

SUPERVISOR APPROVAL

CLASSROOM AUTOMATION USING BLUETOOTH MODULE

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ABSTRACT

Most of the classes in colleges or universities are still using the traditional way in controlling their electrical appliances such as lights and fans. This will cause troublesome to the user, either the lecturer or the students as they need to manually search for the switches which sometimes may located at different parts of the classroom. Other than that, it is also quite impossible to keep track of appliances that are switched-on and also to monitor their performances. Sometime, when the lecturer need to use the LCD projector during the lecture, the student will be instructed to turn off the light but sometimes they are sitting quite far from the switch. Besides, students always forgot to switch off the electric appliances in the classroom because they are in hurry to go to another class. This cause electrical waste as the electric appliances are left open in an empty class. The main objective of this project is to improve manually the way of controlling electrical appliances in the classroom with the use of technology. Based on the findings retrieved through readings from journals and articles and literature review conducted it is important for to this project to get the related information as much as possible. The system starts when the Bluetooth connection in the Bluetooth module is connected. The output of this system is from the message that is sending by the GSM module to the user's mobile phone. This system is very helpful to the students to control electrical appliances in the classroom and ensure the electric waste can be reduce.

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CHAPTER 1

INTRODUCTION

This chapter will give reader a fundamental introduction of how the idea of the project will be generated. In this chapter will show the introduction of project, objectives project, problem statement, scopes project, significant of study and simple brief for summary.

1.1 Background Of Study

During the class, we know that there are no people such as student or lecturer who concern to switch off the electricity supply such as air-conditioner and lights after the lecture session has finished. There will be also a troublesome especially for student and lecturer in the classroom when they want to use the LCD projector and need to switch on and off the light manually every time they need to use it. Sometimes, student forgot to turn off electrical appliances such as fan, light and airconds and will be left opened until the staff closes when the working hours has finished.

Most of the university and college still use the manual system to control their electrical appliances. Someone needs to go to the main power to switch on the power supply and make sure all the appliances in the building are switched on. The current power supply system that is used in the university has no control towards the waste of electricity because people easily let the electrical appliances in the classroom left opened. Other than that, the electrics shortcut may occur because the appliances are left opened the whole day during working hours. Thus, this project is proposed to make sure such situation do not happen and can reduce the waste of money due to the electricity waste.

There is safety risk with the use of small appliances in classroom. Small electrical appliances include but are not limited to the following such as electric kettle, refrigerator, toaster, etc. These device are not recommeded to be used in the