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LECTURE NOTES; 1:

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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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## **Lecture Notes | Dynamics | Mechanical Engineering | MIT ...**

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

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bodies. Note: We can consider statics as a special case of dynamics, in which the

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Engineering  
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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

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gravity ( $9.81\text{m/s}^2$ )

- Variation of  $g$  with altitude  $r$   $2$   $mM$   $W$   $G$   $e$   $W$   $mg$   $ME101$  - Division III Kaustubh 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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01: Introduction and  
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Gary L. Gray,

Francesco Costanzo,

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**E MCH 212 Dynamics  
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Engineering Mechanics is the study of forces that act on bodies and the resultant motion that those bodies experience. This notes includes axes rotation Condition of Equilibrium from Moments and Equilibrium of Parallel Forces Analysis of Structure.

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Space, Resultant,

Moment of Force and

its Application, Couples

and Resultant of Force

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Friction Forces;  
Calculus of Variations  
& Lagrange Multipliers;  
2: Rigid Body Dynamics  
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Evolution with Rotating  
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**Analytical Mechanics**  
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engineering mechanics by reducing a complex "reality" to appropriate mechanical and mathematical models. In the beginning, the concept of continua is expounded in comparison to real materials.. After a review of the terms motion, displacement, and deformation, measures for strains and the concepts of



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forces and stresses are introduced. Next, the basic

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motion of bodies under  
the action of forces.  
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applies the principle of  
mechanics to design,  
taking into account the

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