VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA CAMPUS, BELAGAVI-590018

MINI PROJECT REPORT

OF

AUTOMATIC ELECTRIC EQUIPMENT MONITORING SYSTEM

Submitted by

CHARAN S V	4AL22IS401
SYED SALEHA	4AL21IS061

Under the Guidance

of

Dr. SUDHEER SHETTY

Head of the department

ALVA'S

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI- 574225, KARNATAKA

2022-23

Mini Project Guide

Dept. of ISE, AIET

HOD

Dept. of ISE, AIET

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI- 574225, KARNATAKA

ALVA'S

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

CERTIFICATE

Certified that the mini project work entitled ***"AUTOMATIC ELECTRIC EQUIPMENT MONITORING SYSTEM"*** *is a bonafide work carried out by*

CHARAN S V	4AL22IS401
SYED SALEHA	4AL21IS061

in partial fulfilment for the award of **BACHELOR OF ENGINEERING** in **INFORMATION SCIENCE AND ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM** 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 the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Dr. SUDHEER SHETTY
Project Guide

Dr. SUDHEER SHETTY
Head of Department

ABSTRACT

In most colleges and universities, the lighting is controlled by a switch, as is the case with traditional lighting systems. The majority of us, both staff and students, are accustomed to leaving the classroom without turning off the lights, fans, or air conditioning, for example, results in needless energy consumption for the organisation and expensive out-of-pocket expenses. Some lighting systems have remote controls that can be used to regulate the lights and fans in a manner similar to how air conditioners are used in houses. However, there are difficulties with leaving the lights and fans on when no one is in the room. In order to use energy efficiently in classroom settings where we have divided the class room intro grids, we have built automatic lighting and control utilising ESP8266 or Arduino in this research. In contrast to the system installed in the ceiling, which would turn on or off based on the presence of humans in the room regardless of position, the system designed will regulate lighting in a specific region of the classroom based on the presence of humans using relay control.