

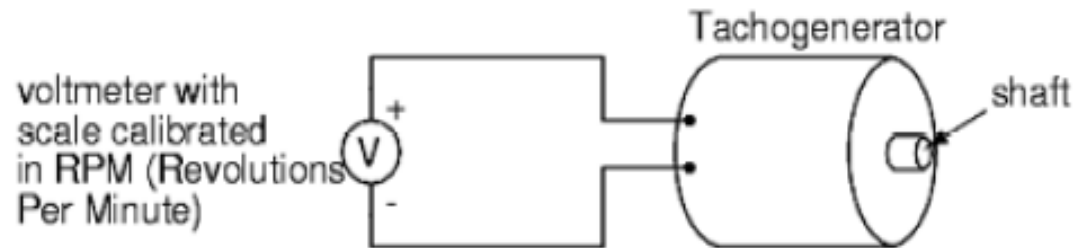
# **ELECTRICAL MEASUREMENT & MEASURING INSTRUMENTS**

# UNIT 2

## Instrument Transformers

# AC Tachogenerator

- An electromechanical generator is a device capable of producing electrical power from mechanical energy, usually the turning of a shaft.
- When not connected to a load resistance, generators will generate voltage roughly proportional to shaft speed



# Electrical Resonance type frequency meter

## **Ferro-dynamic type frequency meter:**

- This type of instrument operate on the principle of electrical resonance, when inductive reactance  $X_L$  and capacitive reactance  $X_C$  become equal, electrical resonance said to be occurred.
- This type of instrument consist of a laminated iron core of varying cross section, a fixed coil (known as magnetizing coil) mounted at one end of the iron core, moving coil attached with a pointer and pivoted so that it can move freely over an iron core.

# Ferro-dynamic type frequency meter

