Diploma, Anna Univ UG & PG Courses

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RO8711 MODELING AND SIMULATION LABORATORY

DETAILED SYLLABUS

OBJECTIVE:

• To expose the students is the usage of CAD/CAE softwares for modeling and analysis purposes.

LIST OF EXPERIMENTS:

- 1. Solid modeling of engineering components and assembly.
- 2. Determination of stresses and factor of safety in critical machine components by FEM and experimental validation of the results by strain measurement.
- 3. Dynamic analysis of chassis frame of an automobile.
- 4. Crash analysis of an automobile using FEA software.
- 5. Kinematic and dynamic analysis of mechanisms using mechanism analysis software.