

SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057
Affiliated to VTU, Belagavi and approved by AICTE, New Delhi
Accredited by NAAC with "A" grade, Accredited by NBA for CSE, ISE, ECE, EEE, ME
An ISO 9001:2015 & ISO 14001:2015 Certified Institution



3.1.1. Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (2021-2022): 8.525 Lakhs

INDEX

Sl. No.	Name of the Project / Endowments, Chairs	Name of the Principal Investigator / Co- investigator	Department of Principal Investigator	Year of Award	Name of the Funding Agency	Amount Sanctioned (Lakhs)	Type (Government / non- Government)	Page No.
1	VTU Young Researcher	Dr. Basavaraju.S and Dr. R G Deshpande	Mechanical Engineering	2022	Visvesvaraya Technological University	8	Government	3
2	Face detection and monitoring in Multiple survelliance footage using convolution neural networks	Dr. Gururaj Murtugudde	Computer Science and Engineering	2021	Karnataka State Council for Science and Technology - 45th Series - SPP	0.05	Government	5
3	Health monitoring system with smart medical kit for elderly people	Prof. Madhushree	Computer Science and Engineering	2021	Karnataka State Council for Science and Technology - 45th Series - SPP	0.06	Government	9
4	Pest detection and obliteration based robotic system	Prof. Madhushree	Computer Science and Engineering	2021	Karnataka State Council for Science and Technology - 45th Series - SPP	0.06	Government	11
5	ANDROID CONTROLLED WILDLIFE OBSERVATION ROBOT	Prof. PRATHIBHA P / Prof. AGALYA P	Electronics and Communication Engineering	2022	Karnataka State Council for Science and Technology - 45th Series - SPP	0.06	Government	12
6	INTELLIGENT PACKAGING SOLUTION	Prof. SHOBHA HUGAR / Dr. PRAKASH JADHAV	Electronics and Communication Engineering	2022	Karnataka State Council for Science and Technology - 45th Series - SPP	0.06	Government	14
7	SOLAR FLOOR CLEANER	Ms. VEENA N / Dr. PRAKASH JADHAV	Electronics and Communication Engineering	2022	Karnataka State Council for Science and Technology - 45th Series - SPP	0.06	Government	16

Sl. No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator / Co- investigator	Department of Principal Investigator	Year of Award	Name of the Funding Agency	Amount Sanctioned (Lakhs)	Type (Government / non- Government)	Page No.
8	COST EFFECTIVE SMART VENTILATOR SYSTEM	Prof. Jhansi K / Dr. Rekha S N	Electrical and Electronics Engineering	2021	Karnataka State Council for Science and Technology - 45th Series - SPP	0.07	Government	18
9	Crop yield prediction model	Dr. H R Ranganatha	Information Science & Engineering	2021- 2022	Karnataka State Council for Science and Technology - 45th Series - SPP	0.045	Government	20
10	Anti Roit Shield with Pepper Spray and Blinding LED	Dr. R G Deshpande	Mechanical Engineering	2022	Karnataka State Council for Science and Technology - 45th Series - SPP	0.06	Government	22



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"ಎ ಬ ಯುಕು ಅಧಿನಯಮ ೧೯೯೪" ರ ಅಧಿಯಲ್ಲ ಕರ್ನಾಬಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ಏಶ್ಯವಿದ್ಯಾಲಯ)

'ಜ್ಞಾನ ಸಂಗಮ', ಬೆಳಗಾವಿ - ೫೯೦ ೦೧೮ ಕರ್ನಾಟಕ ರಾಜ್ಯ

Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VIV Act, 1994) "Jnana Sangama", Belagavi-590 018, Karnataka State, India

Prof. A. S. Deshpande B.E., M. Tech., Ph.D.

Phone: (0831) 2498100 Fax : (0831) 2405467

Ref: VTU/BGM/Aca/A-12/ VTU RGS/DIS -ME/2021-22/ 5862/13

The Principal,

Sapthagiri College of Engineering,

Bengaluru

Sub: Grants for Research Proposal for the year 2021-22

Ref.: 1. VTU/Aca/2021-22/ PS/2019-20/9707, dated 18-03-2020.

2. Hon'ble Vice-Chancellor's approval dt: 11-02-2022

At the outset please accept our congratulations and greetings.

We are pleased to inform you that, the grant of Rs. 8.00 Lakhs (Rupees Eight Lakh only) is sanctioned to the research proposal entitled as "Performance Evaluation of Cryogenically Treated Cemented Carbide Cutting Tool Insetrs in Machining Inconel." submitted by Dr.Basavaraju S. (PI) and Dr.R.G.Deshpande (COI) under VTU Research Grants Scheme -2021.

The expenditure of the sanctioned amount needs to be planned as under.

ne expenditure	e expenditure of the sanctioned amount needs to be planned as un Expenditure Particulars		Second Year (Rs. in Lakhs)	Total (Rs. in Lakhs)
	Fellowship for Research Scholar	<u>Lakhs)</u> 1.44	1.44	2.88
Non-	Equipments/Software/Instruments	3.00	1.00	4.00
Recurring	(Purchase of Desktops/Laptops are not permitted) Consumables (Glass wares/Chemicals)	0.50	0.25	0.75
Recurring	Others (Expenditure towards/ testing / consultancy / publications of research work in terms IPR Registrations (not for paper publications in journals) / TA ~ DA to present a paper in conferences or workshop or symposia in India .		0.12	0.37
	Total (Rs. in Lakhs)	5.19	2.18	8.00
This amount v	ution (75% of the Sanctioned Amount) will be released after receiving the acceptance empliance of Point Number 10,11 & 12 "Terms and Conditions"		2.108	6.00
Institute C Amount)	Point Number 10,11 & 12 in the "Terms and comply accordingly	1 208	0.703	2.00

apthagiri College of Engineering 14/5, Chikkasendra, Hesaraghatta Main Read Bengaturu - 566 957

gof. Basawarijel a Dr Raghawudia Deshipard.

Applicable Terms and Conditions:

- 1. The grant will be released in the name of the Principal of the Institute and Principal Investigator of the project.
- 2. The grant shall be utilized for the purpose for which it has been sanctioned.
- 3. The research activities of the sanctioned projects will be evaluated at the end of each year by committee constituted by VTU. Also, the LIC team of VTU may review the progress.
- Change in heads of expenditure mentioned in the table on the previous page is not permitted.
- 5. The grantee institute has to abide by the guidelines of VTU Research Grant Scheme.
- 6. VTU reserves all the rights to change/modify rules/guidelines in this regard.
- 7. The Principal of the institute shall submit year wise Utilization Certificate (UC) and in the prescribed format and Audit Report (Duly signed by CA) to the undersigned. The subsequent grant will be released only after submission of UC for the grant released earlier along with details of expenditure and satisfactory work progress report.
- 8. The project will last for two years from the day that the Grantee Institute receives the amount of first Installment.
- 9. Any correspondence by the Investigators to the Registrar of VTU shall be routed through the Principal of the Grantee Institute.
- 10. VTU shall release the amount of first installment, after an exclusive Joint Bank Account for the sanctioned project is opened and remitted the Institute share of 25% of the First Year Installment as mentioned in the above table and same shall be intimated to VTU by submitting copy of account statement.
- 11. The exclusive Bank Account must be Join Account in the name of Principal of the Institute and Principal Investigator with the title of the project mentioned as purpose.
- 12. Grantee Institute shall submit account details in the mandate form (enclosed) along with duly signed acceptance letter (Format Enclosed). These are required for issuing the sanction order and release of fund from our end.

Thanking you,

Yours faithfully,

Registrar

Encl:

1) Format of Mandate Form

2) Format of Acceptance letter

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Rand Bengaluru - 560 657



(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

Mr. H. Hemanth Kumar

Executive Secretary

Ref: 7.1.01/SPP/91

11th May, 2022

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

Dear Sir/Madam,

Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_3469

Ref: Project Proposal entitled

FACE DETECTION AND MONITORING IN MULTIPLE

SURVEILLANCE FOOTAGE USING CONVOLUTIONAL NEURAL

NETWORK (CNN)

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

Student(s)	Mr. HARSH P KAVATEKAR Mr. ADITYA SHARMA R Mr. ARUNA KUMAR	Department	COMPUTER SCIENCE AND ENGINEERING
Guide(s)	Dr. GURURAJ MURTUGUDDE	Sanctioned Amount (in Rs.)	5,000.00

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/YMn9K7XETu96i8KbA. 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)

Principal Sapthagirl College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Ro Bengaluru - 560 057

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45S_BE_3469

- 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/PciAaAVisn6bn8AM7. 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,

H. Lece A. (H. Hemanth Kumar)

Copy to:

- 1) The HoD

 COMPUTER SCIENCE AND ENGINEERING

 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Dr. GURURAJ MURTUGUDDE

 COMPUTER SCIENCE AND ENGINEERING

 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

 THE ACCOUNTS OFFICER KSCST, BENGALURU Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057



Telephone: 080-23341652, 23348848, 23348843 | E-mail: office.kscst@iisc.ac.in | Website: www.kscst.org.in Indian Institute of Science Campus, Bengaluru - 560 012



DST - GOI



Mr. HARSH P KAVATEKAR, Mr. ADITYA SHARMA R and This is to certify that Mr. ARUNA KUMAR

students of

SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

participated in the 45th Series of (2021-22) Student Project Programme (SPP)

and completed the project titled FACE DETECTION AND MONITORING IN MULTIPLE SURVEILLANCE FOOTAGE USING CONVOLUTIONAL NEURAL NETWORK (CNN)

under

the guidance of Dr. GURURAJ MURTUGUDDE

This project was adjudged as

"Best Project of the Year" during the Seminar and Exhibition held at Visvesvaraya Technological University (VTU), Belagavi on 12" and 13" August 2022.

This program is supported by Department of Science and Technology, Government of Karnataka and

Department of Science and Technology, Government of India.

(H. Hemanth Kumar) Executive Secretary KSCST

Sapthagiri College of Engineering 14/5, Chikkasandra, Hasaraghatta Wate Road Principal

(Prof. Ashok M. Raichur)

Professor, Department of Materials Engineering, IISc Secretary, KSCST and



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Karnataka State Council for Science and Technology

Indian Institute of Science Campus, Bengaluru - 560 012 Telephone: 080-23341652, 23348848, 23348849 | E-mail: office.kscst@iisc.ac.in | Website: www.kscst.org.in





KUMAR students of SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU participated in the 45" Series of Student Project Programme (SPP) held during 12-13th August, 2022 at Visvesvaraya Technological University (VTU), Belagavi. Their project titled FACE DETECTION NEURAL NETWORK (CNN) under the guidance of Dr. GURURAJ MURTUGUDDE, was selected AND MONITORING IN MULTIPLE SURVEILLANCE FOOTAGE USING CONVOLUTIONAL This is to certify that Mr. HARSH P KAVATEKAR, Mr. ADITYA SHARMA R & Mr. ARUNA for the Seminar/Exhibition.

The SPP is supported by Department of Science and Technology, Government of Karnataka and Department of Science and Technology, Government of India.

(H. Hemanth Kumar)
Executive Secretary
KSCST

Ary Reicher

(Prof. Ashok M. Raichur) Secretary, KSCST and Professor, Department of Materials Engineering, IISc

Muschille Heserochau

Sapthagiri College of Engineering



(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

Mr. H. Hemanth Kumar

Executive Secretary

Ref: 7.1.01/SPP/91

11th May, 2022

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

Dear Sir/Madam,

Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_3854

Ref: Project Proposal entitled

HEALTH MONITORING WITH SMART MEDICINE KIT FOR ELDERLY

PEOPLE

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

	Ms. ARPITHA H K Ms. BHOOMIKA S Mr. DEEPAK B K	Department	COMPUTER SCIENCE AND ENGINEERING
	Mr. KIRAN KUMAR H M	Sanctioned	
Guide(s)	Mrs. MADHUSHREE	Amount (in Rs.)	6,000.00

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/YMn9K7XETu96i8KbA. 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)

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Mala Road Bengaturu - 560 057 Students have completed he report

Buccessfoldy submitted he report

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- 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/PciAaAVisn6bn8AM7. 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,

H. Hemanth Kumar)

Copy to:

- The HoD
 COMPUTER SCIENCE AND ENGINEERING
 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Ms. MADHUSHREE

 COMPUTER SCIENCE AND ENGINEERING

 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 3) THE ACCOUNTS OFFICER KSCST, BENGALURU

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Mam Road
Bengaluru - 560 057



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Mr. H. Hemanth Kumar

Executive Secretary

11th May, 2022

Ref: 7.1.01/SPP/91

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

Dear Sir/Madam,

Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_4478

Ref : Project Proposal entitled PEST DETECTION AND OBLITARATION BASED ROBOTIC SYSTEM

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

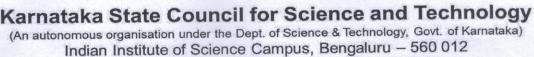
Student(s)	Ms. VARSHA H G Mr. SHIVAKUMAR R E Mr. YUVARAJ N R	Department	COMPUTER SCIENCE AND ENGINEERING
	Ms. NEETU RAO	Sanctioned	
Guide(s)	Ms. MADHUSHREE	Amount (in Rs.)	6,000.00

Instructions:

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

Sapthagirl College of Engineer's

Submitted the project along completed the reput along



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

Mr. H. Hemanth Kumar

Executive Secretary

Ref: 7.1.01/SPP/91

11th May, 2022

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

Dear Sir/Madam,

Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_2917

ANDROID CONTROLLED WILDLIFE OBSERVATION ROBOT Ref: Project Proposal entitled

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

Student(s)	Mr. RAKSHITH D Mr. NIKHIL M KUMAR	Department	ELECTRONICS AND COMMUNICATION ENGINEERING
	Mr. SHASHANK S		COMPONICATION ENGINEERING
Guide(s)	Prof. PRATHIBHA P	Sanctioned Amount (in Rs.)	6,000.00
	Prof. AGALYA P	(III RS.)	· · · · · · · · · · · · · · · · · · ·

Instructions:

- a) The project should be performed based on the objectives of the proposal submitted.
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 - 4) Name of the students & Guide(s)
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 - 7) Objectives (about 10 lines)

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

45S_BE_2917

- 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.
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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,

H. Luca L. (H. Hemanth Kumar)

Copy to:

- The HoD
 ELECTRONICS AND COMMUNICATION ENGINEERING
 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Prof. PRATHIBHA P Prof. AGALYA P
 ELECTRONICS AND COMMUNICATION ENGINEERING
 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- THE ACCOUNTS OFFICER KSCST, BENGALURU

KSCST

(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka)
Indian Institute of Science Campus, Bengaluru – 560 012

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Mr. H. Hemanth Kumar

Executive Secretary

Ref: 7.1.01/SPP/91

11th May, 2022

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

Dear Sir/Madam,

Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_3534

Ref : Project Proposal entitled INTELLIGENT PACKAGING SOLUTION

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

Student(s) Mr	Mr. NITISH R		ELECTRONICS AND
	Mr. HARSHA R L	Department	COMMUNICATION ENGINEERING
	Mr. PAVANKUMAR G V		CONTROLLO
	Mr. UJWAL S	Sanctioned	
Guide(s)	Prof. SHOBHA HUGAR	Amount	6,000.00
	Dr. PRAKASH JADHAV	(in Rs.)	The second secon

Instructions:

- a) The project should be performed based on the objectives of the proposal submitted.
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Sapthagiri College of Engineering Chikkasandra, Hesaraghatta Road, Bangalore- 560 057

- 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.
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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,

If lun ~ (H. Hemanth Kumar)

Copy to:

- 1) The HoD ELECTRONICS AND COMMUNICATION ENGINEERING SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- Dr. PRAKASH JADHAV 2) Prof. SHOBHA HUGAR ELECTRONICS AND COMMUNICATION ENGINEERING SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 3) THE ACCOUNTS OFFICER KSCST, BENGALURU

TO THE STATE OF TH

(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

Mr. H. Hemanth Kumar

Executive Secretary

Ref: 7.1.01/SPP/91

11th May, 2022

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

Dear Sir/Madam,

Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_4474

Ref : Project Proposal entitled SOLAR FLOOR CLEANER

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

Student(s)	Ms. NIHARIKA R H		ELECTRONICS AND
	Mr. RANBIR KUMAR SINGH Departm	Department	COMMUNICATION ENGINEERING
400	Mr. SHUBHAM KUMAR		
	Ms. SPOORTHI M	Sanctioned	
Guide(s)	Ms. VEENA N	Amount	6,000.00
	Mr. PRAKASH JADHAV	(in Rs.)	

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/YMn9K7XETu96i8KbA. 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)

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

- 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/PciAaAVisn6bn8AM7. 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,

H. Kumar L. (H. Hemanth Kumar)

Copy to:

- The HoD
 ELECTRONICS AND COMMUNICATION ENGINEERING
 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Ms. VEENA N Mr. PRAKASH JADHAV ELECTRONICS AND COMMUNICATION ENGINEERING SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- THE ACCOUNTS OFFICER KSCST, BENGALURU



(An autonomous organisation under the Dept. of Science & Technology, Govt. of Karnataka) Indian Institute of Science Campus, Bengaluru - 560 012

Mr. H. Hemanth Kumar

Executive Secretary

Ref: 7.1.01/SPP/91

11th May, 2022

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

Dear Sir/Madam,

Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_3305

Ref: Project Proposal entitled COST EFFECTIVE SMART VENTILATOR SYSTEM

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

Student(s)	Mr. BALAJI A		
	Mr. BHARATH B R	Department	ELECTRICAL AND ELECTRONICS ENGINEERING
	Mr CHARAN O		
	Mr. KIRAN S	Sanctioned	
Guide(s)	Mrs. JHANSI K	Amount	7,000.00
		(in Rs.)	

Comments / Suggestions of the Experts

The breating of the patient is to be sync with the machine. Bring out the practical model.

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/YMn9K7XETu96i8KbA. The synopsis should include following:
 - 1) Project Reference Number
 - 2) Title of the project
 - 3) Name of the College & Department

rincipal Sapthagiff College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Road Bengaluru - 560 057

- 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/PciAaAVisn6bn8AM7. 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,

(H. Hemanth Kumar)

Copy to:

The HoD
 ELECTRICAL AND ELECTRONICS ENGINEERING
 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU

- 2) Mrs. JHANSI K
 ELECTRICAL AND ELECTRONICS ENGINEERING
 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- THE ACCOUNTS OFFICER KSCST, BENGALURU

Sapthagid College of Engineering 14/5, Chikkasandra, Hesaraghatta Main Roas Bengaluru - 560 057

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Mr. H. Hemanth Kumar

Executive Secretary

Ref: 7.1.01/SPP/91

11th May, 2022

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

Dear Sir/Madam,

Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_4551

Ref : Project Proposal entitled CROP YIELD PREDICTION MODEL

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

Student(s)	Ms. SRI VARSHNI K S		INFORMATION COLENCE AND
	Ms. SOWMYA C	Department	INFORMATION SCIENCE AND ENGINEERING
	Ms. SWETHA S		ENGINEERING
	Mr. TEJESH B S	Sanctioned	
Guide(s)	Dr. H R RANGANATHA	Amount	4,500.00
		(in Rs.)	

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/YMn9K7XETu96i8KbA. 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)

Principal
Sapthagirl College of Engineering
14/5, Chikkasandra, Hesaraghatta Muln Road
Bengaluru - 560 057

- 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/PciAaAVisn6bn8AM7. 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,

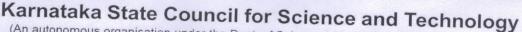
Yours sincerely,

H. Hemanth Kumar)

Copy to:

- 1) The HoD
 INFORMATION SCIENCE AND ENGINEERING
 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Dr. H R RANGANATHA
 INFORMATION SCIENCE AND ENGINEERING
 SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- THE ACCOUNTS OFFICER KSCST, BENGALURU

Sapthagiri College of Engineering 14/5, Chikkasandra, Hesaraghatta Malii Aba Bengaluru - 560 057



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Indian Institute of Science Campus, Bengaluru – 560 012

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

Mr. H. Hemanth Kumar Executive Secretary

Ref: 7.1.01/SPP/91

11th May, 2022

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

Dear Sir/Madam,

Sub: Sanction of Student Project - 45th Series: Year 2021-2022

Project Proposal Reference No.: 45S_BE_3390

Ref : Project Proposal entitled ANTI ROIT SHIELD WITH PEPPER SPRAY AND BLINDING LED

We are pleased to inform that your student project proposal referred above, has been approved by the Council under "Student Project Programme - 45th Series". The project details are as below:

Student(s)	Mr. P K SASIDHAR		January and as below.
	Mr. PRAJWAL R	Department	MECHANICAL ENGINEERING
	Mr. THILAKRAJU V		THE TANIESE ENGINEERING
	Ms. ASHA N	Sanctioned	
Guide(s)	Dr. R.G.DESHPANDE	Amount	6,000.00
		(in Rs.)	0,000.00

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.
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 - 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)



45S_BE_3390

- 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)
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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,

H. Leur L (H. Hemanth Kumar)

Copy to:

- 1) The HoD MECHANICAL ENGINEERING SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 2) Dr. R.G.DESHPANDE MECHANICAL ENGINEERING SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU
- 3) THE ACCOUNTS OFFICER KSCST, BENGALURU