

COMPUTER-AIDED MANUFACTURING LABORATORY



Laboratory : Computer Aided Manufacturing Laboratory
Laboratory In-charge : Mr.R.Vijaya Kumar
Technical supporting staff : Mr.G.Subramani
Area of the laboratory : 14.6 X 9.8 Sq.M

Major Equipment:

Computer Specifications:

CONFIGURATION	ACER	HCL	HP
PROCESSOR	Intel core 2 dual	Intel core 2 dual	Intel core i3
RAM	DDR-2 3GB	DDR-2 3GB	DDR-3 4GB
HARD DISK	160 GB	250 MB	500 GB
OS	Windows 7 32 bit	Windows 7 32 bit	Windows 7 64 bit
DISPLAY	17" LCD	18" LCD	21.5" LCD

Major Experiments:

- Force and stress analysis using link elements in Trusses, cables etc.
- Stress and deflection analysis in beams with different support conditions
- Stress analysis of flat plates and simple shells.
- Stress analysis of axi- symmetric components.
- Thermal stress and heat transfer analysis of plates.
- Thermal stress analysis of cylindrical shells
- Vibration analysis of spring – mass systems.
- Model analysis of Beams.
- Harmonic, transient and spectrum analysis of simple systems.
- 10. Flow analysis compressible and incompressible fluid in uniform cross sectional pipe using CFD
- Flow analysis of incompressible fluid through convergent and divergent cross sectional pipe using CFD
- Convection Analysis of Parallel and counter flow using CFD
- MATLAB basics, Dealing with matrices, Graphing – Functions of one variable and two variables
- Use of Mat lab to solve simple problems in vibration.
- Mechanism simulation using multi body dynamic software.

Software Used:

- Ansys 11.0
- Master CAM
- Edge CAM
- CNC Trainer
- MAT LAB