



**INSTANT ENERGY SCHEDULING
RECOMMENDATIONS
FOR COST SAVING IN SMART HOMES**



A PROJECT REPORT

Submitted by

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*In partial fulfilment for the award of the degree
of*

BACHELOR OF ENGINEERING

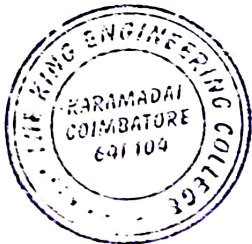
IN

ELECTRICAL AND ELECTRONICS ENGINEERING

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BONAFIDE CERTIFICATE

Certified that this project work titled "INSTANT ENERGY SCHEDULING RECOMMENDATIONS FOR COST SAVING IN SMART HOMES" is the bonafide work of ARCHANA.S(710419105005) , KARTHIK.C(710419105018), NIVETHA.K (710419105028). who carried out the project work under my supervision.

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ABSTRACT

Home Automation system refers to the checking and maintaining and controlling all the home applications and allowances from our hand without any help of human power and without any help of any other machines.


Low-cost sensors and ubiquitous wireless networking is enabling novel ways in which homeowners can interact with their smart homes. Many complementary approaches like using voice commands, direct interaction by using touch or weight, or by using body gestures are emerging.

In this paper we used various sensors and microcontroller to control the home appliances automatically by using IOT technology.

The need for smart home warning systems is in high demand nowadays as they are used to warn owners about undesired situations that could happen while they are far away from their homes. This paper aims to present the design and implementation of an Arduino based smart home warning system.

This project also deal with discussion of different home application techniques how manually we can control all the applications using remote by remote controls.

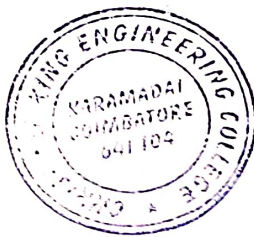



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CHAPTER 5

5.1 CONCLUSION

An ESP32 based smart home system has been proposed and implemented in this paper. The proposed system allows homeowners to monitor their homes while they are far away. The most dangerous situations (fire, gas leakage, and housebreaking) can be detected by using the proposed system. Homeowners can be notified about these situations via SMS messages, emails with attached pictures, mobile calls, etc. Moreover, several proper actions can also be performed by the proposed system such as stopping fire via water and decreasing gas concentration in the air via a fan. The home automation using Internet of Things has been experimentally proven to work by connecting simple appliances to it. These appliances were successfully controlled remotely through the internet. The designed system instigates a process according to the user's requirements, for example switching on a fan when it gets hot. Sensors can be implemented to store data which can later be used to analyze the system at hand.



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