

UNIT : 02

Mechanics

Equations of motion

- $v = u + at$
- $s = ut + \frac{1}{2}at^2$
- $v^2 = u^2 + 2as$
- $s = \frac{(u+v)t}{2}$
- $s =$ displacement (m)
- $u =$ initial velocity (ms^{-1})
- $v =$ final velocity (ms^{-1})
- $a =$ acceleration (ms^{-2})
- $t =$ time interval (s)

Projectile motion

vertically

- Initial vertical velocity = $u \sin \theta$
- vertical displacement = 0
- vertical acceleration = $-g$ (-9.82)
- $s = ut + \frac{1}{2}at^2$
- $0 = u \sin \theta t + \frac{1}{2}(-g)(t)^2$

$$* \text{ Total time of flight : } \frac{2u \sin \theta}{g}$$

Horizontally

- speed = distance / time
- $t = \frac{2u \sin \theta}{g}$

$$* \text{ Range } = \frac{u^2 \sin 2\theta}{g}$$

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