Karachi Campus

Discovering Knowledge

Department of Software Engineering

BSE 1-B

"APPLIED PHYSICS LAB"

Course Code: GSL 114

"PROJECT PROPOSAL"

Lab Instructor: SIR HABIB ZUBAIRI

Project title:

"Laser Security Alarm"

Group Members:

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Project Scope:

The main purpose of this project is to design a smart security system that will help in keeping the environment safe and secure. Nowadays technologies are getting more advanced day by day. We can take advantage of these technologies to keep our environment secure. This Security Alarm is suitable for use in Banks, Homes, and other places which need highly secure conditions. Laser Security Alarm will help to make our environment safe and secure.

Project Abstract:

This Laser Security Alarm is built on a microsensor-based system having a laser detector. In this project, we are designing a Security Alarm using a Transistor (BC547), along with an LDR, a 100k ohm Resistor, Laser Light, Reflecting Mirrors, Buzzer, and Jumper Wires. When all the components are connected, the Laser Security System will run. When someone comes near the house and crosses the boundary, the laser sensor will detect that change and Buzzer will start Ringing when the person is at a particular distance away from the house the sensor will again prompt the laser thus Stop the Buzzer.

Teacher Signature: _____

Remarks: _____

Submission Date: _____