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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/s²) •Variation of g with altitude $r = R_e + h$ $g = g_0 (R_e / (R_e + h))^2$ ME101 - Division III Kaustubh 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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Dynamics and Vibrations - Notes
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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 !math objects 2.Make simplifications 3.Physical laws !equations 4.Solve the equations

Dynamics - Dur
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