

## PHYSICS PART: COMPUTER SCIENCE DATA SCIENCE CLASS: PHYSICS

### How Earth is in the Universe

distance = wave speed  $\times$  time

wave speed = frequency  $\times$  wavelength

### Electromotive Energy

energy transferred = power  $\times$  time

power = voltage  $\times$  current

efficiency =  $\frac{\text{energy actually transferred}}{\text{total energy supplied}} \times 100\%$

### Expanding Motion

speed =  $\frac{\text{distance travelled}}{\text{time taken}}$

acceleration =  $\frac{\text{change in velocity}}{\text{time taken}}$

momentum = mass  $\times$  velocity

change of momentum = resultant force  $\times$  time for which it acts

work done by a force = force  $\times$  distance moved in the direction of the force

amount of energy transferred = work done

change in gravitational potential energy = weight  $\times$  vertical height difference

kinetic energy =  $\frac{1}{2}mv^2$  = mass  $\times$  (velocity)<sup>2</sup>

### Electric Circuits

power = voltage  $\times$  current

resistance =  $\frac{\text{voltage}}{\text{current}}$

$\frac{\text{voltage across primary coil}}{\text{voltage across secondary coil}} = \frac{\text{number of turns in primary coil}}{\text{number of turns in secondary coil}}$

### Radioactive Materials

charge = mass  $\times$  (speed of light  $\times$  mass)<sup>2</sup>

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**N Noddings**



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