LIGHT CONTROL SYSTEM WITH COUNTER

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"I declare that this report entitled "*LIGHT CONTROL SYSTEM WITH COUNTER*" is the result of our own group research except as cited in the references. The report has not been accepted for any degree and is not concurrently submitted in candidature of any other degree."

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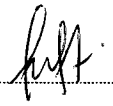
Signature :. 

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ABSTRACT

Due to shooting electricity bills there is a growing need to find innovative methods to conserve electricity. Light Control System with Counter has been created to help reduce waste of electricity and help reduce the increasing of electricity bill among the universities. This control system uses sensor to detect the presence of people that enter the classroom as an input while the dimmer and 7-segments that control the brightness of the light and display the number of people that enter the room as the output. Programmable Interface Controller (PIC) is the main part of this system that placed between input and output. This smart system has been created because most of the students that entered the classroom forgot to switch off the light while leaving the classroom. That attitude has caused the university bill to increase and waste the electricity. Other than that, there are some problems when the lecturer has to count their student in a certain class. The concept of this control system is if the sensor detects a person enters the room, the output part that consist of 7-segments will display the number of people that enter the room and the bulb will automatically turn on. The brightness of the bulb will depend on the surrounding illumination.

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