



**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

### 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)

## 20 – 22 Apr 2023

HOTEL REGENTA PLACE,

Bangalore

## www.saeindia.org

## 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 Kovoor 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

### Registration

SAEINDIA Member	Rs. 9,000+ GST
Non-Member *	Rs. 11,000+ GST
Student Member	Rs. 6,000+ GST



Convenor & Speaker

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

## **Register Now**

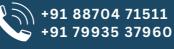
#### \* Non-Member Delegate gets One Year Free Membership

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https://saeindia.org/EVDevelopment