LIST OF EXPERIMENTS

A. SIMULATION
1. Simulation of Air conditioning system with condenser temperature and evaporator temperatures as input to get COP using C/MAT Lab.
2. Simulation of Hydraulic / Pneumatic cylinder using C/MAT Lab.
3. Simulation of cam and follower mechanism using C/MAT Lab.

B. ANALYSIS (SIMPLE TREATMENT ONLY)
5. Stress analysis of rectangular L bracket
6. Stress analysis of an axi-symmetric component
7. Stress analysis of beams (Cantilever, Simply supported, Fixed ends)
8. Mode frequency analysis of a 2 D component
9. Mode frequency analysis of beams (Cantilever, Simply supported, Fixed ends)
10. Harmonic analysis of a 2D component
11. Thermal stress analysis of a 2D component
12. Conductive heat transfer analysis of a 2D component
13. Convective heat transfer analysis of a 2D component

LIST OF EQUIPMENTS
(For a batch of 30 students)

1. Computer System 30
   17” VGA Color Monitor
   Pentium IV Processor
   40 GB HDD
   512 MB RAM
2. Color Desk Jet Printer 01
3. Software
   Suitable analysis software 30 licenses
   C / MATLAB 5 licenses