This is an advanced level training and will cover detailed discussion about fundamentals of heat transfer w.r.t. an engine; function & working principle of cooling system components; design and selection of cooling system components; complete cooling system design procedure; and cooling system architecture selection for specific applications.

This training is considered by corporate for a group of its employees and individual engineers to upgrade and impart high end knowledge about cooling system design of an engine. The participants are expected to have basic knowledge of engine cooling system.

- Duration - 1 day; 1 session; 9 hrs per day
- Trainer industrial experience - Over 16 years

**Agenda:**

- Fundamentals of fluid dynamics and heat transfer
- Cooling system purpose & working principle
- Automotive heat transfer mechanisms
- Energy balance
- Cooling system, engine performance, and emissions
- Features of a good cooling system
- Cooling system design parameters and limitations
- Cooling system components design consideration, sizing, and selection including for coolant jacket, pump, fan, HEX (e.g., radiator), fan shroud, thermostat, etc
- Complete procedure of cooling system design
- Cooling system architecture consideration
- Cooling system issues
- Services & maintenance of cooling system