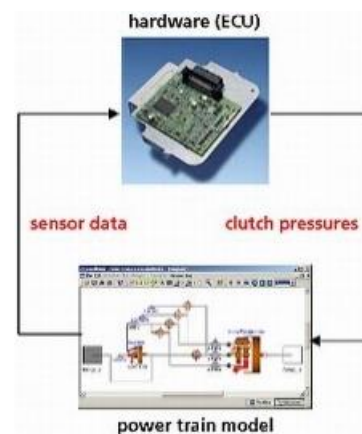**16 Hours ADVANCED Training on**

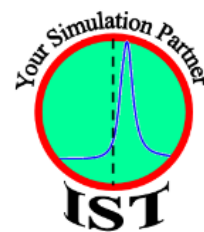# Plant Model for RT Simulation in GT-SUITE – FRM & MVEM

Case Study

Practice

Access to Live Videos

IST Pvt Ltd

**EV, HEV & Engine Development
Staff Augmentation
Corporate Training**

Agenda Overview

This training module is designed for the experienced GT-SUITE users from corporate and individual engineers who are interested to prepare Fast Running Model (FRM) and Mean Value Engine Model (MVEM) in GT-SUITE. These FRM & MVEM plant models are used for real time (RT) simulation in SiL & HiL for various purposes such as ECU development & calibration, thermal management, vehicle performance, fuel economy & drivability, aftertreatment, transmission shift quality, durability. Detailed training agenda is mentioned below.

❑ **FRM & MVEM**

- ✓ Why FRM and MVEM; and their applications
- ✓ Conversion of a detailed GT-POWER engine model into an FRM (controllers included)
- ✓ Neural network approach
- ✓ Conversion of a detailed GT-POWER engine model into a MVEM (controllers included)
- ✓ Calibration techniques for both FRM & MVEM
- ✓ Heat transfer consideration
- ✓ Transient simulation
- ✓ Application of the same concepts for different sub-systems such as engine, cooling, vehicle drivetrain, etc
- ✓ Post-processing using GT-POST
- ✓ Input and output signals transfer validation Simulink

Training Fees

Category	Training Fees per participant (Rs.)
Company Sponsored	15,000.00
Individual Sponsored	13,000.00

For registration, please contact us:

- E-Mail ID: subir.mandal@integratedsimtech.com
- Contact No.: +91-9763909935
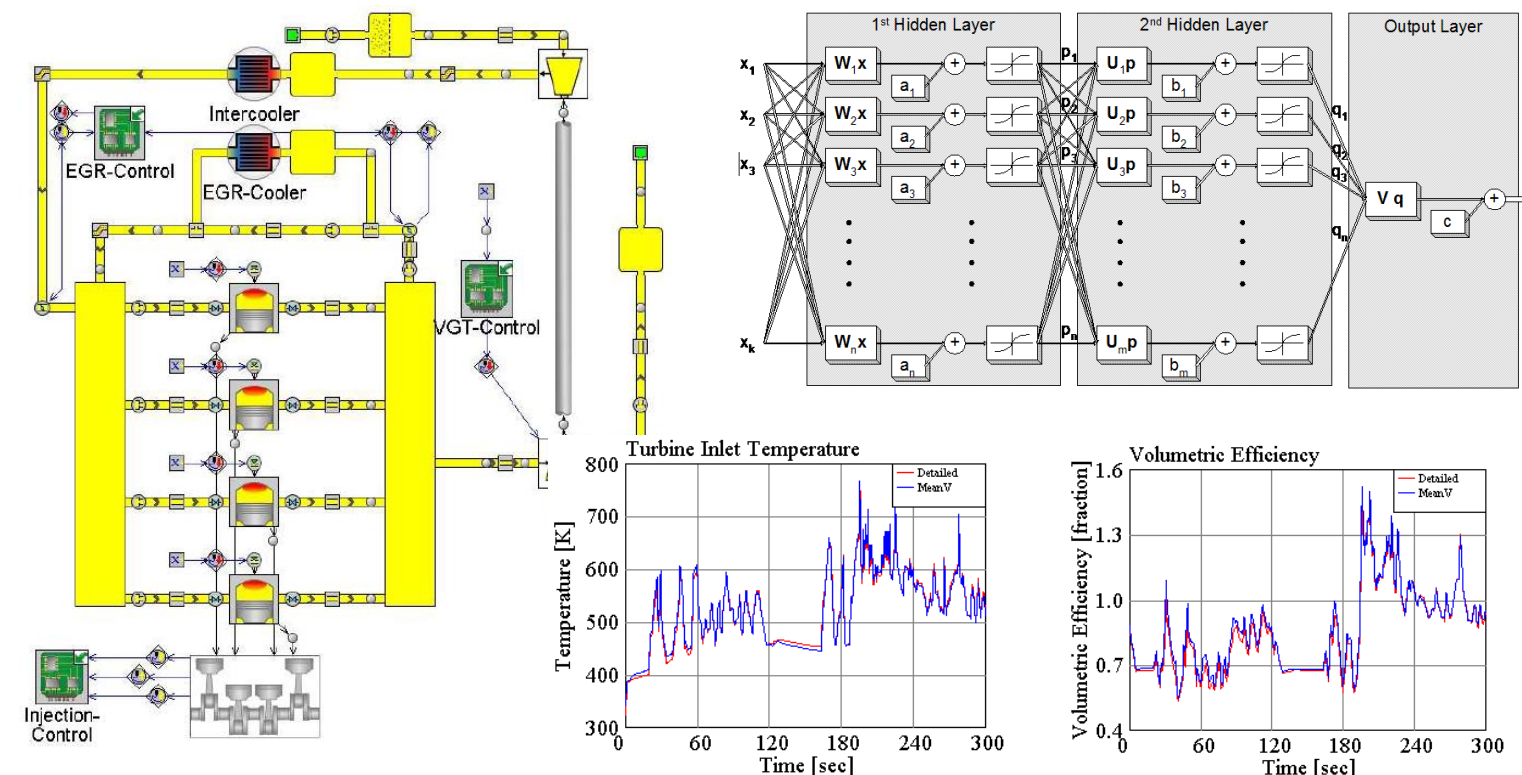
Who Should Attend?

- ❑ Working professionals/ planning to build plant model for real time (RT) simulation of different sub-system like engine, cooling, vehicle drivetrain, HVAC, etc
- ❑ OEMs/ Consulting Companies/ Start-ups
- ❑ Engineering Students/ Professors/ Scholars

Trainer

- ❑ Over 19 years of industrial experience in diesel, gasoline, gas engines; HEV & EV; and aircraft engines
- ❑ 1D simulation domain – engine performance, cooling, HVAC, HEV & EV drivetrain, battery, lubrication, acoustics, hydraulics, cranktrain, and valvetrain
- ❑ Worked with GE, Cummins, ESI, MTU (Rolls-Royce), IST
- ❑ Conducting training for 10 years
- ❑ GT-SUITE user for 14 years
- ❑ M.Tech. from IIT Kharagpur