

## ● CAE COURSE

### CAE-104 MASTER'S DIPLOMA IN CAE DYNAMICS

**OBJECTIVE:** To understand the simulation performance in order to improve product designs.

#### **DURATION - 180 DAYS**

- CAE modeler concepts (Assembly and Sub-Assembly level)
- Mass adjustment (CG & MOI), lump mass
- Bolt Pretentions, Gravity loads extractions
- Normal Mode Analysis (Free-Free Condition)
- Frequency Response Analysis (Forced Condition)
- Temperature based modal Analysis
- Vibration Fatigue Analysis, Power-Spectral Density (PSD) Data
- Stress based fatigue Analysis(High & Low Cycle)
- High and Low cycles fatigue methods
- Life and damage calculations & target value settings
- Endurance, Alternating & Pulsating limit concepts
- Solver Decks reading and convergence errors
- Output files reading & Debugging methods
- Advance Results interpretation & correlating the acceleration output
- Report Preparations (Industry standards)
- CAE Recommendation slides Preparations (Industry standards)
- Final Project (Industrial)

