VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 010

A PROJECT REPORT ON

"INNOVATIVE HOME AUTOMATION USING COB AC LED"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

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CERTIFICATE

*Certified that the project work entitled "***INNOVATIVE HOME AUTOMATION USING COB AC LED***" is a bona fide work carried out by: -*

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in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2022–2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies theacademic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

An up-to-date overview of various technologies which are existing to provide home automation from different sources is provided. This review covers some evolving technologies in the field of home automation using COB AC LED. A separate review on home automation and COB AC LED is provided. The use of regular LED in various domains is more expensive than the newly developed driverless AC LED, the total cost to build a driverless AC LED and the life span is much higher than the regular LED devices. This paper compared the performance of different ways of home and different ways of controlling the appliances. In this method home automation utilizing AC COB LED technology. The suggested solution is made to let users manage lights and different home equipment like fans and air conditioners using a smartphone app. The system makes use of a Wi-Fi module to make it possible for the smartphone and the AC COB LED modules, which are in charge of managing the appliances, to communicate. The smartphone application may be used to quickly operate the AC COB LED modules, which are incorporated into the house's existing electrical system. The suggested solution improves the consumers' overall quality of life by being economical, energy-efficient, and handy for controlling home appliances. The experimental findings show that the suggested approach is workable and efficient.