Chapter - 1
Force and Moment (Resultant and Equilibrium)

- **Engineering mechanics :→** It is the branch of physical science which deals with the state of a body andd the action of external agency.

  state $\begin{cases} \to \text{ state of rest} \\ \to \text{ state of motion} \end{cases}$ External agency $\begin{cases} \to \text{ force} \\ \to \text{ moment} \end{cases}$

- **Force :→** force is an action or an external agency which changes or tries to change the state of a body. (unit = Newton)
  (Push / Pull)

- **Moment :→** It is a measure of turning effect.
  unit = Nm

  $$\text{moment} = \text{force} \times 1^r \text{ distance}$$

  $$\text{moment about } A = F \times d$$

- **Quantity :→** Anything which can be measured directly or indirectly.

  i) Scalar (mag)   ii) vector (mag-direc⁰)

- **Rigid body :→** When there is no deformation in the body after the application of external force, the body is said to Rigid.
  ⇒ deformation is very negligible, so neglected.
  ⇒ No body is perfectly Rigid.

- **Resolution of forces :→**

  $$F_x = F_1 \cos\theta$$
  $$F_y = F_1 \sin\theta$$

  $$F_x = -F_2 \sin\theta$$
  $$F_y = F_2 \cos\theta$$

- **composition of forces :→**

  $$\sum F_x = F_1 + F_2 \cos\theta_1 - F_4 \sin\theta_2 - F_5 - F_6 \sin\theta_3 + F_8 \sin\theta_4$$
  Horizontal

  $$\sum F_y = F_2 \sin\theta_1 + F_3 + F_4 \cos\theta_2 - F_6 \cos\theta_3 - F_7 - F_8 \cos\theta_4$$
  Vertical

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