VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI-590 018

A MICRO PROJECT REPORT ON

"Synchronously Blinking Emergency Light"

Submitted By,

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CERTIFICATE

This is to certify that the Micro-Project entitled **"Synchronously Blinking Emergency Light"** has been Successfully Completed by

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The bonafide students of **Department of Basic Sciences, Alva's Institute of Engineering and Technology,** affiliated to VISVESVARAYA **TECHNOLOGICAL UNIVERSITY, BELAGAVI,** during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

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ABSTRACT

If the mains energy fails and there is no backup power, visibility becomes a problem at night. Due to poor visibility, the likelihood of a person being injured as a result of falling over or colliding with household items increases. This can be avoided with the Smart Emergency Light system. The system includes a light sensor that detects ambient light. The sensor detects when the intensity of light falls below the level of visibility (which occurs frequently due to power outages at night), and notifies the system. The system replies by turning on a slew of white LEDs that are wired to it. This aids in restoring visibility by restoring a normal light intensity level. The LEDs will stay on until the system is turned on. When the system is turned off and on again, the system begins a new scan of the ambient light intensity level. An LDR is a light-dependent component that uses ambient light to generate a level of output at its terminals. As a result, a bright environment differs from a gloomy environment with few or no lights. This value is used to programme a timer IC to turn on the LEDs linked to it for a set period of time. If the ambient light remains low, the LEDs will remain on since the timer IC receives the trigger from the LDR. Synchronously blinking emergency lights can help maintain visibility in this fashion.