

# Lecture Notes Engineering Mechanics Dynamics

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Dynamics of Systems of Particles: Linear and Angular Momentum Principles, Work-energy Principle : 5

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Deformable-body mechanics, and Fluid mechanics. Rigid-body mechanics is divided into two areas: 1. Statics: deals with the equilibrium of bodies, that is, those that are at rest or move with a constant velocity. 2. Dynamics: is concerned with the accelerated motion of bodies. Note: We can consider statics as a special case of dynamics, in which the

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Weight -Only significant gravitational force between the earth and a particle located near the surface • $g = GM_e / r^2$ :: acceleration due to gravity (9.81m/s<sup>2</sup>)  
•Variation of  $g$  with altitude  $r^2$  mM W G  
e W mg ME101 - Division III Kaustubh

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## Engineering Mechanics

### Dynamics

Dasgupta 5 2 2 0 R h R g g g is the absolute acceleration due to gravity at altitude h g

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