

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

*"Jnana Sangama" Belagavi - 590 010*



**PROJECT REPORT ON**

**"IOT BASED REAL TIME MONITORING AND  
CONTROL SYSTEM FOR MUSHROOM FARM"**

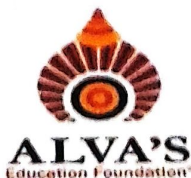
*Submitted in partial fulfillment of the requirements for the award of degree*

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

**Submitted By**

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**Under the Guidance of  
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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY  
MOODBIDRI - 574 225.**

**2022-2023**

# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

MOODBIDRI - 574 225

(Affiliated to VTU, BELAGAVI)

A+, Accredited by NAAC & NBA (ECE & CSE)

## DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

### CERTIFICATE

Certified that the project work entitled "IOT BASED REAL TIME MONITORING AND CONTROL SYSTEM FOR MUSHROOM FARM" is a bona fide work carried out by

PRATHEEK KUMAR

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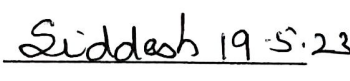
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SUMA

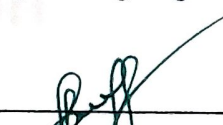
4AL19EC080

in partial fulfillment for the award of **BACHELOR OF ENGINEERING** in **ELECTRONICS & COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** 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 the Project work prescribed for the Bachelor of Engineering Degree.

  
Signature of the Guide  
Mr. Sudhakara H M

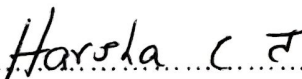

  
Signature of the H.O.D  
Dr. Siddesh G K

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## ABSTRACT

The Internet of Things (IoT) has revolutionized the way we interact with the world around us. This study proposes an IoT-based approach to improve the process of milky mushroom cultivation. The proposed system uses a GSM module and a Blynk app to monitor and control various environmental parameters crucial for the growth of milky mushrooms. The system employs various sensors to measure the temperature, humidity in the mushroom cultivation environment. The data collected by these sensors is transmitted to a microcontroller, which processes the data and sends it to the GSM module. The GSM module then sends the data to the Blynk app, allowing growers to remotely monitor and control the environmental conditions in their mushroom grow room. The Blynk app allows growers to set thresholds for various environmental parameters, and if the readings go beyond these thresholds, the system sends an alert to the grower's mobile phone. This helps growers take proactive measures to prevent any damage to the crop. Overall, the proposed system offers a cost-effective and convenient way to monitor and control the mushroom cultivation environment. With the help of the GSM module and Blynk app, growers can optimize the environmental conditions for milky mushroom cultivation, leading to higher yields and better-quality mushrooms.