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Lecture Notes Engineering Mechanics Dynamics  
Engineering Mechanics: Dynamics • 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 Kautubh Dasgupta 5 2 2 0 R h R g g is the absolute acceleration due to gravity at altitude  $h$   $g$

Engineering Mechanics: Dynamics Dynamics  
LECTURE NOTES: 1: Course Overview Single Particle Dynamics: Linear and Angular Momentum Principles, Work-energy Principle : 2: Examples of Single Particle Dynamics : 3: Examples of Single Particle Dynamics (cont.) 4: Dynamics of Systems of Particles: Linear and Angular Momentum Principles, Work-energy Principle : 5

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Course lecture notes. SES # TOPICS; I. Motion of a Single Particle: L1: Newton's Laws, Cartesian and Polar Coordinates, Dynamics of a Single Particle : L2: Work-Energy Principle : L3: Dynamics of a Single Particle: Angular Momentum : II. Motion of Systems of Particles: L4: Systems of Particles: Angular Momentum and Work-Energy Principle : L5

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Dynamics and Vibrations - Notes. Syllabus and Lecture Notes. Course Goals: on completing EN0040, students will: Be able to idealize a simple mechanical system or component as a collection of particles or rigid bodies, and to use Newtonian mechanics, with the aid of analytical or computational methods, to analyze forces and motion in the idealized system.

Dynamics and Vibrations - Notes  
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STATICS - Lecture Notes  
Dynamics - how things move and interact. Math model - classical mechanics - good approx. Need to be more sophisticated for objects which are: very small - quantum mechanics very fast - special relativity very heavy - general relativity. Math model 1.Physical quantities 1.math objects 2.Make simpli cations 3.Physical laws 1equations 4.Solve the equations

Dynamics - Dur  
me 101: engineering mechanics rajib kumar bhattacharjya department of civil engineering indian institute of technology guwahati block room no 005 tel: 2428

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