric Vehicle Motor,
Battery Management System
& Thermal Management



21st-22nd July 2026
10:00 AM - 05:00 PM



Electric machines and drives lab (Rampur hall),
IIT-BHU

Join us for an engaging workshop and student competition focused on the latest advancements in EV motor, Battery Management Systems and thermal management. The program will provide practical insights into Maxwell, SCADE and IcePak strategies for simulation-driven Engineering accelerates research, innovation, and product development. Designed for students, researchers, and faculty, the workshop combines expert technical sessions with hands-on learning to strengthen industry-relevant engineering skills.



REGISTER NOW

HIGHLIGHTS

- > Hand's on Workshop on EV Motor using Ansys Maxwell
- > Hand's on workshop on Battery Management System using SCADE
- > Hand's on Workshop on IcePak for Thermal Management

WHO SHOULD ATTEND

- > UG Students
- > PG Students
- > PhD Students

AGENDA (21st July)

	● Introduction to Ansys Maxwell FEM-based electromagnetic simulation overview and applications
10:00 AM - 01:00 PM	● Applications of simulation in electric motors and power electronics system analysis ● Hands-On with Ansys Maxwell Basic electromagnetic simulation example using Maxwell 2D/3D
01:00 PM - 02:00 PM	● Lunch Break
02:00 PM - 05:00 PM	● Battery Management Systems - Overview ● Introduction to Model-based development & Ansys SCADE ● Demo - Battery Management System

AGENDA (22nd July)

10:00 AM - 01:00 PM	● Basics - Heat transfer, CFD, ● Icepak user interface ● Defining domain & BCs, Assigning material properties, Meshing, Solver setup ● Control flow modelling
01:00 PM - 02:00 PM	● Lunch Break
02:00 PM - 05:00 PM	● Student competition

SPEAKERS



Adithya Battu
Application Engineer
CADFEM India



Sujith Kudupudi
Application Engineer
CADFEM India



Arindam Pal
Application Engineer
CADFEM India

CO-ORDINATOR —



Prof. Kalpana Chaudhary
Professor
IIT BHU

