C.V. RAMAN TATA TECHNOLOGIES CENTRE OF EXCELLENCE

Course Name: **Structural, Thermal and Flow Simulation Modelling**

Overview:

- To perform Static and dynamic stress analysis, Thermal stress and heat flow simulations and Fluid flow simulations

Participant Profile:

- Diploma/B.Tech

Contents:

- Types of welds and joints in an automobile
- Structural and Thermal Analysis with Design Validation
- Introduction to tools and models
- Introduction to Fluid Flow
- Fluid flow analysis with Design Validation

Learning Target:

The Participants will be able to

- . Understanding the basics of structural, thermal and fluid flow analysis using ANSYS software.

Prerequisites:

- Solid Modelling & Engineering Drawing through AUTOCAD & CATIA
- Basics of Strength of materials, Fluid Mechanics, heat transfer

Teaching & Learning Media:

- Theoretical and practical

Evaluation:

- Theory & Practical Exam
- Project work based on Industrial Application.

Time Duration:

- 36Hours
- 3Hours/ Day

Fee:

- Please contact the Centre in-charge