CADFEM Ansys / ELITE CHANNEL PARTNER

The Institution of Engineering and Technology

Mahindra University
Global Thinkers. Engaged Leaders.

ÉCOLE CENTRALE SCHOOL OF ENGINEERING

EV Sector Focused

Leveraging Ansys Solutions for Electric Vehicle Development

21 - 22 March 2024

10:00 AM to 05:00 PM

Mahindra University Campus

CLICK TO REGISTER

The Workshop on Leveraging Ansys Solutions for Electric Vehicle Development offers a comprehensive exploration of Ansys tools and methodologies crucial for designing and optimizing electric vehicles. Participants will gain practical insights into electromagnetic solvers, power electronic modeling, drive circuit implementation, battery and thermal modeling, safety-critical system analysis, ISO26262 compliance, and model-based embedded software development using Ansys SCADE. Through hands-on sessions and demonstrations, attendees will acquire essential skills and knowledge to accelerate electric vehicle development while ensuring safety, reliability, and performance compliance with industry standards.

Highlights

- Gain insight into Ansys' powerful electromagnetic solvers and their applications in electric vehicle development.
- Delve into battery modeling techniques and thermal modeling of battery packs, essential for understanding and optimizing electric vehicle battery systems.
- Understand the model-based approach for embedded software development using Ansys SCADE

Who Should Attend

- Students
- Professors
- Researcher Scholars

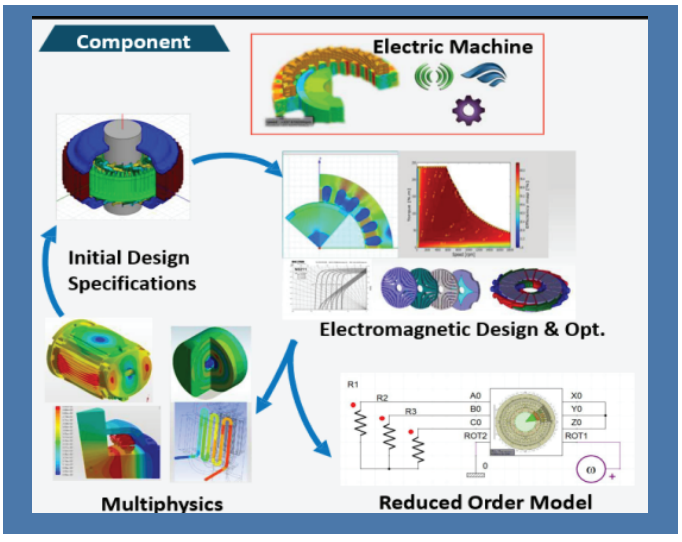
AGENDA	Day 1 : 21 March 2024	TIMING
• **Introduction to Ansys Electromagnetic Solvers** • **Demonstration of PExprt for modeling power electronic transformers and Inductors - Hands-on** Vidyabharati Ippili, Application Engineer, CADFEM India		**10:00 AM - 12:00 PM**
BREAK		**12:00 PM - 01:00 PM**
• **Implementing drive circuit topologies in Maxwell circuit editor - Hands-on** • **Extraction of ROM from Maxwell** • **Co-simulation of ROM with simplorer** Vidyabharati Ippili, Application Engineer, CADFEM India		**01:00 PM - 03:45 PM**
BREAK		**03:45 AM - 04:00 PM**
• **Introduction to Battery Modelling, and Thermal Modelling of Battery Pack** Sharjad A J, Application Engineer, CADFEM India		**04:00 AM - 05:00 PM**

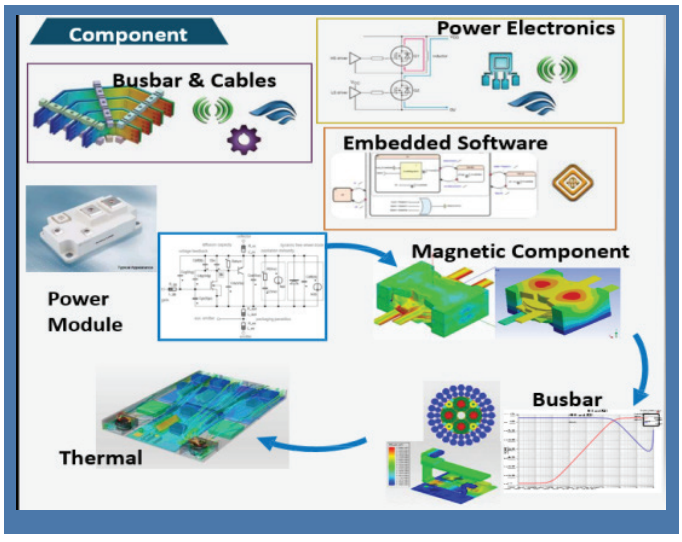
AGENDA	Day 2 : 22 March 2024	TIMING
▪ What is safety critical system ▪ what is ISO26262 ▪ Workflow of ISO26262 ▪ Hands on Ansys medini analyze - on Braking control systems ▪ How to perform multiple safety analysis in compliance with ISO26262 Harsh Kumar Singh, Application Engineer, CADFEM India		10:00 AM - 12:00 PM
BREAK		12:00 PM - 01:00 PM
▪ What is a model based approach for embedded software development ▪ What is Ansys SCADE ▪ Learning different operators in Ansys SCADE ▪ Hands on experence in creating and generating code for Mannual Car transmission in Ansys SCADE Harsh Kumar Singh, Application Engineer, CADFEM India		01:00 PM - 03:45 PM

Vidyabharati Ippili
Application Engineer
CADFEM India

Sharjad A J
Application Engineer
CADFEM India

Harsh Kumar Singh
Application Engineer
CADFEM India





Co-Ordinators:
IET-MU Chairman: C Deepyash Varma
IET-MU Vice-Chairman Prachi Kansal
Registration: Free for IET Members, Others INR. 100
Email: deepyash20ueee006@mahindrauniversity.edu.in
+91 96768 71043; +91 87007 19810

Faculty Mentor:

Dr. Sreedhar Madichetty,

Electrical and Compueter Engineering Department, Mahindra University , Hyderabad

Last Date to Apply: 20th March 2024

FOR ENQUIRES

+91-9849998435 marketing@cadfem.in www.cadfem.in

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