

VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI-

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**A MICRO PROJECT REPORT ON
“Automated Night Lighting System”**

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CERTIFICATE

This is to certify that the Micro-Project entitled "Automated Night Lighting System" 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

We present a completely automated night lighting system that detects light conditions and turns on or off a load or bulb based on the intensity of the light. To achieve this objective, the system employs an LDR, a 555 timer, and relay-based circuitry with an AC load connection. The circuitry uses a 555 timer-based circuit to drive a relay for a set time period when the light intensity falling on the LDR falls below a certain level. As long as there are night/low light circumstances, this procedure continues and the load is switched on via a relay. The mechanism turned off the load to turn off the lighting as soon as the lighting increased. Thus we have a fully automated night lighting system.