



# Newton's Laws of Motion and Friction

*Syllabus: Force and inertia, Newton's laws of motion, conservation of linear momentum, inertial frames of references, static and kinetic friction, laws of friction, rolling friction.*

## Review of Concepts

**1. Concept of Force and net Force:** Force is familiar word in science. From your own experience, you know that forces can produce changes in motion. If a force is applied to a stationary body, the body comes in motion. It can speed up and slow down a moving body or change the direction of its motion. In nut shell, the force is cause of change in velocity of the body. In other words, force is the cause of acceleration of the body.

If a number of forces act on a body, the net or resultant force on the body is vector sum of all forces.

Newton's second law gives a good relation between net force and acceleration of body.

According to Newton's second law of motion,

$$\vec{\Sigma F} = m\vec{a}$$

If the resultant force on the body is zero, body remains either in rest or moves with constant velocity. A non-zero net force is referred to as an unbalanced force. Unbalanced force is cause of acceleration of the body.

**2. Newton's Second Law:** The resultant force on a body is equal to product of mass and acceleration of the body. The direction of acceleration is same as the direction of resultant force. Mathematically,

$$\vec{F} = m\vec{a}$$

Here,  $\vec{F}$  = net force on the body

$m$  = mass of the body

$\vec{a}$  = acceleration of the body

Application of methods using Newton's second law of motion:

- Concentrate your mind on the body which is considered by you.
- Make a separate sketch for the considered body.
- Show all forces acting on the body.
- Reduce the considered body to a single point (point mass) and redraw the forces acting on the body, such that tails of all force vectors are on the point mass. This is known as free body diagram.
- Choose a co-ordinate system for the problem whose origin is at the point mass.
- Find  $\Sigma F_x$ ,  $\Sigma F_y$  and  $\Sigma F_z$ .
- Write Newton's second law for each of the co-ordinate system.

i.e.,  $\Sigma F_x = ma_x$ ,  $\Sigma F_y = ma_y$

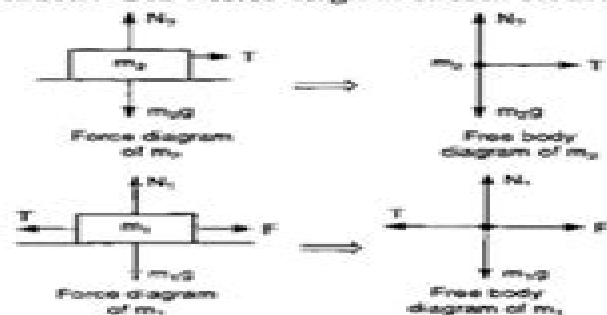
$$\Sigma F_x = ma_x$$

**Case I:** Free body diagram of connected bodies on a horizontal smooth surface.

**Situation:** Two blocks of masses  $m_1$  and  $m_2$  are connected by a massless string (shown in figure).



**Solution:** Draw force diagram of each block:



**Case II:** Choose co-ordinate system and apply Newton's second law:

For  $m_2$ :  $\Sigma F_y = N_2 - m_2g$

Since, both bodies move in horizontal direction (along x-axis),  $\therefore$  hence, y-component of acceleration of both blocks should be zero.

$\therefore a_y = 0$

$\therefore \Sigma F_y = ma_y$

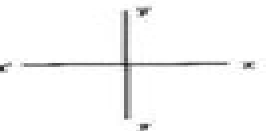
$N_2 - m_2g = m \times 0 = 0$

$N_2 = m_2g$

Also,  $\Sigma F_x = F - T = m_1a_x$

$\therefore F - T = m_1a_x$

Similarly for  $m_1$ ,



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