



KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Indian Institute of Science campus, Bengaluru






Telephone: 080 -23600978, 23341652 || Email: spp@kscst.org.in
Website: www.kscst.iisc.ernet.in/spp.html or www.kscst.org.in/spp.html

**FORMAT FOR STUDENT PROJECT PROPOSAL FOR THE
46th SERIES OF STUDENT PROJECT PROGRAMME**

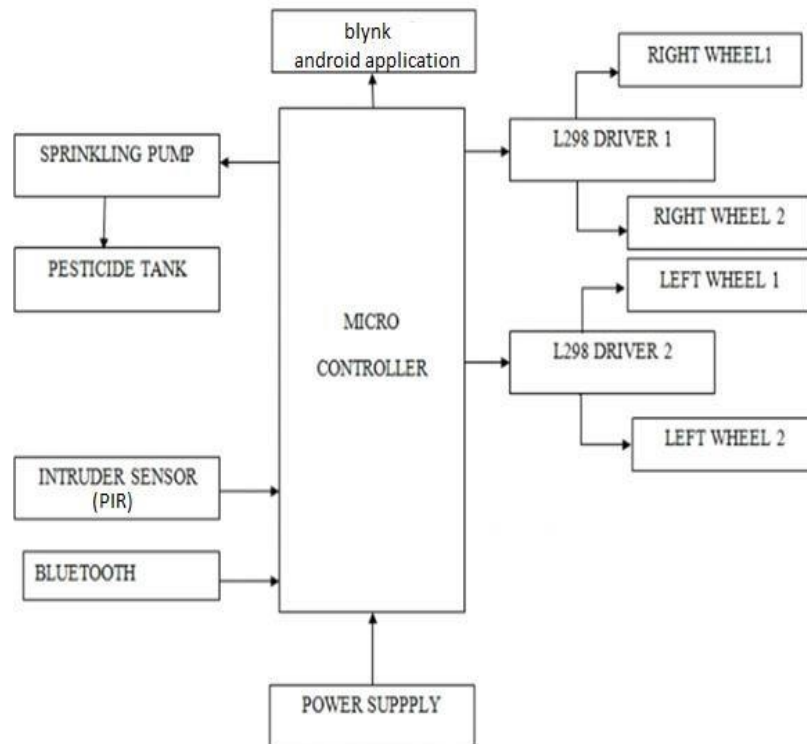
(Handwritten proposals will not be accepted, please fill all the details in this MS word file, insert images / diagrams wherever necessary. Convert to pdf file, get it approved from the project guide / head of the department and principal of your institution. Keep ready the scanned pdf file of 1) Declaration and Endorsement 2) details of processing fees made and fill-up the Google Form. Send the softcopy of the project proposal including the three scanned pages and send the proposal (All information in one pdf file) by email to spp@kscst.org.in

<https://forms.gle/pMfzw4iKL7LNAojd8>

1.	Name of the College: GSSS Institute of Engineering and Technology for Women,mysore.
2.	Project Title: PESTICIDE SPRINKLER WITH IOT BASED SECURITY
3.	Branch: Electrical & Electronics Engineering
4.	Theme (as per KSCST poster): Stream 7
5.	Name(s) of project guide(s): 1. Name: Mrs. Shilpashri V N Email id:shilpashri@gsss.edu.in Contact No:8722031159

6.	<p>Name of Team Members (Strictly not more than four students in a batch):</p> <p>Name: Bhoomika C P USN No: 4GW19EE005 Email id: bhoomikapoonacha@gmail.com Mobile No: 8861493073</p>  <p>Name: Prakruthi K N USN No: 4GW19EE026 Email id: prakruthigowdakn02@gmail.com Mobile No: 8088321587</p>  <p>Name: Rakshitha G USN No: 4GW19EE030 Email id: rakshitharakshi218@gmail.com Mobile No: 6363498778</p>  <p>Name: Vidyashree K USN No: 4GW19EE041 Email id: vidyakantharaju6@gmail.com Mobile No: 8660020352</p> 
7.	<p>Team Leader of the Project:</p> <p>Name: Rakshitha G USN No: 4GW19EE030 Email id: rakshitharakshi218@gmail.com Mobile No: 6363498778</p> 
8.	<p>Processing Fee Details (Through Online Payment only): (processing fee of Rs. 1000/-) Please furnish the payment made details provided in the last page of this proposal.</p> <p>UPI No: 000394063218 Date: 31/01/2023 Bank Name: CANARA BANK</p>
9.	<p>Date of commencement of the Project: 05/10/2022</p>
10.	<p>Probable date of completion of the project: 05/05/2022</p>

11.	<p>Scope / Objectives of the project:</p> <ul style="list-style-type: none"> • To spray pesticides with more efficiency, low cost and also with less human power. • To speed up the pesticides spraying operation • To apply the correct rate of the recommended product uniformly to the target without contaminating non-target areas.
12.	<p>Methodology:</p> <ul style="list-style-type: none"> • The first step to design the Agri-robots is to conduct the field survey to know the requirements, which helps to decide upto what level we have to design and automate the robot. • The two important parts in Agri-robots specially the pest controlling robot are the chassis i.e., mechanical frame design and electronics that is sensors, processor, different controlling module, etc. From field survey we can design the chassis according to the pattern of Agri-land. • IT also helps to decide what components and materials we should consider, how we can automate the motion of robot, of what power electric motors we should use, etc.



13. Expected Outcome of the project:

- The spraying time of insecticides is depending on the quantity of pesticide to be sprayed.
- Internet of Things is far and wide castoff in relating devices and gathering statistics. This agriculture monitoring system serves as a reliable and efficient system and corrective action can be taken. Wireless monitoring of field reduces the human power.

14.	<p>Is the project proposed relevant to the Industry / Society or Institution? Yes / No: No</p> <p>If Yes, please provide details of the Industry / institution and contact details: No</p>												
15.	<p>Can the product or process developed in the project be taken up for filing a Patent? Yes / No: No</p> <p>Prior Art search done? Yes/No: No</p>												
16.	<p>Budget details (break-up details should be given): Note: KSCST will provide nominal grant support for carrying out the project by students if selected by the project selection committee.</p> <table border="1" data-bbox="312 1093 1369 1552"> <thead> <tr> <th>Budget</th> <th>Amount</th> </tr> </thead> <tbody> <tr> <td>a) Materials / Consumables (Please specify)</td> <td>7000.00</td> </tr> <tr> <td>b) Labor (Describe)</td> <td>3000.00</td> </tr> <tr> <td>c) Travel (Describe)</td> <td>500.00</td> </tr> <tr> <td>e) Miscellaneous (Please specify)</td> <td>500.00</td> </tr> <tr> <td>Total</td> <td>11000.00</td> </tr> </tbody> </table>	Budget	Amount	a) Materials / Consumables (Please specify)	7000.00	b) Labor (Describe)	3000.00	c) Travel (Describe)	500.00	e) Miscellaneous (Please specify)	500.00	Total	11000.00
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c) Travel (Describe)	500.00												
e) Miscellaneous (Please specify)	500.00												
Total	11000.00												
17.	<p>Any other technical details (Please specify):</p> <p>Hardware Requirements:</p> <ul style="list-style-type: none"> • Arduino • Buzzer • Car kit • LN298 Motor Driver • PIR Sensors <p>Software Requirements:</p> <ul style="list-style-type: none"> • Arduino IDE • Blynk 												

18.	<p>SPP Coordinator (Identified by the college):</p> <p>Note: To be identified by the principal of the institution. The project proposals must be submitted to KSCST through SPP coordinator designated by the Principal.</p> <p>Name: Mr. RAJASHEKAR M B Email id: rajashekar@gsss.edu.in Contact No.:9620268281</p>

1. Name of the Project Guide:
Shilpashri V N

Email id:shilpashri@gsss.edu.in

Contact No.: 8722031159

Name of the HOD:
Dr.G.Sreeramulu Mahesh

Email id: hodeee@gsss.edu.in

Contact No.: 9980147498



GSSS

GEETHA SHISHU
SHIKSHANA SANGHA (R)

INSTITUTE OF ENGINEERING AND TECHNOLOGY FOR WOMEN

(Affiliated to Visvesvaraya Technological University, Belagavi. Approved by AICTE New Delhi & Govt. of Karnataka)

KRS ROAD, METAGALLI | MYSURU - 570 016 | KARNATAKA | INDIA



Phone : 0821 - 2581304, 4257304 / 2977306 **Fax :** 0821 - 2581305 **Email :** gssseengg@yahoo.co.in, principal@gsss.edu.in **Web :** www.geethashishu.in

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

DECLARATION

(From Project Students)

We, the project team hereby declare that the details enclosed in the project proposal (Title of the Project: Pesticide sprinkler with IOT based security. Branch: Electrical & Electronics Engineering, College: GSSS Institute of Engineering & Technology for Women, Mysuru, are true and correct to the best of our knowledge and belief and we undertake to inform KSCST of any changes therein in the project title, students name will be intimated immediately through project guide. In case any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it. We hereby authorize sharing of the project information with this project proposal with the Karnataka State Council for Science and Technology, Bengaluru.

We are aware that the project team must exhibit / demonstrate the project in the nodal centre and interact regarding project with the experts and to exhibit the project in the State Level Seminar and Exhibition (if selected). If the student team 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 to KSCST.

We also hereby, enclose the endorsement form to KSCST, Bengaluru.

Name of the students with USN No.

Signature with date

1. Bhoomika C P (4GW19EE005)
2. Prakruthi K N (4GW19EE026)
3. Rakshitha G (4GW19EE030)
4. Vidyashree (4GW19EE041)

Mrs.Shilpashri V N
(Name and signature of Project Guide with Seal)
Email id:shilpashri@gsss.edu.in
Contact No:8722031159

Dr.G.Sreeramulu Mahesh
(Name and Signature of HOD with Seal)
Email id:hodeee@gsss.edu.in
Contact No:9980147498



PAN-No. : AAATG6551G
GST-No. : 29AAATG6551G1ZL

GSSS

GEETHA SHISHU
SHIKSHANA SANGHA (R)

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1918

GSSS IETW/pr. office/KSCST/2022-2023/1918

Date: 02/02/2023

ENDORSEMENT

This is to certify that below mentioned are bonafide student(s) of Department of Electrical & Electronics Engineering in the UG degree program of our institution. If the project proposal submitted by these students under the 46th 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 to KSCST.

SL. No	Student 1	Student 2	Student 3	Student 4
1.	Ganavi G	Himashree HS	Renuka S Manneri	Tejashree S
2.	Nisarga B	Nisarga M	Harshitha L	Sahana R K
3.	Chandana H R	Mouna M D	Sonika U P	Supritha A
4.	Aishwarya M	Dakshayini N	Dhanushree N	Divya E R
5.	Aishwarya R	Kavya Vishwanath	Nimrah Zain R	Sameera Maheen Taj
6.	Bindushree	Archana R	Pooja Sharma	Priyadarshini R
7.	Rakshitha G	Prakruthi K N	Vidyashree K	Bhoomika C P

V. Hoda
02/02/2023
(Signature of HOD with Seal)
Professor & Head
Dept. of Electrical & Electronics Engg.
GSSSIETW, Mysuru, India - 570016

Dr. Geetha Kumari
02/02/2023
(Signature of the Principal with Seal)
Principal
GSSSIETW, Mysore-570016

Email id: hodeee@gsss.edu.in

Contact No.: 9980147498

Email id: principal@gsss.edu.in

Contact No.: 9844406214

DETAILS OF PROCESSING FEES MADE THROUGH NEFT / UPI PAYMENT

(**Note:** Include this page in the softcopy of the student project proposal. The student team shall furnish the details in the Google Form. It is informed to the students to 1) keep ready the softcopy of the project proposal and other documents and 2) Furnish the payment made details as processing fees and 3) update the details in the Google Form on the same day of payment made to KSCST by NEFT / UPI payment).

1. TITLE OF THE PROJECT	:	Pesticide Sprinkler with IOT based Security
2. NAME OF THE TEAM LEADER	:	Rakshitha G
3. EMAIL ID	:	rakshitharakshi218@gmail.com
4. CONTACT MOBILE NO.	:	6363498778

PAYMENT MADE DETAILS

5. BANK REF. NO. / UTR NO. / UPI No. (12 digits)	:	000394063218
6. TRANSACTION ID	:	000394063218
7. NAME OF THE SENDER / ACCOUNT HOLDER and CONTACT NUMBER	:	Principal,GSSSIETW
8. NAME OF THE BANK	:	CANARA BANK
9. PROCESSING FEES	:	Rs. 1000/-
10. DATE OF PAYMENT MADE	:	31-01-2023
11. TIME	:	12:02:44
12. MODE OF PAYMENT MADE (NEFT / UPI, PLEASE SPECIFY)	:	Funds Transfer Debit – KARNATAKA STATE COUNCIL FOR SCIENCE: Cheque

Rakshitha G

(Name & Signature of
the team leader)

Dr.G.Sreeramulu Mahesh

(Name & Signature of
Project Guide or HOD with Seal)

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science campus, Bengaluru

46th SERIES OF STUDENT PROJECT PROGRAMME (SPP)

(Note: This page is for information about bank details of KSCST to the student team and college / institution and not to include this page in the project proposal softcopy)

BANK ACCOUNT DETAILS OF KSCST

Name and address of the Institution	Karnataka State Council for Science and Technology, IISc Campus, Bangalore -560012
Account holder's name / Designation	Secretary, Karnataka State Council for Science and Technology
Bank Account No. & Name of the bank	Current A/C No. 0683201000024 Canara Bank, IISc Campus Branch, Bangalore-560012
IFSC Code	CNRB0000683
MICR Code	560015023
Bank Branch Address	Canara Bank, Indian Institute of Science, Bangalore-560012

BANK DETAILS

Name of the Agency	Karnataka State Council for Science and Technology IISc Campus, Bangalore - 560012
Account holder's name / Designation	Secretary , Karnataka State Council for Science and Technology
Bank Account No. & Name of the bank	Current A/C No. 0683201000024 Canara Bank IISc Campus Branch Bangalore-560012
IFSC Code	CNRB0000683
MICR Code	560015023
Bank Branch Address	Canara Bank Indian Institute of Science Bangalore-560012