Course Title: Applied Mechanics (620215)
Providing Dept.: Mechanical Engineering
Credit Hours: 2

Course Goals:
To build a foundation of analytical capability for the solution of engineering problems that describe force and motion.

Time Schedule:
Duration: 16 Weeks  
Lectures: 2 hours / week  
Tutorial: 1 hour / week  
Tuesday 12-13

Objectives:
• Analyze and solve problems containing equilibrium of rigid bodies.
• Solve problems concerning force acceleration, energy, and momentum.
• Determine the limiting loads which the member can stand before failure.

Course Contents

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<td>2. Rigid bodies: Equivalent System of forces</td>
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<td>3. Equilibrium of Rigid bodies</td>
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<td>2. Distributed forces: Moment of inertia</td>
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<td>3. Plane Motion of Rigid bodies: Force and Acceleration</td>
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Mode of Assessment

1. First exam (20%)
2. Second Exam (20%)
3. Hw's and quizzes (10%)
4. Final exam (50%)

References