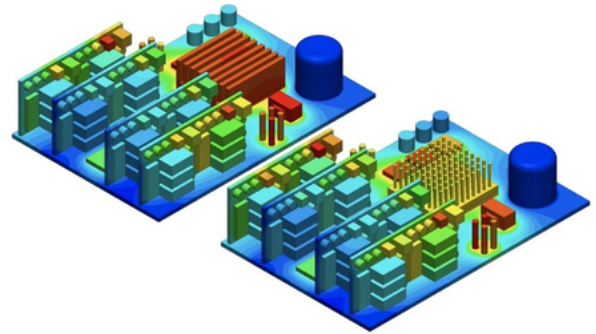
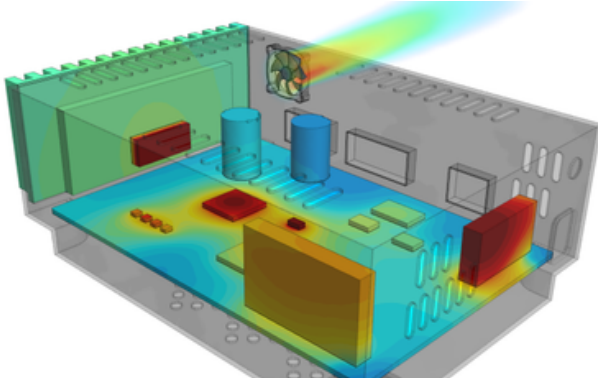




BMS Institute of Technology and Management
An Autonomous Institute under VTU Accredited by NBA and NAAC ('A' Grade)

Department of Mechanical Engineering



Open Course on Electronics and PC Cooling Simulation and Analysis Using CFD Tool

Electronic device like Sensors, Actuators, Battery, Microcontrollers and Computers are the core elements of today's automated and sophisticated applications and processes. Performance density (work efficiency per size) of these devices have been increased extensively from day-to-day. Due to the compact and miniature size and extensive efficiency, they are tending to generate excessive heat during their working. While designing such components thermal analysis for their functionality and stability is most essential. Computational Fluid Dynamics is the technique used for non-destructive testing and simulation of such systems. The course is intended to provide the knowledge and hands-on skill on application of Ansys -FLUENT a popular industrial tool used for such simulations and analysis.

Venue: CAMD Lab, 2nd Floor,
Academic block

Date: 12th to 16th June 2023

Time: 8.30 am to 4.30 pm

**Open Course to enhance analytical
skills with Computational Fluid
Dynamics and Electronics Cooling**

COORDINATORS

Dr. Ravichandra K R
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9611338626

CONVENER

Dr. H K Govindaraju
Professor and HoD

REGISTER NOW!

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Registration Fee: ₹400/-

REGISTRATION DETAILS

1. Login into: <https://bmsitm.gnums.in>
2. Go to Menu Fee->other Fee
3. Select the Fee Head as Open Course fee and pay



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 AVALAHALLI, YELAHANKA, BENGALURU-560064

Department of Mechanical Engineering
Electronics and PC Cooling Simulation and Analysis Using CFD Tool

2022-2023

Sl No.	Date	Topics Covered	Topics Covered	Topics Covered	Topics Covered	Assessment and Feedback
1	12.06.2023	Inauguration, keynote address	10:30 to 10:50 PM	10:50 to 12:50 PM	12:50 to 1:50 PM	4:00 to 4:30 PM
2	13.06.2023	Basics of Thermodynamics and Heat Transfer applied in cooling mechanism	TEA BREAK	Introduction to CFD Technique	LUNCH BREAK	Heating and Cooling Problems in Electronic Devices and Applications
3	14.06.2023	Simulation and Cooling Analysis of Electronics PCB - Part 1		Hands-on learning on 3D modelling of Electronic System		Hands-on learning on 3D modelling of a Battery Pack
4	15.06.2023	Simulation and Cooling Analysis of Battery Pack - Part 1	Passive Cooling Simulation using Phase Change Material – Part 1	Simulation and Cooling Analysis of Electronics PCB - Part 2	Simulation and Cooling Analysis of Battery Pack - Part 3	Simulation and Cooling Analysis of Electronics PCB - Part 4
5	16.06.2023	Simulation using Phase Change Material – Part 1		Simulation and Cooling Analysis of Battery Pack - Part 2		Simulation and Cooling Analysis of Battery Pack - Part 3
Valedictory						