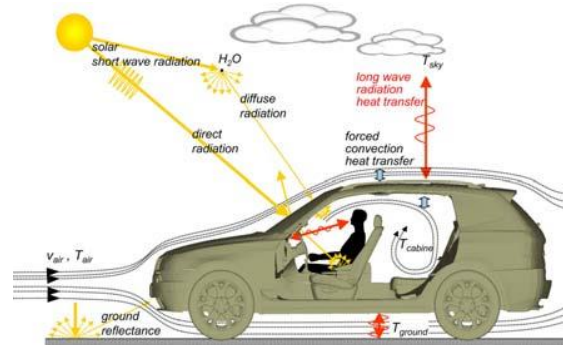


12 Hours **ADVANCED** Training on

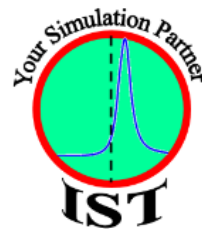
HVAC System Simulation in GT-COOL

Case Study



Practice

Access to Live Videos

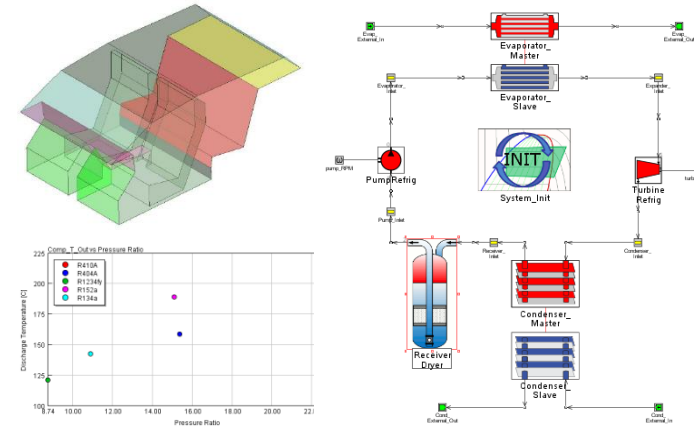


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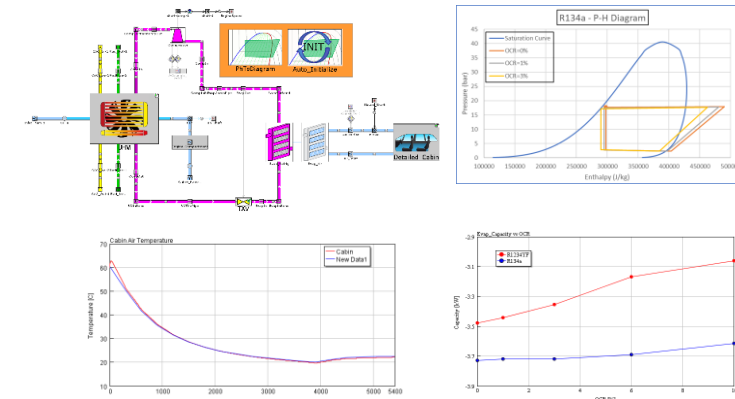
EV, HEV & Engine Development
Staff Augmentation
Corporate Training

This comprehensive advanced module deals with various aspects of air-conditioning and refrigerant system of car using 1D simulation GT-COOL, COOL-3D & GEM-3D software. Detailed training agenda is mentioned below.

- HVAC system modeling & simulation
 - ✓ Modeling refrigerant flow network and A/C system components such as compressor, evaporator, TXV, drier/receiver, condenser, pump, cabin, HVAC door, heater, blower
 - ✓ Use of GEM-3D & COOL-3D to build flow systems & HEX components in 1D & quasi-3D environment
 - ✓ Detailed cabin design
 - ✓ Solver basic of fluid flow and heat transfer
 - ✓ HVAC system calibration
 - ✓ Investigate with change in HVAC system design & boundary variables



- Various aspects of HVAC systems
 - ✓ Integration of different sub-systems which include UHC, HVAC, engine cooling, vehicle driveline etc
 - ✓ Cabin pull down characteristics
 - ✓ Transient drive cycle for fuel economy/ energy management
 - ✓ Refrigerant charge determination
 - ✓ Investigation with different types of refrigerant
 - ✓ Impact of oil percentage on refrigerant system performance



Training Fees

Category	Training Fees per participant (Rs.)
Company Sponsored	13,000.00
Individual Sponsored	11,200.00

For registration, please contact us:

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

Who Should Attend?

- Working professionals/ planning to work in vehicle thermal management and more specifically air-conditioning and refrigerant systems of HEV, EV or conventional vehicle
- 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

