



*Professional Development Program*

# **ELECTRIC VEHICLE DEVELOPMENT**

## **DAY 1: 20 APR 2023**

- EV Configurations
- Vehicle Dynamics
- ICE Basics (in view of EVs)
- Powertrain Sizing & Selection
- Electric Machine Sizing & Selection
- Transmission Modelling & Selection
- Battery Basics
- Drive Cycles
- Battery Sizing & Selection
- Regenerative Braking
- Hybrid Vehicle Modes & Controls
- Power Electronics

**20 – 22 Apr 2023**

**HOTEL REGENTA PLACE,  
Bangalore**

## **DAY 2: 21 APR 2023**

- MBSE for EVs
- Battery Modeling and Developing BMS
- Design and Implementation of Motor Control Algorithms
- Thermal Management of Batteries with Multiphysics Simulation

## **DAY 3: 22 APR 2023**

- Battery Testing
- Cell Balancing
- Charging Levels & Infrastructure
- BMS Software Functional Safety analysis
- EV Policy and Regulations (India Context)



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# SPEAKERS



**Mr. Abhisek Roy**  
Senior Application Engineer  
MathWorks



**Mr. Balaji Pillai**  
Cluster Leader for Hardware Communication  
Interfaces  
Vitesco Technologies (India) Pvt. Ltd



**Mr. Gaurav Dubey**  
Principal Application Engineer  
MathWorks



**Mr. Madhu Kiran Koor**  
Senior Application Engineer  
ANSYS



**Dr. Pallavi Bharadwaj**  
Assistant Professor, Electrical  
Engineering, IITG



**Mr. Prasanna Deshpande**  
Application Engineering Manager  
MathWorks



**Mr. Ramanuja Jagannathan**  
Senior Application Engineer  
MathWorks India



**Mr. Ramesh Krishnan Narayanan**  
Founder Director  
MAXEYE TECH



**Ms. Reshmi Raghavan**  
Senior Technology Specialist  
ANSYS



**Dr. Rustam Shekhar**  
Global support & Senior Applications  
Engineer (Electrochemistry), COMSOL, Inc.



**Mr. Thirumalai**  
Sector Head - Computational Tools &  
Project Management at Center for Study  
of Science, Technology and Policy



**Convenor & Speaker**

**Mr. Vijai Gopalakrishnan**  
Engineering Group Manager - Vehicle Engineering  
Design Operations, TCS-GM Partnership

## Registration

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