Abstract

Reading is a daily activity that was almost did everyday by humans, whenever and whereever. To keep our eyes stay healthy and not damaging our eyes when reading, there needs a enough light intensity.

When we are reading, the light intensity could be not sufficient with the standard that has been set by SNI (300-400 Lux). From this research, we are expecting to create a device that could handle and also monitors the light intensity to be sufficient, when we are reading.

With a device that composed of Arduino Uno microcontroller that has been embedded with Light Dependent Resistor (LDR) sensor, the corresponding device should be able to detect light intensity in the reading room. When LDR sensor detects the light intensity is currently below 300 Lux, then the sensor will send a signal to Arduino to turn on the lamp, and vice versa. Arduino will monitor and adjust the light intensity to stay in the range 300-400 Lux.

Keywords : LDR sensor, light intensity, reading, lux.