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LECTURE NOTES; 1: Course Overview
Single Particle Dynamics: Linear and

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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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Motion of a Single Particle: L1: Newton's
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Energy Principle : L3: Dynamics of a
Single Particle: Angular Momentum : II.
Motion of Systems of Particles: L4:
Systems of Particles: Angular Momentum
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energy principles, and then covers the following topics: Hamilton's principle and Lagrange's equations; three-dimensional kinematics and dynamics of rigid bodies; steady motions and small deviations therefrom, gyroscopic effects, and causes of instability; free and forced vibrations of lumped-parameter and continuous systems; nonlinear

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oscillations and the phase plane;
nonholonomic systems; and an
introduction to wave propagation in
continuous systems.

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Dynamics of Machines

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5: Flow with Heat Addition, Rayleigh Line

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disciplines of mechanical, electrical,
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stage of design itself. Mechanical

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Dynamics Lecture 01: Introduction and Course Overview

Engineering Dynamics (EngM373)

Department of Engineering Mechanics

University of Nebraska-Lincoln (Prepared
by Mehrdad Negahban, 1996 - 2005)

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Mehrdad Negahban and the University of
Nebraska, 1996-2001.

Engineering Dynamics

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second or third year engineering
students with an emphasis on vectors,
free body diagrams, the basic
momentum balance principles, and the

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utility of computation. Students often start a course like this thinking of mechanics reasoning as being vague and complicated.

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