



Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012

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Email: office@kscst.iisc.ernet.in, office@kscst.org.in ♦ Website: www.kscst.iisc.ernet.in, www.kscst.org.in

Mr. H. Hemanth Kumar
Executive Secretary

27th March 2019

Ref: 7.1.01/SPP/1333

The Principal,
Sapthagiri College of Engineering,
#14/5, Chickasandra,
Hesaraghatta Main Road,
Bengaluru - 560 057.

Dear Sir/Madam,

Sub : Sanction of Student Project - 42nd Series: Year 2018-2019

Your Project Proposal Reference No. : 42S_BE_0279


Ref : Your Project Proposal entitled " **AGROBOT**

I am happy to inform that your student project proposal referred above, has been approved by the Council for "Student Project Programme - 42nd Series" and has been sanctioned with a budgetary break-up as detailed below:

Student / s	Ms. Anusha B and others	Budget	Amount (Rs)
		Materials/Consumables	6,000.00
Guide/s	Mr. A.Dhamodaran	Labor	-
		Travel	500.00
Department	Electrical And Electronics Engineering	Miscellaneous	500.00
		Report	500.00
		TOTAL	7,500.00
SEVEN THOUSAND FIVE HUNDRED RUPEES ONLY			

The following are the guidelines to carryout the project work :

- The project should be performed based on the objectives of the proposal sent by you.
- The project should be completed in all respects and one copy of the hardbound report along with softcopy of the full report in a CD (.pdf format) should be submitted to KSCST.
- Any change in the project title and objectives, etc., or students is liable to rejection of the project and the amount sanctioned needs to be returned to KSCST.
- Please quote your **project reference number printed above** in all your future correspondences.
- Important:** After completing the project, 2 to 3 page write-up (synopsis) needs to be sent by e-mail [spp@kscst.iisc.ernet.in] and should include following :
 - Title of the project
 - Name of the College & Department
 - Name of the students & Guide(s)
 - Keywords


Principal
Sapthagiri College of Engineering
Chickasandra, Hesaraghatta Road,
Bengaluru-560 057

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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI-590018, KARNATAKA**



A Project Report On

AGROBOT

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

BACHELOR OF ENGINEERING IN ELECTRICAL AND ELECTRONICS

For the academic year 2018-2019

Submitted By

ANUSHA B (ISG15EE008)

C S MOHANA (ISG15EE017)

JEEVITHA A (ISG15EE038)

KEERTHANA R (ISG15EE041)

Under The Esteemed Guidance Of:

Mr. A DHAMODARAN, Asst. Professor



Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

Department of Electrical and Electronics Engineering

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5 Chikkasandra, Hesaraghatta Main Road, Bangalore-560057



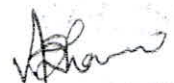
SAPTHAGIRI COLLEGE OF ENGINEERING

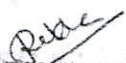
#14/5, Chikkasandra, Hessarghatta Main Road, Bangalore-560057


Department of Electrical and Electronics Engineering

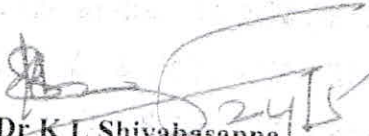
CERTIFICATE

Certified that the project work entitled **AGROBOT** is carried out collectively by **ANUSHA B (ISG15EE008)**, **C S MOHANA (ISG15EE017)**, **JEEVITHA A (ISG15EE038)**, **KEERTHANA R (ISG15EE041)**, bonafide students of 8th semester EEE Dept. in partial fulfillment for the award of degree in **Bachelor of Engineering** at Sapthagiri College of Engineering affiliated to **Visvesvaraya Technological University, Belagavi** for the Academic year **2018-2019**. 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 said degree.


Mr. A Dhamodaran
Assistant Prof.
Guide


Mrs. Rekha S N
Associate Prof.
Project Coordinator


Dr. K N Ravi
Prof & HOD
EEE Dept.


Dr. K L Shivabasappa
Principal


Principal
Sapthagiri College of Engineering
Chikkasandra, Hessarghatta Road
Bangalore-560 057

External Viva

Name of the examiners

- 1.
- 2.

Signature with date

ABSTRACT

This project strives to develop a robot capable of performing operations like ploughing, fruit picking, testing of the atmospheric parameters like temperature, humidity, pH level and moisture content of the soil. The main component here is the Arduino Uno ATmega328P microcontroller that supervises the entire process. On the field the robot operates on automated mode, but outside the field is strictly operated in manual mode. For manual control the robot uses the Bluetooth pairing application as control device and helps in the navigation of the robot outside the field. The robot is incooperated is fitted with various sensors that continuously monitor the environment parameters. It checks these levels with the set point of the sensor and alerts the farmer. The alerting mechanism is Bluetooth module that sends a text message to the farmer informing him about the breach in set point. The concept of fruit picking is described under the process domain. Farmers today spend a lot of money on machines that help them decrease labor and increase yield of crops but the profit and efficiency are very less. Hence automation is the ideal solution to overcome all the shortcomings by creating machines that perform one operation and automating it to increase yield on a large scale.




Principal

Sapthagiri College of Engineering
Chikkasandra, Hesarghatta
Bangalore-560 037

ENDORSEMENT


(From College, endorsement to be taken in the institution / Department Letter head)

This is to certify that 1) Ms. ANUSHA B. 2) Ms. C S MOHANA 3) Ms. JEEVITHA A 4) Ms. KEERTHANA R, are bonafide students of Department of Electrical and Electronics Engineering, in the B.E. degree program of our institution. If the project proposal submitted by these students under the 42nd Series of Student Project Programme is selected by KSCST, we will provide the requisite laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps to see that the project team will exhibit / demonstrate their project in the nodal centre and in the State Level Seminar and Exhibition (if selected). If the student team fails to send the completed project report or fails to attend the evaluation in nodal centre or fails to attend the State Level Seminar and Exhibition, the supported project amount will be returned back to KSCST.


 (A. DHAMODARAN)
 (Name & Signature of
 Project Guide with Seal)


Email id:
 adhamodaran@sapthagiri.edu.in

Contact No.: 9620540352


 (Signature of HOD with
 Seal)

Email id:
 hodeee@sapthagiri.edu.in

Contact No.: 9449940873


 (Signature of the Principal
 with Seal)

Email id:
 principalsce@sapthagiri.edu.in

Contact No.: 9880703600

Principal

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 Chikkasandra, Hesaraghatta Road
 Bangalore-560 057

Professor & HOD
 Department of Electrical &
 Electronics Engineering
 Sapthagiri College of Engineering
 BANGALORE - 560 057


 Principal
 Sapthagiri College of Engineering
 Chikkasandra, Hesaraghatta Road
 Bangalore-560 057

KSCST : Student Project Programme : 42nd Series : 2018 – 2019 – Stream C : Student Project Proposal

Principal
Sreegiri College of Engineering
Chikmagalur, Hesaraghatta Road,
Bangalore-560 057

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र एक लाख और उससे अधिक डीमांड ड्राफ्ट के लिए दो प्राधिकृत हस्ताक्षरकर्ता की हस्ताक्षर चाहिए।
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