**INTRODUCTION**

**“BASIC CONCEPTS AND LAB EQUIPMENT”**

**OBJECTIVE:**

**To understand the operation of oscilloscope, Function Generator, Digital Multimeter, Power Supply and function generator.**

**INSTRUMENTS:**

* Oscilloscope.
* Function generator.
* DMM.
* DC power supply**.**

**THOERY:**

**OSCILLOSCOPE:**

It is used to display the wave form generated by function generator two channels are used to generate which are given below;

* Square wave
* Rectangular wave

**FUNCTION GENERATOR:**

It is used to generate the three different types of wave form which are given below;

* Triangle wave
* Rectangular wave
* Sine wave

**Digital Multimeter (DMM):**

A digital multimeter (DMM) is a test tool used to measure two or more electrical values. Principally voltage (volts), current (amps) and resistance (ohms). It is a standard diagnostic tool for technicians in the electrical or electronics industries.

**DC POWER SUPPLY:**

A DC power supply is one that supplies a voltage of fixed polarity (either positive or negative) to its load. Depending on its design, a DC power supply may be powered from a DC source or from an AC source such as the power mains.

**Triangle wave:**

**Rectangular wave:**

**Sine wave:**