

CHAPTER

1

PHYSICAL WORLD



Chapter Objective

This chapter will help you understand :

- *Physics – Scope and excitement, Nature of Physical laws.*
- *Physics–Technology and society.*



TOPIC-1 Physical Science



Quick Review

- **Scope of Physics :**
The scope of Physics is wide, covering a tremendous range of magnitude of physical quantities. Physics covers larger phenomenon as well as smaller quantities. For example,
 - (i) Life span of most unstable particle to life of an average star i.e., from 10^{-22} s to 10^{25} s on time scales.
 - (ii) Celestial Body's mass to electron's mass i.e., from 10^{30} kg to 10^{-30} kg on mass scales.
- **Excitement in Physics :**
Few reasons that makes physics exciting—
 - (i) It is very challenging and exciting to unfold and detect secrets of nature with imaginative new experiments.
 - (ii) There is an innovative approach for applying physical laws to many new inventions i.e., projects, machines, etc.
 - (iii) Few basic concepts, fundamental principles and laws helps in explaining the wide range of physical quantities, complicated phenomena of nature, etc.

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Know the Terms

- **Science** is a systematic attempt to understand a natural phenomenon in as much detail and depth as possible and use the knowledge so gained to predict, modify and control phenomenon.
- **Physics** is the study of the basic laws of nature and their manifestation in different phenomenon.
- **Mechanics** : It is an area of science concerned with behaviour of physical bodies when subjected to forces or displacements and subsequent effect of bodies on environment. It can also be defined as branch of science which deals with motion of forces on objects.
- **Electro-dynamics** : It deals with rapidly changing electric and magnetic fields.
- **Optics** : It involves the behaviour and properties of light including its interactions with matter and construction of instruments that use or detect it.
- **Thermodynamics** : It is concerned with heat and temperature and their relation to energy and work.
- **Mesoscopic Physics** : It is the sub-discipline of condensed matter physics which deals with materials of an intermediate length scale between size of quantity of atoms and of materials measuring micrometres.

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