SNS COLLEGE OF TECHNOLOGY
(An Autonomous Institution)

Department of Mechatronics Engineering

23MET101- ENGINEERING MECHANICS

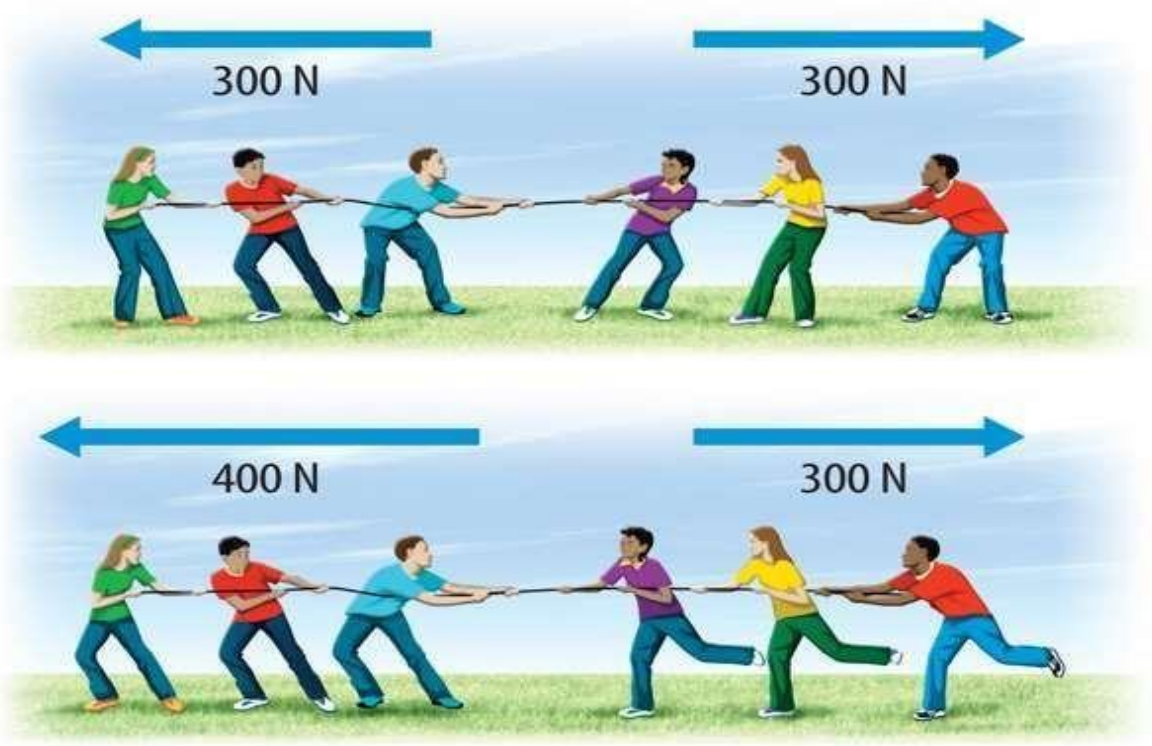
UNIT I - BASICS & STATICS OF PARTICLES

Principle of transmissibility

Principle of Transmissibility

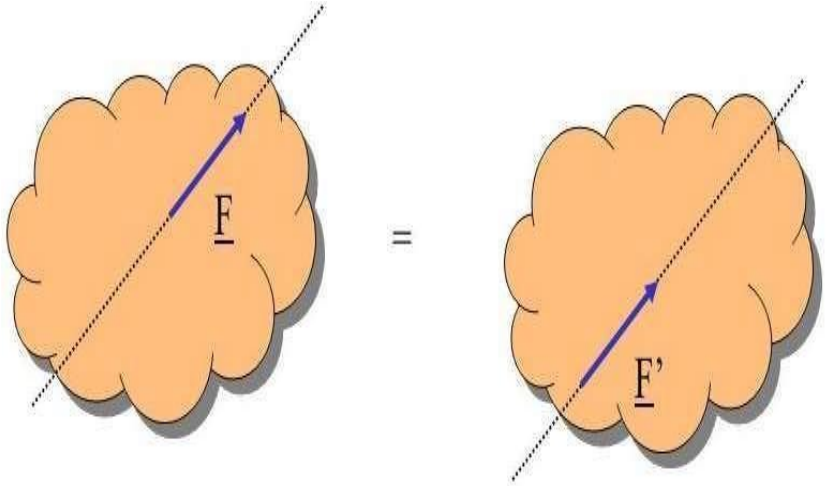
Introduction

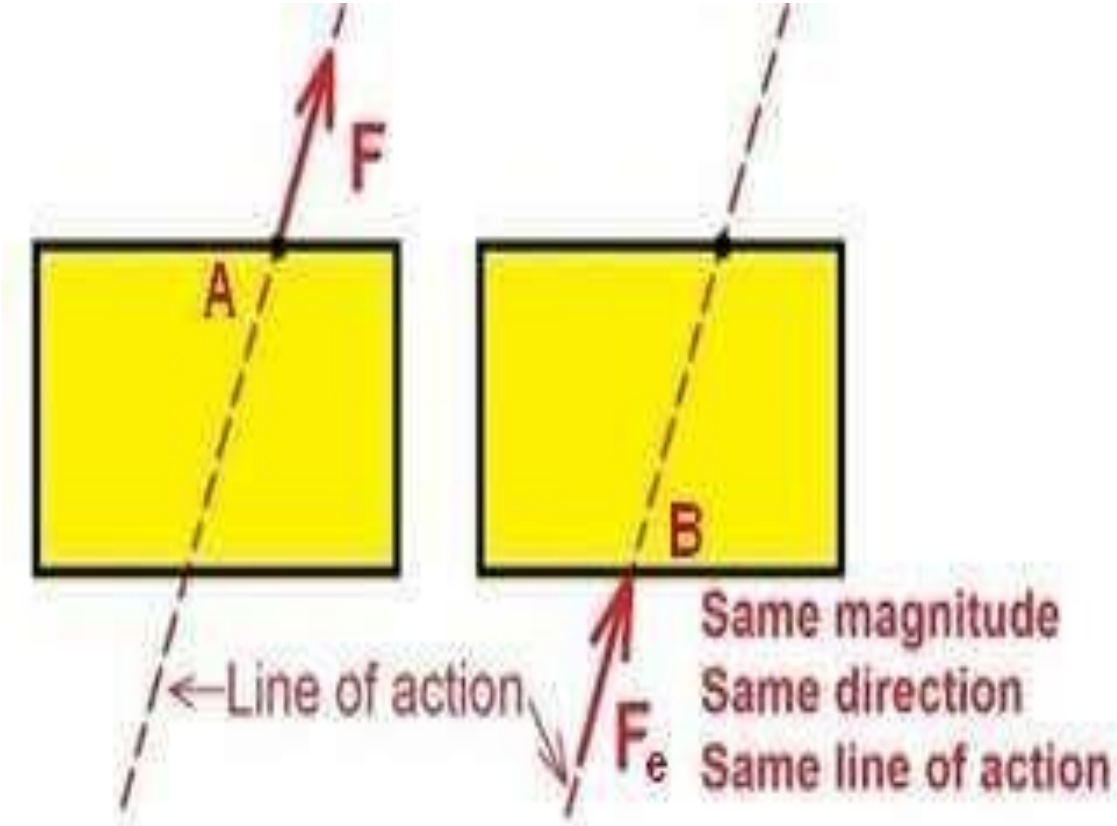
- Forces
  - Pulling forces
  - Pushing forces



Principle of Transmissibility

- Applicable only to rigid bodies





Principle of Transmissibility

According to this law **the state of rest or motion of the rigid body is unaltered** if a force acting on the body is replaced by another force of the same magnitude and direction but acting anywhere on the body along the line of action of the replaced force.

- *Principle of Transmissibility* - Conditions of equilibrium or motion are not affected by *transmitting* a force along its line of action.
  NOTE: **F** and **F**' are equivalent forces.