



“Mechanized Design Application”
Department: Mechanical Engineering

Course Name : Elective – I Finite Element Analysis

Final Year of Mechanical Engineering (2015 Course)

Course Code : 402044A

Course Objectives:

1. To study governing laws used in fluid power systems
2. To study fluid power applications
3. To study working principles of various components
4. To study selection of different components
5. To study how to design fluid power systems
6. To study low cost automation

Course Outcomes:

On completion of the course, students will be able to –

CO1: Understand working principle of components used in hydraulic & pneumatic systems

CO2: Identify various applications of hydraulic & pneumatic systems

CO3: Selection of appropriate components required for hydraulic and pneumatic systems

CO4: Analyse hydraulic and pneumatic systems for industrial/mobile applications

CO5: Design a system according to the requirements

CO6: Develop and apply knowledge to various applications