

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 010



PROJECT REPORT ON

**“DESIGN AND IMPLEMENTATION OF
MICRO WEATHER STATION”**

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

**BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING**

Submitted By

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI – 574 225.

2020-2021

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

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(Affiliated to VTU, BELAGAVI)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project work entitled "DESIGN AND IMPLEMENTATION OF MICRO WEATHER STATION" 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 2020–2021. 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.



Signature of the Guide

Mrs. Vijetha T S



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ABSTRACT

The advancement of Internet of Things (IoT) has made a major impact on technology. It collects an enormous amount of data which can be used in an application. One such system is Micro Weather Station, which gives us different environment variable values such as temperature, humidity, soil moisture, Ultraviolet (UV) radiation, air pressure, air quality, and rainfall. Initially research or advancements done on weather monitoring were limited, but over the last century it has evolved into a well-organized and professional global activity that reflects its crucial importance for a wide range of economic, environmental, civil protection and farming activities. Due to human activities these days there is a drastic change in the climate, hence an accurate and cost-efficient system is needed which is used to monitor the changes in the environment. The application of weather station is not just bounded for getting the live data and prediction of weather, but also includes the advancement in the agricultural sector and the military applications. Cloud storage technology and Geo-tagging have made it much simpler to get the data of any place at any time.