# Physics Class Notes

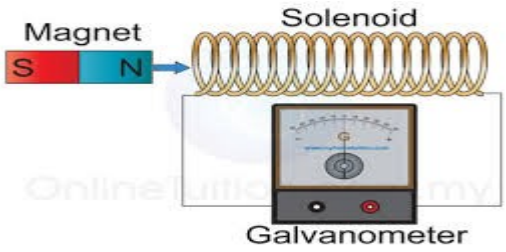
## Chapter 3- Electromagnetic Induction

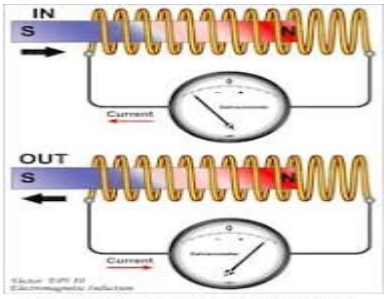
### Galvanometer

Galvanometer is device used to detect the presence and direction of electric current

**Symbol-** 

### Electromagnetic Induction-Experiment




1. **Why did the galvanometer needle deflect in the experiment?**

Ans: **Whenever there is a change in the magnetic flux linked with a coil, an emf is induced in the coil.**

**2. Which are the instances in which there was a flow of current through the solenoid?**

Ans: **Whenever there is a relative motion between the magnet and the solenoid, there is a flow of electricity.**

### Electromagnetic Induction

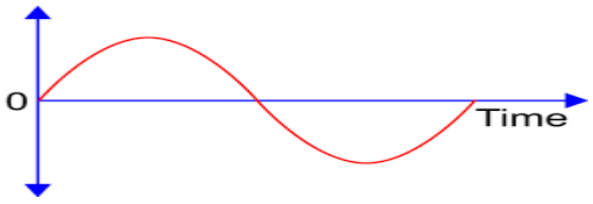
**Whenever there is a change in the magnetic flux linked with a coil, an emf is induced in the coil. This phenomenon is electromagnetic induction. The emf thus developed is called Induced emf and the current is called Induced current.**

### Factors Affecting Induced emf

- **Number of turns of the coiled conductor.**
- **Strength of the magnet.**
- **Speed of motion of either the magnet or the coil.**

### Alternating Current (AC)

**Current that changes at regular intervals of time, is an alternating current.**




### Direct Current (DC)

**A current that flows only in one direction continuously is a direct current.**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