

# B.TECH/M.TECH MINOR/MAJOR PROJECT

## ❖ MECHANICAL/CIVIL

### Project list of CATIA:

- ✓ Model a pump in Catia, rapid-prototype it, and pump water with it.
- ✓ Catia to model and study the kinematics of a 4 cylinder engine
- ✓ Vehicle Architecture
- ✓ Investigation of thermal field in friction surfacing
- ✓ Computational study on super critical airofoil
- ✓ Designing of analysis piston
- ✓ Design and analysis of i.c. Engine piston
- ✓ Design and analysis for cylinder fins
- ✓ Namic analysis of friction material of a clutch plate
- ✓ Design analysis of drum in brake
- ✓ Design of an pelton turbine bucket using finite element analysis
- ✓ Design of an axial flow turbocharger using finite element analysis

- ✓ Design analysis of Casing engine
- ✓ Design and analysis of connecting rod using different materials
- ✓ Buckling analysis of laminated composite cylindrical shells
- ✓ Optimization of high speed turning parameters of super alloy inconel 718 material using taguchi technique
- ✓ Stress analysis of functionally graded discs under mechanical and thermal loads
- ✓ Impact of misalignment's on root stresses of hypoid gear sets
- ✓ Dynamic analysis of cracks in composite material