

IIT KGP

DIY GROUP LAB PROJECT

Using laser for length

Measurement

Main Objective:

Measurment is one of the necessary thing to know the mysteries of Nature. Modern society can’t exist without measurement.

In early days and today also to measure length between any two points for any purpose we use length measuring tapes or big rulers.

Here we are going to make a device which will measure the distance between two points without going phiscally to those points.

Things Required:

* 2 Laser light
* Wooden board
* LED Display screen
* Arduino Board
* Potentiometer
* Wires
* Battery

SET UP:

First take a rectangular wooden board and there mark two points 5cm apart.

Then at any point fix a laser permanently.

Then at another point fix a potentiometer fix permanently and a fix laser light over it with its rotating part.

The main purpose of using potentiometer is to measure the angle as shown in the diagram.

Schematic Diagram :

