

ABSTRACT

The lecturer room should have a comfortable atmosphere and condition so that lecturers can focus more on their work. Factors that affect the comfort of the lecturers room, such as student activities, academic staff, couriers, etc. to find the space / cubicle lecturers that cause noise. Lecturer room search tool should be applied to avoid excessive activity in the lecturer's room.

In this final project has been designed and made Lask Rooms Display tool Using Microcontroller that serves to facilitate students, academic staff, couriers, etc. to find the lecturer room. Display Lecturer Room Using this Microcontroller before the students, academic staff, couriers, etc. entering their lecture room must input the lecturer code first, then the code read by the system and displayed on the LCD screen and LED will light to detect the lecturers' room.

After application of Lecturer Room display tool proven to help search process of lecturer room, no time consuming, no noise in lecturers room, using microcontroller ATmega 2560 and NPN 2n2222 transistor method. In this Final Project only uses 34 digital port pins, 2 VCC pin ports, 2 ground pin pins, and 10 MISO MOSI pin ports. In testing the system as much as 5 times shows the LED turns 100%. In this Final Project the required power is 4.5 Watt.

Keywords: Microcontroller, LCD, LED