

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.

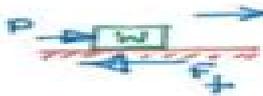
1. Statics (Body is at rest or equilibrium)
2. Dynamics (Moving bodies with an acceleration)

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 Δ

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)

Lecture Notes Engineering Mechanics Dynamics

Mark Steyvers



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