Agenda Overview

16 Hours ADVANCED Training on

Hydraulic & Fuel System Simulation in GT-SUITE





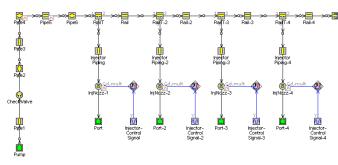


EV, HEV & Engine Developmen Staff Augmentation Corporate Training

This comprehensive advanced module deals with various aspects of hydraulics and fuel injection system modeling and simulation using 1D simulation GT-SUITE & GEM-3D software. Detailed training agenda is mentioned below.

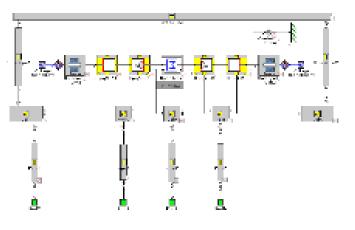
□ Modeling flow piping

✓ Conversion of 3D CAD into 1D flow components.
 ✓ Discretization



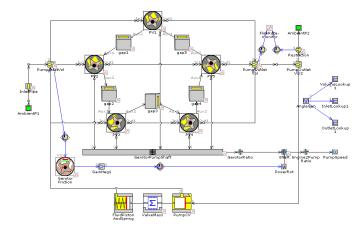
□ Modeling hydraulic & fuel system components

✓ Modeling hydraulic circuit and injection system components - control valves (e.g., check valve, DCV), regulating valves (e.g., pressure control, flow control), pumps, injector, etc



□ Modeling pumps

- ✓ Various options to model different types of pump
- ✓ Detailed modeling & simulation of pumps
- ✓ Pressure pulsation and flow ripple predictions



Who Should Attend?

□ Working professionals/ planning to work in hydraulics

and fuel injection system domains using 1D simulation

Training Fees

Category	Training Fees per participant (Rs.)
Company Sponsored	15,000.00
Individual Sponsored	13,00.00

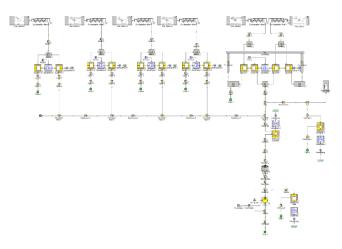
For registration, please contact us:

- E-Mail ID: <u>subir.mandal@integratedsimtech.com</u>
- Contact No.: +91-9763909935
- OEMs/ Consulting Companies/ Start-ups
 - Engineering Students/ Professors/ Scholars

software

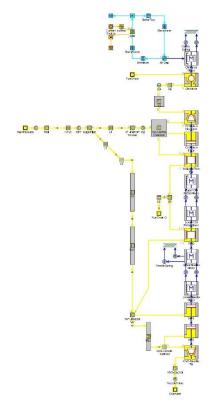
Modeling complete hydraulic system

- ✓ Integration of hydraulic system components, simulation and post processing of results
- ✓ Solver basic of fluid flow, explicit, implicit, fluid properties, cavitation
- ✓ Subassemblies Internal, external, and encryption
- ✓ Model setup Initialization, parameter sweeps, convergence, run setup, case setup
- ✓ Impact of various operating and design variables on hydraulic system performance



Injection system modeling

- ✓ Modeling of a complete fuel injector and associated components & circuits
- ✓ Predict injection rate shape matrix required for predictive combustion model in engine performance



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

