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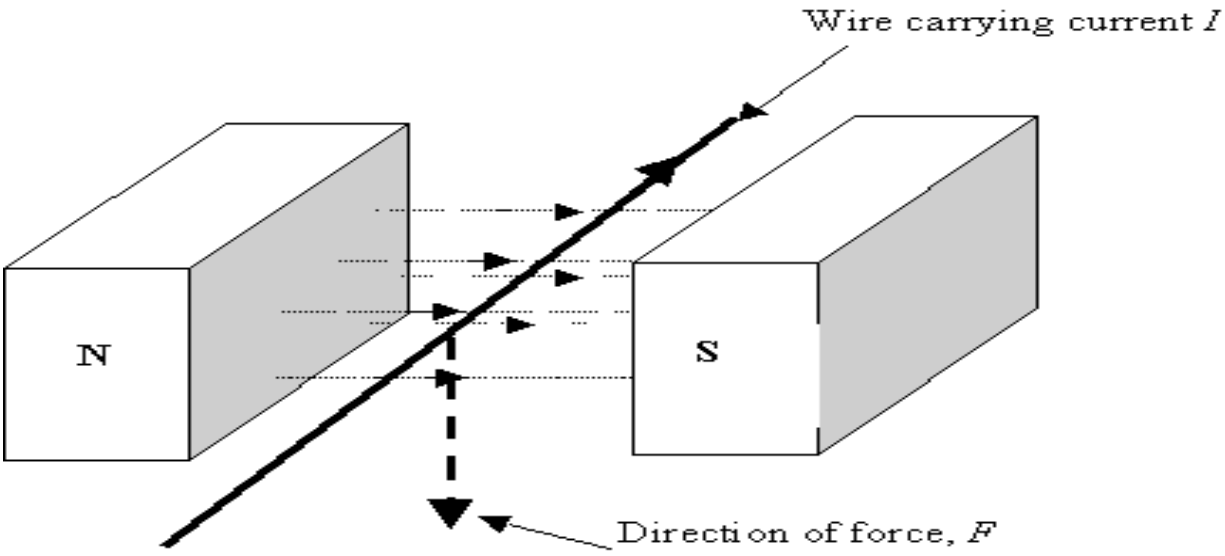
SUBJECT:- PHYSICS CLASS:- XTH DATE:- 11/07/XXI

SUBJECT TEACHER:- MR. NEEL NIRANJAN

CHAPTER 2. (MAGNETIC EFFECTS OF AN ELECTRIC CURRENT) (BASED ON NCERT PATTERN)

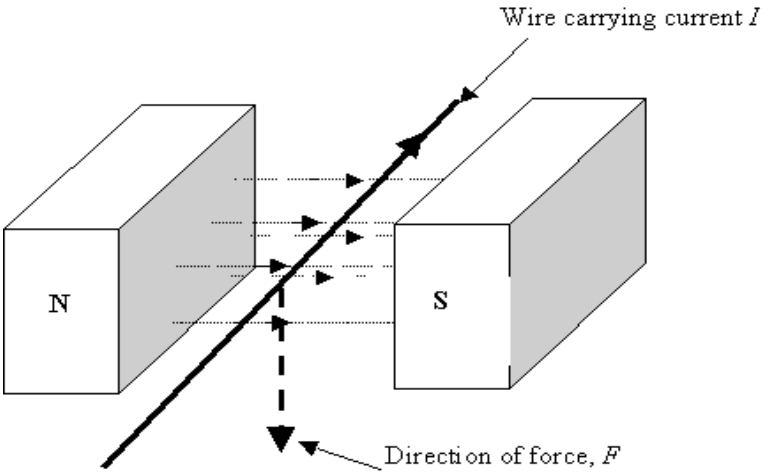
Electromagnetic induction

The production of electricity from magnetism is called electromagnetic induction.



Experiment: Wire AB is held between the poles of a magnet. Two ends of the wire are connected to a galvanometer. Still no current is produced but when the wire is in motion between poles of magnet, it cuts the magnetic lines, due to which the strength of the magnetic field is changed and current is induced in the wire.

It is defined as the production of current in a conductor when the conductor is moved between the poles of the magnet. The current produced is called induced current.



Fleming’s right hand rule

Stretch your forefinger, center finger and thumbs mutually perpendicular to each other such that the forefinger points in the direction of magnetic field. The thumb points in the direction of motion & center finger indicates the direction of induced current.