





## Mechanics

• The branch of physics concerned with the state of rest or motion of material objects that are subjected to the action of forces or by thermal disturbances.

## • Mechanics of Materials

- A branch of mechanics that studies the relationship between **external loads** applied to a deformable body and the intensity of **internal forces**.
- Involves computing the deformation of the body based on the determination and understanding of the mechanical behavior of the materials being used.

























































