Karnataka State Council for Science and Technology

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)
Indian Institute of Science Campus, Bengaluru – 560 012
Telephone: 080-23341652, 23348848, 23348849, 23348840
Email: office.kscst@iisc.ac.in, office@kscst.org.in • **Website:** www.kscst.iisc.ernet.in, www.kscst.org.in

KSCST

Dr. U T Vijay
Executive Secretary

24th April, 2023

Ref: 7.1.01/SPP/33

To,
The Principal,
Alva's Institute of Engineering and Technology,
Shobavana Campus, Mijar,
Moodbidri - 574 225.

Dear Sir/Madam,

Sub : Sanction of Student Project - 46th Series: Year 2022-2023

Project Proposal Reference No. : **46S_BE_2282**
Ref : Project Proposal entitled **IOT BASED REAL TIME MONITORING AND CONTROL SYSYEM FOR MUSHROOM FARM**

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 46th Series". The project details are as below:

Student(s)	Mr. SHASHANK S KASHYAP	**Department**	ELECTRONICS AND COMMUNICATION ENGINEERING
	Mr. PRATHEEK KUMAR		
	Ms. SUMA		
	Ms. SATHVI	**Sanctioned Amount (in Rs.)**	6,000.00
Guide(s)	Mr. SUDHAKAR H.M		

Instructions:

a) The project should be performed based on the objectives of the proposal submitted.

b) Any changes in the project title,objectives or students team is liable for rejection of the project and your institution shall return the sanctioned funds to KSCST.

c) Please quote your project reference number printed above in all your future correspondences.

d) After completing the project, 2 to 3 page write-up (synopsis) needs to be uploaded on to the following Google Forms link https://forms.gle/nWTaJjvrwzp3Wmvt6. The synopsis should include following:

1) Project Reference Number

2) Title of the project

3) Name of the College & Department

4) Name of the students & Guide(s)

5) Keywords

6) Introduction / background (with specific reference to the project, work done earlier, etc) - about 20 lines

7) Objectives (about 10 lines)

8) Methodology (about 20 lines on materials, methods, details of work carried out, including drawings, diagrams etc)

9) Results and Conclusions (about 20 lines with specific reference to work carried out)

10) Scope for future work (about 20 lines).

e) In case of incompeted projects, the sanctioned amount shall be returned to KSCST.

f) The sanctioned amount will be transferred by NEFT to the bank account provided by the College/Institute.

g) The sponsored projects evaluation will be held in the Nodal Centre/Online Mode and the details of the same will be intimated shortly by email / Website announcement.

h) After completion of the project, soft copy of the project report duly signed by the Principal, the HoD, Guide(s) and studetn(s) shall be uploaded in the following Google Forms Link https://forms.gle/YWz56TrGg7fnSQgc7. The report should be prepared in the format prescribed by the university.

Please visit our website for further announcements / information and for any clarifications please email to spp@kscst.org.in

Thanking you and with best regards,

Yours sincerely,

(U T Vijay)

Copy to:

1) The HoD
ELECTRONICS AND COMMUNICATION ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, MOODBIDRI

2) Mr. SUDHAKAR H.M
ELECTRONICS AND COMMUNICATION ENGINEERING
ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, MOODBIDRI

3) THE ACCOUNTS OFFICER
KSCST, BENGALURU

Siddesh
H. O. D.
Dept. Of Electronics & Communicatio
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 225

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590 018

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

Name	USN
PRATHEEK KUMAR	4AL19EC057
SATHVI	4AL19EC068
SHASHANK S KASHYAP	4AL19EC071
SUMA	4AL19EC080

Under the Guidance of
Mr. Sudhakara H M
Associate Professor
Department of E&C Engineering

ALVA'S
Education Foundation

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	**4AL19EC057**
SATHVI	**4AL19EC068**
SHASHANK S KASHYAP	**4AL19EC071**
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	**Signature of the H.O.D**	**Signature of the Principal**
Mr. Sudhakara H M	**Dr. Siddesh G K**	**Dr. Peter Fernandes**
	Dept. Of Electro... ...mmunicati... Alva's Institute o... Engg. & Technology Mijar, MOODBIDRI - 574 225	PRINCIPAL Alva's Institute of Engg. & Technology, Mijar, MOODBIDRI - 574 225, D.K

EXTERNAL VIVA

Name of the Examiners	Signature with date
1. Harsha C T	24/5/23
2. Dr. Siddesh GK	Siddesh 24/5/23

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.

Siddesh

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