

## MODULE: 1

### Introduction to Engineering Mechanics.

Engineering Mechanics is a subject which deals with the static and dynamic behavior of objects acted upon by forces.

Mechanics is broadly divided into two divisions.

1. Statics (Body is at rest or equilibrium)
2. Dynamics (Moving bodies with an acceleration)

Dynamics divided into two major areas.

1. Kinematics (Studying moving bodies without considering the force producing motion)

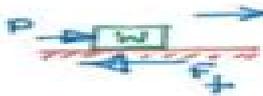
Three equations of kinematics eg.  $v = u + at$ . Force is not considered in all the three.

2. Kinetics (Studying moving bodies while considering the force producing motion)

Eg. equation of motion  $f = ma$ . Force is considered.

### Statics.

**Force:** An action that changes or tends to change the state of rest or uniform motion of a body.



P – Pushing force / F(f) – Frictional force

**Rigid body:** A body which will neither deform nor **deflect** under action of a force.



Deflection delta  $\Delta$

For a rigid body, deflection will be zero.

### Principles of Statics.

#### 1. Parallelogram Law.

Force specifications:

1. Magnitude
2. Direction
3. Point of Application (starting point or end point)

# Engineering Dynamics Lecture Notes

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## **Engineering Dynamics Lecture Notes:**

The book delves into Engineering Dynamics Lecture Notes. Engineering Dynamics Lecture Notes is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Engineering Dynamics Lecture Notes, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Engineering Dynamics Lecture Notes
  - Chapter 2: Essential Elements of Engineering Dynamics Lecture Notes
  - Chapter 3: Engineering Dynamics Lecture Notes in Everyday Life
  - Chapter 4: Engineering Dynamics Lecture Notes in Specific Contexts
  - Chapter 5: Conclusion
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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Engineering Dynamics Lecture Notes.

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