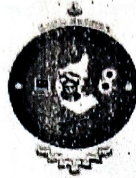


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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-**

**590 018**



**A MICRO PROJECT REPORT ON  
“Auto Electronic School Bell”**

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**Under the Guidance of**

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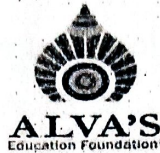
**DEPARTMENT OF BASIC SCIENCES  
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY  
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**2020-2021**

**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**MIJAR, MOODBIDRI D.K. -574225**

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**DEPARTMENT OF BASIC SCIENCES**

**CERTIFICATE**

This is to certify that the Micro-Project entitled "Auto Electronic School Bell" 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.

A handwritten signature in blue ink, appearing to read "Arjun S Rao".

**Mr. Arjun S Rao**  
Mini Project Guide

A handwritten signature in blue ink, appearing to read "Dr. Ramaprasad A.T.".

**Dr. Ramaprasad A.T,**  
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**H.O.D.**

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## ABSTRACT

School Bell is conventionally rung by a person who has been designated to do it. This is done on a periodic basis. With the advent of digital electronics, this task can be automated by this project that has been specially designed for this scenario. It can be used in School for ringing class timeout bells as well as in factories and industries for various purposes. A Bell can be connected to the project board's output side. The system will ring this bell on a regular basis to alert those in the vicinity that a task is about to begin or that a task is about to expire. This function is useful for school teachers who need to take classes on time. It can be used in factories to signal the start of work, break times, and plant closings. Because of the circuit's architecture, this project can count intervals of 45 minutes and a 30-minute lunch break. Time is counted in 30 minute and 45 minute increments using two decade counters and a 555NE timer. An SCR is activated when the timing signals reach the predetermined time, allowing AC power to be output at the Bell connector. The start and end of the Bell sequence are controlled by a push button that is connected to the circuitry.