

CADFEM

Ansys / ELITE
CHANNEL PARTNER



Ansys Multiphysics

01 Week Hands-on Workshop

Organized By:

**Centre of Excellence on Machine Tools Design (CoEMTD)
IIT (BHU) Varanasi**

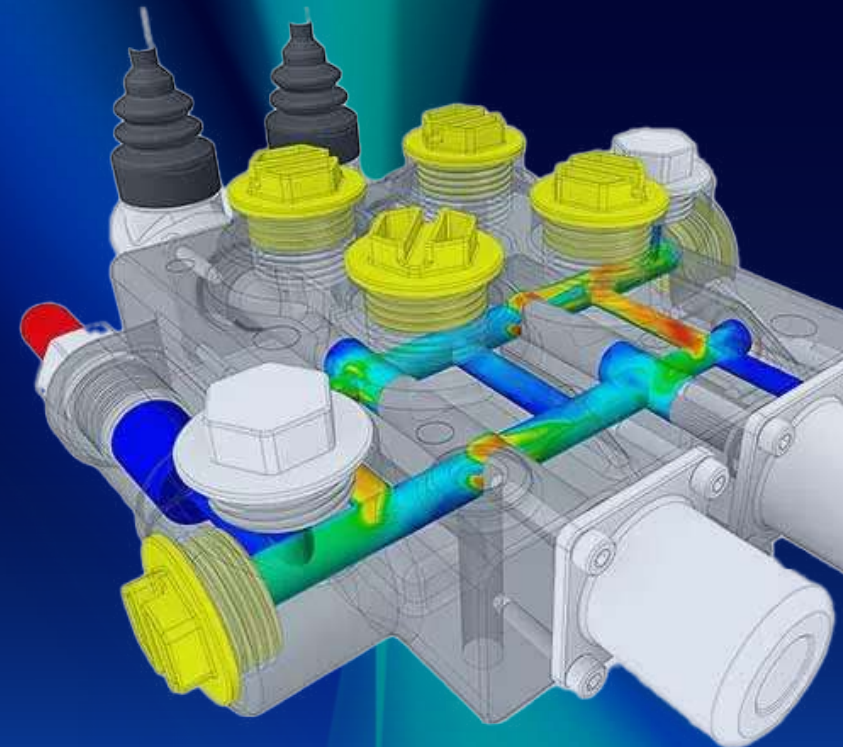
CADFEM India is hosting a comprehensive five-day hands-on workshop, hosted in collaboration with Centre of Excellence on Machine Tools Design (CoEMTD), IIT (BHU) Varanasi. Each day of the workshop will be dedicated to a distinct area of simulation, including Computational Fluid Dynamics (CFD), Structural Analysis, Electromagnetics, Optics and Photonics. Participants are welcome to attend any or all of the daily sessions, based on their individual interests. These workshops aim to provide an extensive and up-to-date understanding of each topic, equipping attendees with valuable insights and practical knowledge in the field of simulation.



28th July - 01st Aug 2025



Centre of Excellence on Machine Tools Design (CoEMTD)
IIT (BHU) Varanasi, Uttar Pradesh 221005

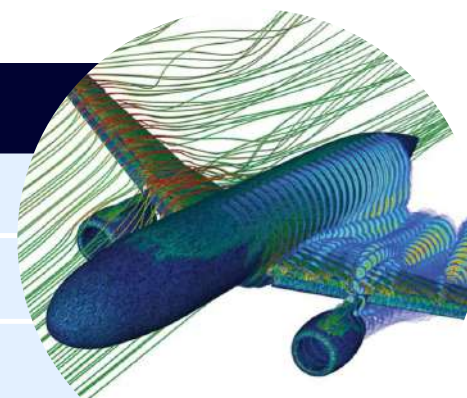


DAY 01

28th July 2025

Ansys CFD Hands-on Workshop

Time	Topic
10.00 AM – 10.30 AM	Inauguration
10.45 AM – 11.15 AM	Introduction to Ansys Multiphysics
11.15 AM – 11.30 AM	Break
11.30 AM – 01.00 PM	Introduction to Ansys CFD for Aero-Mech application
01.00 PM – 02.00 PM	Lunch Break
02.00 PM – 03.00 PM	Hands-on Workshop –Generating Poly-Hexcore mesh in Ansys Fluent Watertight Work flow
03.00 PM – 04.00 PM	Hands-on Workshop -External Aerodynamic Simulation using Ansys Fluent Aero Interface
04.00 PM – 04.15 PM	Break
04.15 PM – 06.00 PM	Hands-on Workshop -CFD & DEM coupling with Ansys Rocky & Fluent



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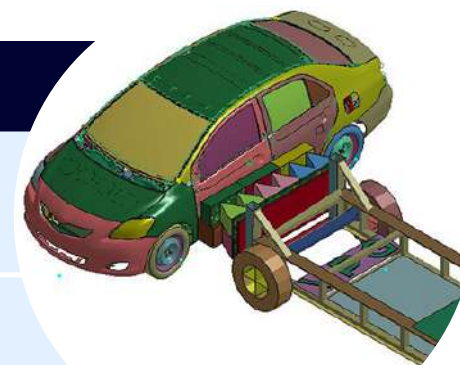
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DAY 02

29th July 2025

Ansys Structure Hands-on Workshop

Time	Topic
10.00 AM – 11.30 AM	Introduction to Ansys Mechanical for Structural Applications
11.30 AM – 11.45 AM	Break
11.45 AM – 01.00 PM	Introduction to LS-Dyna for Explicit simulations
01.00 PM – 02.00 PM	Lunch Break
02.00 PM – 03.45 PM	Hands-on workshop -Linear dynamic analysis of automotive component using Ansys Mechanical
03.45 PM – 04.00 PM	Break
04:00 PM – 06.00 PM	Hands-on workshop -Impact Analysis using Ansys LS-Dyna



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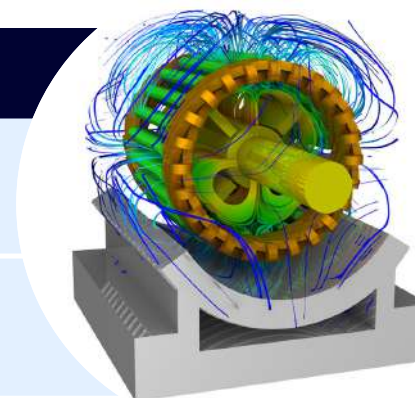
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DAY 03

30th July 2025

Ansys Low Frequency Hands-on Workshop

Time	Topic
10.00 AM – 11.00 AM	Introduction to Ansys MotorCAD and Ansys Maxwell for Electromagnetic Applications
11.00 AM – 12.30 PM	Modelling of an Induction Motor using Ansys Motor CAD (Hands-on)
01.00 PM – 02.00 PM	Lunch Break
02.00 PM – 03.00 PM	FEA analysis of Induction Motor in Ansys Maxwell
03.00 PM – 04.30 PM	Modelling of Electromagnetic Actuator in Ansys Maxwell (Hands – on)
04.30 PM – 04.45 PM	Break
04.45 PM – 06.00 PM	Modelling of Wireless charging modules in Ansys Maxwell (Hands-on)



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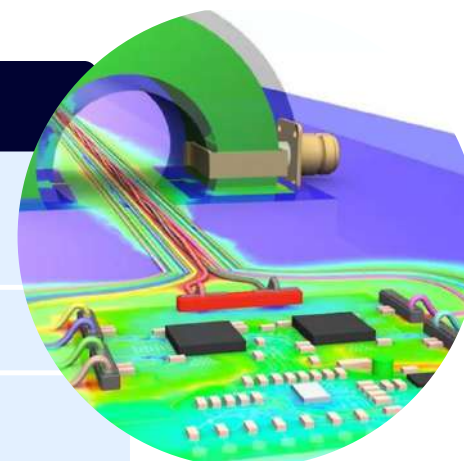
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DAY 04

31st July 2025

Ansys High Frequency Hands-on Workshop

Time	Topic
10.00 AM – 11.30 AM	Introduction to Ansys HFSS for Electronics & Communication Applications
11.30 AM – 11.45 AM	Break
11.45 AM – 01.00 PM	Introduction to Ansys SIwave and Multiphysics Simulations Application
01.00 PM – 02.00 PM	Lunch Break
02.00 PM – 03.00 PM	Hands-on Workshop: High-Frequency 5G Antenna Modelling and Simulation Using Ansys HFSS
03.00 PM – 03.15 PM	Break
03.15 PM – 04.30 PM	Hands-on Workshop: Signal Integrity & Power Integrity Analysis of PCBs Using Ansys SIwave
04.30 PM – 05.00 PM	Q&A and Open Discussion



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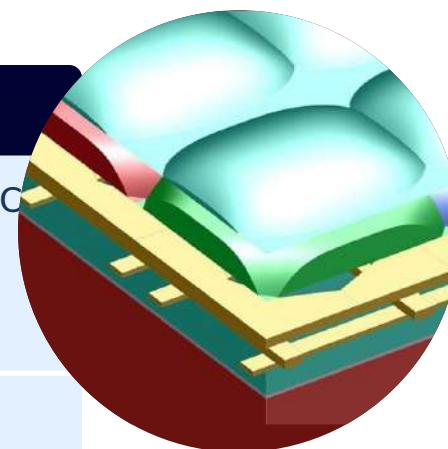
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DAY 05

01st Aug 2025

Ansyz Photonic & Optics Hands-on Workshop

Time	Topic
10.00 AM – 11.30 AM	Ansyz Lumerical-Unlocking the power of photonics - PIC to Quantum applications Hands on Demo: Thin Film Lithium Niobate Electro-Optics Phase Modulator for PIC
11.30 AM – 11.45 AM	Break
11.45 AM – 01.00 PM	Introduction to Optical System Design and simulations using Ansys Zemax OpticStudio.
01.00 PM – 02.00 PM	Lunch Break
02.00 PM – 03.30 PM	Hands-on Workshop -Analyzing Temperature Sensitivity in FBG Sensors Using Lumerical Simulations
03.30 PM – 04.00 PM	Break
04.00 PM – 05.30 PM	Hands-on Workshop –Design and validate a camera at system level



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