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ME8711 SIMULATION AND ANALYSIS LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To give exposure to software tools needed to analyze engineering problems.
- To expose the students to different applications of simulation and analysis tools.

LIST OF EXPERIMENTS A. SIMULATION

1. MATLAB basics, Dealing with matrices, Graphing-Functions of one variable and two variables

- 2. Use of Matlab to solve simple problems in vibration
- 3. Mechanism Simulation using Multibody Dynamic software

B. ANALYSIS

- 1. Force and Stress analysis using link elements in Trusses, cables etc.
- 2. Stress and deflection analysis in beams with different support conditions.
- 3. Stress analysis of flat plates and simple shells.
- 4. Stress analysis of axi symmetric components.
- 5. Thermal stress and heat transfer analysis of plates.
- 6. Thermal stress analysis of cylindrical shells.
- 7. Vibration analysis of spring-mass systems.
- 8. Model analysis of Beams.
- 9. Harmonic, transient and spectrum analysis of simple systems.