

### What's Physics?

Physics is... the subject of studying nature and natural phenomena.

Branches of Physics: >Mechanics

>Waves and Oscillations >Heat and Thermodynamics

>Electrodynamics >Properties of Matter and Fluid Mechanics

>Optics and Relativity >Atomic Physics

>Nuclear Physics >Electronics and Communication

>Astrophysics >Computer Science

### Nature of Physical Laws

i) Conservation of Mechanical Energy:

For motion due to external force, the mechanical energy is constant.

ii) Conservation of Total Energy of an Isolated System: If

some of the forces are non-conservative, the mechanical energy is transformed into other forms.

iii) Conservation of Mass Plus

Energy: the total (mass+energy) of the universe is conserved.

### The Fundamental Forces in Nature



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