

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
TIRUCHENGODE**

INNOVATION ECO SYSTEM

INDEX

Name of the Cell / Council	Activity	Nature of Participation
Research and Development	IPR	Programs for faculty
		Programs for students
		Patent Filing
	Proposals	Proposals sent by faculty
		Projects submitted by Students
Institution Innovation Council (IIC)	IIC Activities	List of Innovation Ambassadors
		Programs for Faculty
		Programs for Students

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY
Tiruchengode-637 215
Research & Development
LIST OF PROJECT PROPOSALS SUBMITTED TO TNSCST

S. No	Scheme / Proposal Name	Title	Student Name	Guide Name	Amount Applied
1.	TNSCST	Rash Driving Alert System for School, College and Private School	Baskar S Bharathipriyan K Monisa B Athif L	Dr. R. Jeyabharath	Rs. 10,000
2.	TNSCST	E-Bicycle rental System	Arvindkumar N Gokulraj P Mythreya J Prasath S	Dr. P. Veena	Rs. 10,000
3.	TNSCST	Innovative IoT enabled bed for infants equipped with an auto quick dry sheet changer at bed wetting	Nandhakumar J Gokul P Meiyarasu K Sankar S	Dr. T. Srihari	Rs. 10,000
4.	TNSCST	Smart Wearable System to Deafened for Doorbell Indication	Hemalatha S Sarathivasan J Vijay E	Dr. C. Santha Kumar	Rs. 10,000
5.	TNSCST	IoT based Rash Driving Detection and Alert System	Gokulrayar R Jambukesh I Savuriyappan S Tamilarasan K	Dr. A. Murugesan	Rs. 10,000
6.	TNSCST	Remote Accessible Irrigation System	Dheenathayalan G Dhatchanamoorthi A Naveen N Sridhar D	Y Kalimuthu	Rs. 10,000
7.	TNSCST	Gaming Dustbin controlled by Sensors	Balaji S Devaprasath V Jaillesh K Yogech K	V.Prakasham	Rs.9,800
8.	TNSCST	Driver Hiring Application	Aarthi M Bhuvan Shankar B Kavya Priyadharshini M Sharmila R	S.Hamsareka	Rs.16,540

9.	TNSCST	Augmented Reality Based E-Commerce	Maheshkumar K S Soundarya GG Surendhiran S Logeshwaran M	Dr.B.Kalaavathi	Rs.40,000
10.	TNSCST	Patient Report Stowing System	Jothivel D Kavin M Kiruthika S Muthuselvi A	V.Sowmitha	Rs.45,000
11.	TNSCST	Virtual Queueing System in Ration Shop	Gowsalya G Gowsikan R Subash S Sushma R	V.Gopinath	Rs.33,999
12.	TNSCST	Alexa Story Telling Software in Tamil	Ishwarya R Hemalatha Devi P Soundarya C Rajkumar S	S.Vimala	Rs.55,000
13.	TNSCST	Smart Health Monitoring System for ICU Patients	Reshma R Srija M Hari Billgates S Naveen A	V.Gopinath	Rs.7,300
14.	TNSCST	Intelligent Luminus Control	Pavithra M Vaishnavi K Yosodha S	Dr.S.Premalatha	Rs.7,500
15.	TNSCST	Smart Shoes using IoT	Dharani B Deepthee M Abarna V Shalini S	T.Marthandan	Rs.7,500
16.	TNSCST	Optimized Irrigation System using IoT based Soil Moisture and Weather Monitoring	Amutha K Kannan M Thangaraj K	T.Marthandan	Rs.7,500
17.	TNSCST	Design and Fabrication of Scotch Yoke Mechanism using Double side water pumping system	Kavin S Krishnakumar R Prasanth S Samrat G	P.Chakkarvarthi	Rs.7,500
18.	TNSCST	Design and Fabrication of Scotch Yoke Mechanism using Automatic stamping machine	Kavin kumar S Kaviraj G Manivasagam M Vignesh G	Amarnath	Rs.7,500

19.	TNSCST	Design and Fabrication of Automatic door opening using ARDUINO	Sridhar P Sudarshan R Vijay S Vimalkumar V	Vasanthakumar	Rs.7,500
20.	TNSCST	Design and Fabrication of Wall painting Robot	Arulbharathi GV Chandru K Manikandan P Saran K	K. Balamurugan	Rs.7,500
21.	TNSCST	Design and Fabrication of Break drum using composite materials	Boobalan S Dhanasekar D Gowtham K	P.Chakkarvarthi	Rs.7,500
22.	TNSCST	Design and Fabrication of E-Bike	Jayaprakash S Praveen M Rajasekar S Sathishkumar V	P.Gopinath	Rs.7,500
23.	TNSCST	Design and Fabrication of worm gear screw jack	Arivazhahan R Dharaneeshwara NN Venkatesh P Yogesh G	P.Gopinath	Rs.7,500
24.	TNSCST	Design and Fabrication of Reverse Braking system	Ariharan M Arun prakash KA Karthick raja V Monishvaran T	K. Balamurugan	Rs.7,500
25.	TNSCST	Design and Fabrication of Oil skimmer	Gopinath S Krishnan S Ramkumar S Srinath S	P.Gopinath	Rs.7,500
26.	TNSCST	Design and Fabrication of Solar Lawn Mower	Selvaraj K Vikram S Kavin G Aswin M	Vasanthakumar	Rs.7,500

**RASH DRIVING ALERT SYSTEM
FOR SCHOOL, COLLEGE AND PRIVATE ROUTE BUS**

Submitted to
TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE CAMPUS, CHENNAI-600025




Submitted By

BASKAR S	(Reg.No: 731618105002)
BHARATHIPRIYAN K	(Reg.No: 731618105003)
MONISA B	(Reg.No: 731618105012)
ATHIF L	(Reg.No: 731618105301)

BACHELOR OF ENGINEERING
in
ELECTRICAL AND ELECTRONICS ENGINEERING
K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY
TIRUCHENGODE-637 215

x


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K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R, KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

Engineering Stream

Project to be considered under the Sector: CSE-CSE/IT/Computer Application/Software; ECV-Civil Engineering; EME-Mechanical/ Mechatronics/ Production/automobile etc; EEE-EEE/ECE/EIE/ICE; CHE-Chemical Engineering

	CSE	ECV	EME	EEE	CHE
CODE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Institution Details

INSTITUTION CATEGORY *

	GOVT.	SELF FINANCE	GOVT. AIDED	UNIVERSITY
STATUS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

STUDENT(S) NAME (Maximum 4 students) *

Baskar S, Barathipriyan K, Monisa B, Athif L

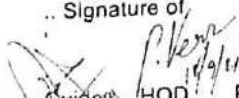
STUDENT STUDYING *

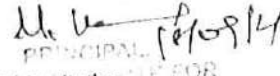
	U.G ENGINEERING	P.G PROFESSIONAL COURSE	P.G SCIENCE
COURSE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>


CERTIFICATE

This is to certify that Mr./Miss. V. P. JEYABHARATHI is a bonafide final year student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

... Signature of


Guide HOD
DR. P. VEENA, M.E., PH.D.,
Professor & Head
Department of EEE
K.S.R INSTITUTE FOR


PRINCIPAL
Principal/ Head of the Institution
K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,
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NAMAKKAL Dt., TAMIL NADU.


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TIRUCHENGODE-637 215,
NAMAKKAL Dt., TAMIL NADU.

E-BICYCLE RENTAL SYSTEM

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

ARVIND KUMAR N	(Reg.No: 731618105001)
GOKULRAJ P	(Reg.No: 731618105007)
MYTHREYAN J	(Reg.No: 731618105013)
PRASATH S	(Reg.No: 731618105502)

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in

ELECTRICAL AND ELECTRONICS ENGINEERING

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TIRUCHENGODE-637 215


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TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

Engineering Stream

Project to be considered under the Sector: CSE-CSE/IT/Computer Application/Software; ECV-Civil Engineering; EME-Mechanical/ Mechatronics/ Production/automobile etc; EEE-EEE/ECE/EIE/ICE; CHE-Chemical Engineering

	CSE	ECV	EME	EEE	CHE
CODE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Institution Details

INSTITUTION CATEGORY *

	GOVT.	SELF FINANCE	GOVT. AIDED	UNIVERSITY
STATUS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

STUDENT(S) NAME (Maximum 4 students) *

Arvind Kumar.N, Gokulraj.P,Mythreyan.J,Prasath.S

STUDENT STUDYING *

	U.G ENGINEERING	P.G PROFESSIONAL COURSE	P.G SCIENCE
COURSE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

CERTIFICATE

This is to certify that Mr./Miss. DY. P. VEENA is a bonafide final year student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

[Signature]
Dr. P. VEENA, M.E., Ph.D.
HOD, Principal & Head
Department of EEE
K.S.R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY

[Signature]
PRINCIPAL
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ENGINEERING AND TECHNOLOGY
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU

[Signature]
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K S R INSTITUTE FOR
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU

**OPTIMIZED IRRIGATION SYSTEM USING IOT BASED SOIL
MOISTURE AND WEATHER MONITORING**

A PROJECT REPORT

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI – 600 025



TNSCST

Submitted by

AMUTHA K (731618106003)

KANNAN M (731618106014)

THANGARAJ K (731618106032)

In Partial Fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that's Ms. AMUTHA K is a bonafide final year student of Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council at the completion of the project by the end of April 2022.

T. Madhavan
22/9/21

Signature of the Guide

P. Vignesh
23/9/21

Signature of the HoD

M. Vignesh
23/9/21

Signature of the Principal

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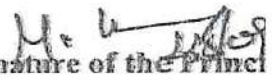
K. S. R. KALVI NAGAR
TIRUCHENGODE-637 2
NAMAKKAL DISTRICT, TAMIL NADU

CERTIFICATE

This is to certify that's Mr. KANNAN M is a bonafide final year student of Engineering of our college and it is also certified that two copies of Utiliza certificate and final report along with seminar paper will be sent to the council a completion of the project by the end of April 2022.



Signature of the Guide



Signature of the HoD

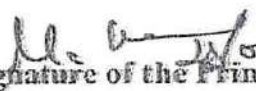

Signature of the Principal
PRINCIPAL.
K. S. R. INSTITUTE F
ENGINEERING AND TECH
K. S. R. KALVI NAG,
TIRUCHENGODE-637
NAMAKKAL DI. TAMIL NA

CERTIFICATE

This is to certify that Mr. **THANGARAJ K** is a bonafide final year student of U.G Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council on completion of the project by the end of April 2022.


Signature of the Guide


Signature of the HoD


Signature of the Prin

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K. S. R. KALVIN
TIRUCHENGODE-
K. S. R. KALVIN TAMIL

Innovative IoT enabled bed for infants equipped with an auto quick dry sheet changer at bed wetting

under the student project proposal 2021-2022

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By:

Guide:

Dr T SRIHARI, Professor /EEE

Project Team Members:

NANDHAKUMAR J (Reg.No: 731618105014)

GOKUL P (Reg.No: 731618105006)

MEIYARASU K (Reg.No: 731618105011)

SANKAR S (Reg.No: 731618105016)

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TIRUCHENGODE-637 215,
NAMBARKAL DI, TAMIL NADU.

INSTITUTION CATEGORY *

GOVT. SELF FINANCE GOVT. AIDED UNIVERSITY

STATUS

STUDENT(S) NAME (Maximum 4 students) *

Nandhakumar J., Gokul P., Meiyarasu K., Sankar S.

STUDENT STUDYING *

U.G ENGINEERING P.G PROFESSIONAL COURSE P.G SCIENCE

COURSE

CERTIFICATE

This is to certify that Mr./Miss _____ is a bonafide final year student of P.G Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

[Signature]
15/9/2021
Dr. S. R. HARI, M.E., Ph.D.,
Project Coordinator
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.

Signature of
[Signature]
14/9/21
HOD
Dr. P. VEENA, M.E., Ph.D.,
Professor & Head
Department of EEE
K.S.R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
TIRUCHENGODE-637 215
NAMAKKAL DISTRICT, TAMIL NADU

[Signature]
12/09/21
Principal/ Head of
the Institution
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY
K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU

Note:
N.B. 2 copies of the proposals are to be submitted through proper channel to The Member Secretary,
TNSCST, DOTE Campus, Chennai - 600 025 on or before 17 September 2021, 5.00PM

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NAMAKKAL DISTRICT, TAMIL NADU.

SMART WEARABLE SYSTEM TO DEAFENED FOR DOORBELL INDICATION

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600 025



Submitted By

HEMALATHA S (Reg.No: 731618105009)

SARATHIVASAN J (Reg.No: 731618105017)

VIJAY E (Reg.No: 731618105022)

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K S R, KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.

HEMALATHA S, SARATHIVASAN J , VIJAY E

STUDENT STUDYING *

U.G ENGINEERING P.G PROFESSIONAL COURSE P.G SCIENCE

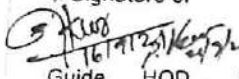
COURSE



CERTIFICATE

This is to certify that Mr./Miss. HEMALATHA S SARATHIVASAN J, VIJAY E is a bonafide final year student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of


Guide

HOD

HEAD OF THE DEPARTMENT,

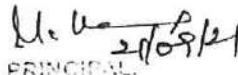
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K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY.

TIRUCHENGODE-637 215.

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Principal

PRINCIPAL

K. S. R. INSTITUTE FOR

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Principal

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K S R KALVI NAGAR,

TIRUCHENGODE-637 215,

NAMAKKAL DI, TAMIL NADU.

IOT BASED RASH DRIVING DETECTION AND ALERT SYSTEM

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

GOKULRAYAR R	(Reg.No: 731618105008)
JAMBUKESH I	(Reg.No: 731618105010)
SAVURIYAPPAN S	(Reg.No: 731618105018)
TAMILARASAN K	(Reg.No: 731618105302)

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K S R KALVINAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI. TAMIL NADU.

Institution Details

INSTITUTION CATEGORY *

GOVT. SELF FINANCE GOVT. AIDED UNIVERSITY

STATUS

STUDENT(S) NAME (Maximum 4 students) *

Gokulrayar R, Jambukesh I, Savuriyappan S, Tamilarasan K

STUDENT STUDYING *

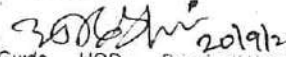
U.G ENGINEERING P.G PROFESSIONAL COURSE P.G SCIENCE

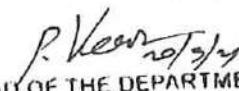
COURSE


CERTIFICATE

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Signature of

 2019/21
Guide HOD - Principal/Head of the Institution

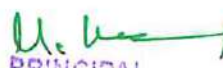

HEAD OF THE DEPARTMENT,
DEPARTMENT OF EEE.,
K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
TIRUCHENGODE-637 215.


PRINCIPAL,
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU

Note:

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TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

REMOTE ACCESSIBLE IRRIGATION SYSTEM

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

DEENATHAYALAN G (Reg.No: 731618105004)

DHATCHANAMOORTHY A (Reg.No: 731618105005)

NAVEEN N (Reg.No: 7316'8105015)

SRIDHAR D (Reg.No: 731618105019)


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K S R KALVI NAGAR,
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NAMAKKAL DI. TAMIL NADU.

Engineering Stream

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	CSE	ECV	EME	EEE	CHE
CODE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Institution Details

INSTITUTION CATEGORY *

GOVT. SELF FINANCE GOVT. AIDED UNIVERSITY

STATUS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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STUDENT(S) NAME (Maximum 4 students) *

Deenathayalan G, Dhatchanamoorthis A, Naveen N, Sridhar D

STUDENT STUDYING *

U.G ENGINEERING P.G PROFESSIONAL COURSE P.G SCIENCE


COURSE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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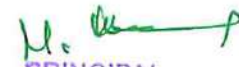
CERTIFICATE

DEENATHAYALAN-G, DHATCHANAMOORTHIA
NAVEEN-N, SRIDHAR D

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Signature of


Professor & Head
Department of EEE
K.S.R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
TIRUCHENGODE-637
Principal
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
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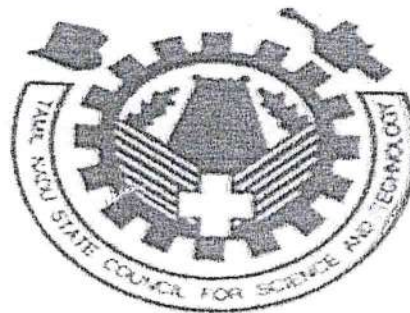
Smart shoes using IOT

A PROJECT REPORT

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI – 600 025



TNSCST

Submitted by

DHARANI B	(731618106006)
DEEPTHEE M	(731618106004)
ABARNA V	(731618106701)
SHALINI S	(731618106030)

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE – 637 215

CERTIFICATE

This is to certify that Ms. DEBARANI B is a bonafide final year student of U.G engineer of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the A, 2022.

[Handwritten Signature]
22/9/21
Signature of the Guide

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22/9/21
Signature of the HoD

[Handwritten Signature]
22/9/21
Signature of the
Principal

HEAD OF THE DEPARTMENT,
Department of ECE,
K S R Institute for Engineering and Technology,
TIRUCHENGODE-637 215.

PRINCIPAL,
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY
K. S. R. KALVI NAGAR
TIRUCHENGODE-637 215
NAMAKKAL Dt. TAMIL NADU.

CERTIFICATE

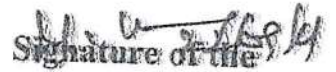
This is to certify that Ms. DEEPTHEE M is a bonafide final year student of U.G engineering of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022



Signature of the Guide



Signature of the HoD



Principal

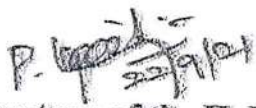
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K S R Institute for Engineering and Technology,
TIRUCHENGODE - 617 015.


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ENGINEERING AND TECHNOLOGY
K. S. R. KALYANALAYAM
TIRUCHENGODE - 617 216,
NAMAIKKAL Dt, TAMIL NADU.

CERTIFICATE

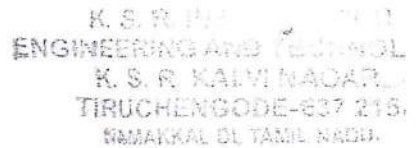
This is to certify that Ms. ABARNA V is a bonafide final year student of U.G engineering of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.


Signature of the Guide


Signature of the HoD


Signature of the Principal

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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
SRIMAKKAL DISTRICT, TAMIL NADU.

CERTIFICATE

This is to certify that Ms. SHALINI S is a bonafide final year student of U.G engineering of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.

T. Mani
21/07/21

Signature of the Guide

P. Suresh
20/7/21

Signature of the HoD

M. V. Srinivasan

Signature of the

Principal

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K S R Institute for Engineering and Technology,
TIRUCHENGODE-637 215.

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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.

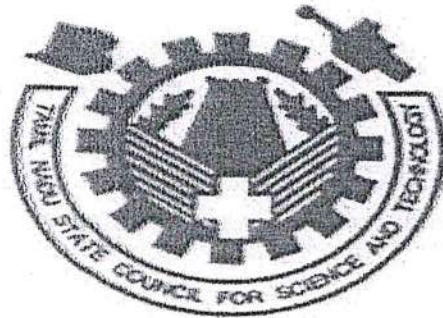
INTELLIGENT LUMINOUS CONTROL

A PROJECT REPORT

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI - 600 025



TNSCST

Submitted by

M.PAVITHRA (731618106020)

K.VAISENAVI (731618106034)

S.YASODHA (731618106035)

In Partial Fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

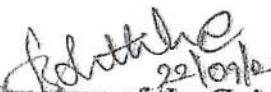
ELECTRONICS AND COMMUNICATION ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY


TIRUCHENGODE - 637 215

CERTIFICATE

This is to certify that Ms. M.PAVITHRA is a bonafide final year student of U.C Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.


Signature of the Guide


Signature of the HoD

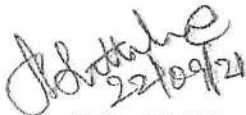

Signature of the Principal

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Department of ECE,
K S R Institute for Engineering and Technology,
TIRUCHENGODE-637 215.

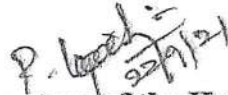
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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 21
NAMAKKAL DL, TAMIL NADU.

CERTIFICATE

This is to certify that Ms.K.VAISHNAVI is a bonafide final year student of U.G Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.


22/09/21

Signature of the Guide


22/9/21

Signature of the HoD

HEAD OF THE DEPARTMENT,
Department of ECE,
K S R Institute for Engineering and Technology,
TIRUCHENGODE-637 215.


22/09/21

Signature of the Principal
PRINCIPAL,
K. S. R. INSTITUTE FOR
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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.

CERTIFICATE

This is to certify that **Ms. S.YASODHA** is a bonafide final year student of U.C Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.

[Handwritten Signature]
22/09/21

Signature of the Guide

[Handwritten Signature]
22/9/21

Signature of the HoD

HEAD OF THE DEPARTMENT,
Department of ECE,
K S R Institute for Engineering and Technology,
TIRUCHENGODE-637 215.

[Handwritten Signature]
22/9/21

Signature of the Principal

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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMARKAL DL TAMIL NADU.

AUTOMATIC DOOR OPENER USING ARDUINO AND PIR SENSOR

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

SRIDHAR P	(Reg.No: 731618114029)
SUDARSHAN R	(Reg.No: 731618114031)
VIJAY S	(Reg.No: 731618114034)
VIMALKUMAR V	(Reg.No: 731618114304)

BACHELOR OF ENGINEERING


in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215

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K. S. R. Kalvi Nager,
TIRUCHENGODE - 637 215,
NAMAIGAL DL, TAMIL NADU.

CERTIFICATE

This is to certify that Mr. SRIDHAR P is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

B. V. Mani
TST/21
Guide

[Handwritten Signature]
HoD

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Principal/ Head of the

Institution

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TIRUCHENGODE - 637 215,
NAMAKKAL Dt, TAMIL NADU.

DESIGN AND FABRICATION OF DOUBLE SIDE PUMP USING SCOTCH YOKE MECHANISM

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted by

KAVIN S

731618114014

KRISHNAKUMAR R

731618114017

PRASANTH S

731618114022

SAMRAT G

731618114026

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215

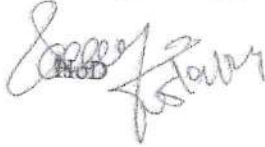
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TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

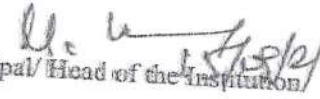
CERTIFICATE

This is to certify that Mr. SAMRAT G is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.



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Principal/ Head of the Institution

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TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

SCOTCH YOKE MECHANISM USING AUTOMATIC STAMPING MACHINE

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

KAVIN KUMAR S

(Reg.No: 731618114015)

KAVIRAJ G

(Reg.No: 731618114016)

MANIVASAGAM M

(Reg.No: 731618114020)

VIGNESH G

(Reg.No: 731618114033)


BACHELOR OF ENGINEERING

in

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TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

CERTIFICATE

It is to certify that Mr. VIGNESH G is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022

Signature of

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HOD

[Handwritten signature]
Principal/ Head of the Institution

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TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

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uide 121

AUTOMATIC DOOR OPENER USING ARDUINO AND PIR SENSOR

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

SRIDHAR P

(Reg.No: 731618114029)

SUDARSHAN R

(Reg.No: 731618114031)

VIJAY S

(Reg.No: 731618114034)

VIMALKUMAR V

(Reg.No: 731618114304)

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TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

CERTIFICATE

This is to certify that Mr. SRIDHAR P is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

Guide

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HOD

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Principal/ Head of the

Institution

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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL. TAMIL NADU.

WALL PAINTING ROBOT

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

MANIKANDAN P

(Reg.No: 731618114019)

SARAN K

(Reg.No: 731618114027)

CHANDRU K

(Reg.No: 731618114006)

ARUL BHARATHI G V

(Reg.No: 731618114003)

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215

PROJECT PROPOSAL


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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI. TAMIL NADU.

CERTIFICATE

This is to certify that Mr.Manikandan P is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

M. P. Manikandan
Guide

[Signature]
HOD

[Signature]
Principal/ Head of the Institution

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NAMAKKAL DL. TAMIL NADU.

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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL. TAMIL NADU.

DESIGN AND FABRICATION OF BRAKE DRUM USING COMPOSITE MATERIALS

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025




Submitted By

BOOBALAN.S	(Reg.No: 731618114005)
DHANASEKAR.D	(Reg.No: 731618114007)
GOWTHAM.K	(Reg.No: 731618114011)

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NAMAKKAL DL, TAMIL NADU.


CERTIFICATE

This is to certify that Mr. GOWTHAM K is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


Signature of


Guide


Student


Principal/ Head of the Institution

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TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

DESIGN AND FABRICATION OF e-BIKE

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

JAYAPRAKASH S	(Reg.No: 731618114012)
PRAVEEN M	(Reg.No: 731618114023)
RAJASEKAR S	(Reg.No: 731618114024)
SATHEESH KUMAR V	(Reg.No: 731618114303)

BACHELOR OF ENGINEERING

in

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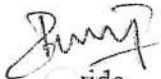

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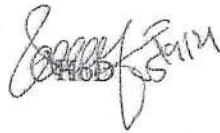
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TIRUCHENGODE-637 215,
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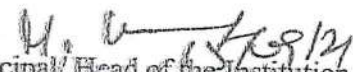
CERTIFICATE

This is to certify that Mr. JAYAPRAKASH S is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


Signature of


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HOD


Principal/ Head of the Institution

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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
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TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

SCREW JACK USING WORM GEAR

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

ARIVAZHAHAN R (Reg.No: 731618114002)

DIHARANEESHWARAN N (Reg.No: 731618114008)

VENKATESH P (Reg.No: 731618114032)

YOGESH G (Reg.No: 731618114036)


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TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

CERTIFICATE

This is to certify that Mr. DHARANEESHWARAN N is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

A.P.
side

[Handwritten Signature]
HOD
15/04/21

[Handwritten Signature] 15/04/21
Principal/ Head of the Institution

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ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
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NAMAKKAL DI, TAMIL NADU.

[Handwritten Signature]
PRINCIPAL,
K S R INSTITUTE FOR
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

**DESIGN AND FABRICATION OF
INTELLIGENT REVERSE BRAKING SYSTEM**

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

ARHARAN . M (Reg.No: 731618114001)

ARUN PRAKASH . K A (Reg.No: 731618114004)

KARTHICK RAJA . V (Reg.No: 731618114013)

MONISHVARAN . T (Reg.No: 731618114021)

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in

MECHANICAL ENGINEERING

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K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.


CERTIFICATE

This is to certify that Mr. KARTHICK RAJA V is a bonafide final year student of U.G. engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


Signature of


Guide


HoD


Principal/ Head of the Institution

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TIRUCHENGODE-637 215,
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

OIL SKIMMER

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

KRISHNAN S	(Reg.No: 731618114018)
GOPINATH S	(Reg.No: 731618114016)
RAMKUMAR S	(Reg.No: 731618114025)
SRINATH S	(Reg.No: 731618114030)

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215

PROJECT PROPOSAL


PRINCIPAL.

K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVINAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL Dt, TAMIL NADU.

CERTIFICATE

This is to certify that Mr. Gopinath S is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

g P. S. S
15/01/21
de

[Handwritten Signature]
HoD 15/01/21

[Handwritten Signature]
Principal/ Head of the Institution

PRINCIPAL,
K. S. R. INSTITUTE FOR
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TIRUCHENGODE-637 215,
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI. TAMIL NADU.

DESIGN AND FABRICATION OF SOLAR LAWNMOWER

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted by

KAVIN G	731618114701
VIKRAM S	731618114035
SELVARAJ K	731618114028
ASWIN M	731618114501


BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215


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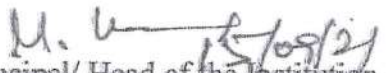
CERTIFICATE

This is to certify that Mr. KAVIN G is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


Signature of


Guide


HOD


Principal/ Head of the Institution

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NAMAKKAL DI, TAMIL NADU.

COMPUTERIZED PROCESS OF PROFICIENT CAMPAIGN FOR STUDENTS IN COLLEGE MANAGEMENT SYSTEM

A PROJECT REPORT

Submitted to

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE
CAMPUS, CHENNAI-600025



Submitted By

HARINI V	(Reg. No. 731618205010)
KAVYADEVI V	(Reg. No. 731618205012)
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in

INFORMATION TECHNOLOGY

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE - 637 215


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TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE Campus, Chennai-600025

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- Phone No. & Mobile No. : 90253 74457
3. Project Title : COMPUTERIZED PROCESS OF
PROFICIENTI CAMPAIGN FOR
STUDENTS IN COLLEGE
MANAGEMENT SYSTEM
4. Sector in which my Project : Engineering and Tech.
(Computer Science)
5. Project Details : 1. Introduction 4. Work Plan
2. Objectives 5. Budget
3. Methodology 6. Any other details
6. Has a similar project been carried : No
out in your college / elsewhere? If
so furnish details of the previous
project and highlight the
improvements suggested in the
present one

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Student Project Scheme -2021-2022

Applicant's registration for data collection. Fill required details. Take a printout of the same, get signatures and send it with project details. [3 pages only].

Email *


nivedhavijayakumar1029@gmail.com

GUIDE NAME *

S.S.Ramyadharshni

DESIGNATION *

Assistant Professor


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Information Technology

NAME OF THE INSTITUTION *

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INSTITUTION ADDRESS WITH PINCODE *

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Tiruchengode,637215

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TITLE OF THE PROJECT *

COMPUTERIZED PROCESS OF PROFICIENT CAMPAIGN FOR STUDENTS IN COLLEGE
MANAGEMENT SYSTEM

STREAM *

Science


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ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU

Engineering

Engineering Stream

Project to be considered under the Sector: CSE-CSE/IT/Computer Application/Software; ECV-Civil Engineering; EME-Mechanical/ Mechatronics/ Production/automobile etc/; EEE-EEE/ECE/EIE/ICE; CHE-Chemical Engineering

	CSE	ECV	EME	EEE	CHE
CODE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Institution Details

INSTITUTION CATEGORY *

	GOVT.	SELF FINANCE	GOVT. AIDED	UNIVERSITY
STATUS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

STUDENT(S) NAME (Maximum 4 students) *


V.NIVEDHA, V.HARINI, B.PRIYADHARSHINI, V.KAVYADEVI


STUDENT STUDYING *

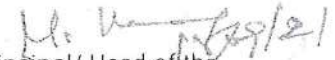
	U.G ENGINEERING	P.G PROFESSIONAL COURSE	P.G SCIENCE
COURSE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Signature]
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K S R KALVI NAGAR,
TIRUCHENGODE-639 213, CERTIFICATE
NAMAKKAL Dt. TAMIL NADU.

This is to certify that Mr./Miss. V. NIVEDHA, V. HARINI, V. KAVYA DEVI, B. PRIYADHARSINI is a bonafide final year student of P.G. ~~Science~~ / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


Guide
Institution

Signature of

HOD


Principal/ Head of the

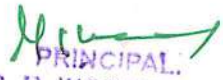
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Note:

N.B.: 2 copies of the proposals are to be submitted through proper channel to The Member Secretary, TNSCST, DOTE Campus, Chennai - 600 025 on or before 17 September 2021, 5.00PM

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K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

RESEARCH AND DEVELOPMENT CELL

PATENT DETAILS OF ALL DEPARTMENTS

ACADMIC YEAR 2021-22

1	Artificial Intelligence Based Diagnosis of Malignant Skin Disease Using Classification Algorithm	Dr.B.Kalaavathi	Application No.202121060792 A Publication Date : 07/01/2022	Published
2	Precision Analysis of Digital Agriculture	Dr. M.Vimaladevi	Application No.202241009176 A Publication Date : 04/03/2022	Published
3	Smart And Safe Gas Flow Pipeline Based On IoT For Cooking Appliances	Dr.L.Selvam	Application No. 202241007263A Publication Date : 25.02.2022	Published
4	Cloud Based Emergency Patient Monitoring System	Dr.L.Selvam	Application No. 202241010461A Publication Date : 04.03.2022	Published
5	Fully automatic commercial line vehicle assembly line System	Dr. P.Kanakarajan	Application No.202241007000 A 25.02.2022	Published
6	Mobile Based Accident Detection and Alert System	Dr.R.Prabhu	Application No. 202111032969 Publication Date : 20.08.2021	Published

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED DIAGNOSIS OF MALIGNANT SKIN DISEASE USING CLASSIFICATION ALGORITHM

(51) International classification :H04L0029080000, G06T0007620000, G06T0007110000, G06T0007900000, G06T0007000000
 (86) International Application No :NA
 Filing Date :NA
 (87) International Publication No :NA
 (61) Patent of Addition to Application Number :NA
 Filing Date :NA
 (3) Divisional to Application Number :NA
 Filing Date :NA

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 9)Niranjan Samudre
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(57) Abstract :
 System and method for detecting illnesses or conditions using digital photographs captured by a distant user with a smartphone or digital camera and submitted to an image analysis server connected to a distributed network are described. The image analysis server is equipped with a learning machine taught to classify the photos in question. The user-provided picture is preprocessed to extract dimensions, form, and color characteristics. It is processed using a trained learning machine to categorize the image using the extracted features. A post-processing step is performed on the classification result to create a risk score, then provided to the remote user. A database connected with the server may include referral information that may be used to match the distant user with a local physician based on their geographic location. It is possible to gather financial information to ensure payment for analytic services, which is an optional activity.

Diagram:

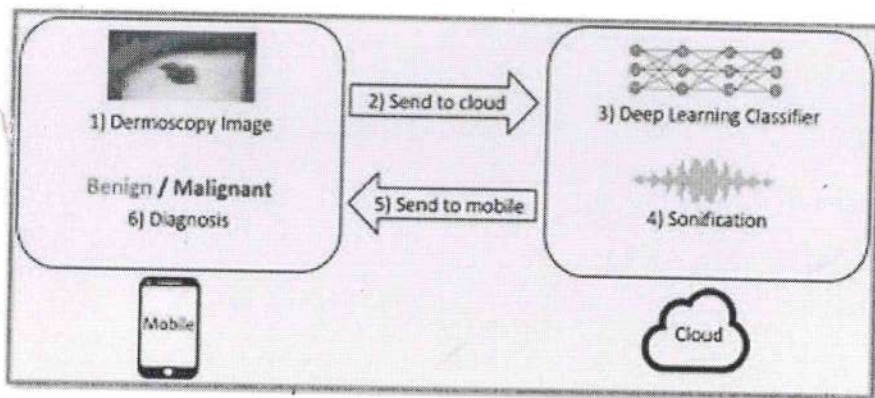


Figure 1: Proposed invention functional flow diagram

No. of Pages : 22 No. of Claims : 3

(54) Title of the invention : PRECISION ANALYSIS OF DIGITAL AGRICULTURE

(51) International classification :G06Q0050020000, H04L0029080000, A01G0009140000, A01G0025000000, G01W0001020000

(36) International Application No Filing Date :PCT// :01/01/1900

(87) International Publication No :NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

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4)Dr. B.SENTHIL KUMAR

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(57) Abstract :

In this present scenario, the conventional information base worldview does not have sufficient capacity for the information delivered by Internet of Things (IoT) gadgets prompts the need of distributed storage. These information's are broke down with the assistance of Big Data mining procedures. Cloud based enormous information investigation and the IoT innovation performs a significant job in the attainability investigation of perceptive horticulture. Perceptive or accuracy horticultural frameworks are assessed to play a fundamental job in further developing farming exercises. Cell puone use is extremely normal by everybody, including the farmers. In that, in the everyday existence of farmers the Information and Communication Tools (ICT) assume a fundamental part to get the horticultural Data. The IoT has different applications in Digital Farming area like observing the yield development, determination of the compost, water system choice emotionally supportive network, and so on. Agriculture is one of the fundamental enhancements of our public. Soil is vital for related agriculture. The creation of soil varies from one soil to another. The Growth of Crops is disappeared with those substance capacities of soil. Picking the appropriate kind of vegetation for that particular kind of soil is moreover fundamental. AI methodologies might be utilized to arrange the soil assortment measurements this endeavor gives a dirt recovery device, which takes, enter photo as a Soil pictures taken from area Using Deep learning information on set of rules to arrange soil and moreover exhort the harvest data and deal the weather pattern. Numerous farmers need money and need to dispose of their items as quickly as time permits. In this research, IoT gadget is utilized to detect the horticultural information and it is put away into the Cloud information base.

No. of Pages : 13 No. of Claims : 6

(54) Title of the invention : SMART AND SAFE GAS FLOW PIPELINE BASED ON IOT FOR COOKING APPLIANCES

(51) International classification :H04W0004120000, H04L0012580000, F24C0003120000, G08C0017020000, G08D0021100000

(56) International Application No : PCT/ IN/2019/011800

(57) International Publication No : NA

(61) Patent of Addition to Application Number : NA

(62) Divisional to Application Number : NA

(63) Filing Date : NA

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7)ASHIRBAD SAHOO
8)SANJAY SINGH THAKUR
9)DHARMBIR SINGH
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(57) Abstract :
 A smart and safe gas flow pipeline based on IOT for cooking appliances is the proposed invention. The proposed system implements an IOT based gas supply pipeline that will send alert, message and notifications to the registered mobile phone of the user in case of emergency or leakage. The proposed invention will provide a safer cooking system by voiding fire accidents and disasters.

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : SMART AND SAFE GAS FLOW PIPELINE BASED ON IOT FOR COOKING APPLIANCES

(51) International classification: H04W0004(2009), H04L001250000, F24C0003(2009),
 CosC0017020000, C04B0021180000
 (56) International Application No: PCT//
 Filing Date: 01/01/2020
 (57) International Publication No: NA
 (61) Prior Art Addition to Application Number: NA
 Filing Date: NA
 (62) Divisional to Application Number: NA
 Filing Date: NA

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JASHIRHAD SAHOO
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(57) Abstract :
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No. of Pages : 12 No. of Claims : 5

(1) PATENT APPLICATION PUBLICATION

(21) Application No.202241007000 A

(19) INDIA

(22) Date of filing of Application :09/02/2022

(43) Publication Date : 25/02/2022

(54) Title of the invention : Fully automatic commercial line vehicle assembly line system

(51) International classification :G05B0019418000, G06Q0010080000, G06Q0010060000, G06Q0050040000, B62D0065020000
(86) International Application No :PCT// Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA Filing Date :NA
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3)Dr. M.SIVAKUMAR
4)Dr. R.RAMESH KUMAR
5)Dr. IVAN SUNIT ROUT
6)Dr. ARVIND BODHE
7)Dr. BODA SURYA VENKATA RAMARAO
8)Dr. P.KANAKARAJAN

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. M. SRINIVASNAIK
Address of Applicant :Assistant Professor in the Department of Mechanical Engineering, Faculty of Engineering and Technology, Chaitanya Deemed to be University, Kishanpura, Hanmakonda, Warangal, Telangana, India, Pin: 506001. --

2)Dr. PAL PANDIAN P
Address of Applicant :Professor and CoOrdinator, Department of Mechanical and Automobile Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore Kengeri Campus, Kanminike, Kumbalgodu, Mysore Road, Bengaluru-560074, Karnataka-State, India. -----

3)Dr. M.SIVAKUMAR
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF AUTOMOBILE ENGINEERING, K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE - 637215. -----

4)Dr. R.RAMESH KUMAR
Address of Applicant :PROFESSOR, DEPARTMENT OF AUTOMOBILE ENGINEERING, K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE - 637215. -----

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Address of Applicant :Assistant Professor, Department of Mechanical and Automobile Engineering, School of Engineering and Technology, CHRIST (Deemed to be University), Bangalore Kengeri Campus, Kanminike, Kumbalgodu, Mysore Road, Bengaluru-560074, Karnataka-State, India. -----

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Address of Applicant :Dean, School of Engineering and Technology, G H Raisoni University Saikheda, G H Raisoni Nagar Gram Doda, Borgaon, Madhya Pradesh, 480337. -----

7)Dr. BODA SURYA VENKATA RAMARAO
Address of Applicant :Professor & HoD, Department of Mechanical Engineering, Pragati Engineering College (Autonomous), 1-378, ADB Road, Surampalem, Near Kakinada, East Godavari District, Andhra Pradesh, India-533437. -----

8)Dr. P.KANAKARAJAN
Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE - 637215. -----

(57) Abstract :

An assembly line control system, and more specifically, an automotive assembly line storage and lot control system, is shown off in this paper. A communications network is put on top of a manufacturing line. The assembly line has a lot of readers and processing stations that help workers figure out and confirm the identities of the cars that pass by. They also check the cars' build instructions, status, position, condition, defect and repair history, and more. It's in a computer database, and it's easy to find. In this way, based on information that is stored about each vehicle and other things like inventory levels and production schedules, a route for each vehicle through the manufacturing process is determined and put into place. The assembly line has a lot of different storage loops and shunting lanes so that parts from a lot of vehicles that have the same build instructions are more likely to come into contact with each other.

No. o. Pages : 20 No. of Claims : 5



Office of the Controller General of Patents, Designs & Trade Marks
 Department of Industrial Policy & Promotion,
 Ministry of Commerce & Industry,
 Government of India

(<http://ipindia.nic.in/index.htm>)



INTELLECTUAL
 PROPERTY INDIA
 PATENT DESIGN TRADE MARKS
 GEOGRAPHICAL INDICATIONS

(<http://ipindia.nic.in/index.htm>)

Application Details

APPLICATION NUMBER	202241007000
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	09/02/2022
APPLICANT NAME	1 . Dr. M. SRINIVASNAIK 2 . Dr. PAL PANDIAN P 3 . Dr. M.SIVAKUMAR 4 . Dr. R.RAMESH KUMAR 5 . Dr. IVAN SUNIT ROUT 6 . Dr. ARVIND BODHE 7 . Dr. BODA SURYA VENKATA RAMARAO 8 . Dr. P.KANAKARAJAN
TITLE OF INVENTION	Fully automatic commercial line vehicle assembly line system
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	mail2patentipr@gmail.com
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	25/02/2022

Application Status

APPLICATION STATUS **Awaiting Request for Examination**

[View Documents](#)

➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

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 TIRUCHENGODE-637 215,
 NAMAKKAL Dt. TAMIL NADU.



Australian Government

U: Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102254

The Commissioner of Patents has granted the above patent on 2 June 2021, and certifies that the below particulars have been registered in the Register of Patents.

Name and address of patentee(s):

Balaji Devarajan of 22 roath place Prospect NSW 2148 Australia

FRASATH S of Asst. Prof., Depart. of Computer Science, Nandha Arts and Science College Erode Tamil Nadu India

Venkatesan M of Principal, K S R Institute, for Engineering and Technology Tiruchengode Tamil Nadu India

Meenakshi Devi P of Director - Academics, K S R Institute, for Engineering and Technology Tiruchengode Tamil Nadu India

BHARATHI E of Asst. Prof. & Head Dept. of CSE, Govt. Arts and Science College Erode Tamil Nadu India

GHAYATHRI J of Asst. Prof., Dept. of CSE (PG), Kongu Arts and Science College Erode Tamil Nadu India

SELVAKUMAR A of Asst. Prof., Dept. of CSE, Sree Saraswathi Thyagaraja College Pollachi Tamil Nadu India

Gopinath P of HoD/ ASP, Mechanical Engineering, K S R Institute for Engineering and Tech Tiruchengode Tamil Nadu India

KARTHIGAI S of Asst. Prof. & Head, Dept. of CSE, Dr. RANM Arts and Science College Erode Tamil Nadu India

Jagan Raj Jayapandiyan of 7 Church Street, Ammanpettai, Anaikkudi PO, Thiruvaidaimaruthur TK Kumbakonam Tamil Nadu India

Mani R of Professor, Mechanical Engineering, K S R Institute for Engineering and Tech Namakkal Tamil Nadu India

MOHANRAJ A of Assistant Professor, Mechanical Engg, K S R Institute for Engineering and Tech Namakkal Tamil Nadu India

MURUGESAN P of Professor Mechanical Engineering, K S R Institute for Engineering and Tech Namakkal Tamil Nadu India

VASANTHAKUMAR R of Asst. Prof., Mechanical Engineering, K S R Institute for Engineering and Tech Namakkal Tamil Nadu India

RAJAKUMARESWARAN V of ADMIRE SOLUTION 45, CHENKUMAR COMPLEX, PARI NAGAR, FALAYAPALAYAM ERODE Tamil Nadu India

Title of invention:

Wind turbine nacelle with phase change material which controls temperature using AI

Name of inventor(s):



Dated this 2nd day of June 2021

Commissioner of Patents

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PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details.



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IP Australia

CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2021102254

S., PRASATH; M., Venkatesan; P., Meenakshi Devi; E., BHARATHI; J., GHAYATHRI; A., SELVAKUMAR; P., Gopinath; S., KARTHIGAI; Jayapandiyan, Jagan Raj; R., MANI; A., MOHANRAJ; P., MURUGESAN; R., VASANTHAKUMAR; V., RAJAKUMARESWARAN and Devarajan, Balaji

Term of Patent:

Eight years from 29 April 2021

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 2nd day of June 2021

Commissioner of Patents

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PATENTS ACT 1990

The Australian Patents Register is the official record and should be referred to for the full details pertaining to the IP 2021



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Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)



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Application Details

APPLICATION NUMBER	202111032969
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	22/07/2021
APPLICANT NAME	1 . Dr. Nageswara Rao Atyam 2 . Dr. R. Prabu 3 . A. Thamilmaran 4 . Dr. Ramesh Babu P 5 . Dr. Gaurav Kataria 6 . Dr. T. Subramani 7 . Mrs. Navalgund Akkamahadevi 8 . Dr. Naveen Kumar G. N 9 . Mrs. Shruthi M. L. J 10 . Dr. Madijagan M
TITLE OF INVENTION	MOBILE BASED ACCIDENT DETECTION AND ALERT SYSTEM
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	vsasawat@gmail.com
ADDITIONAL-EMAIL (As Per Record)	vsasawat@yahoo.co.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/08/2021

ATTESTED.

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TIRUCHENGODE - 637 215,
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Application Status

APPLICATION STATUS

Awaiting Request for Examination

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

RESEARCH AND DEVELOPMENT CELL

Proposals submitted to the Funding Agencies

ACADEMIC YEAR: 2021 – 2022

S. No	Projects / Programmes Title	Funding Agency	Amount Applied
1.	FIST PG College Level O - Project	DST FIST	Rs. 90,88,559
2	DST-Faculty Development Programme for sustainable socioeconomic development through innovation and entrepreneurship	DST Division: Innovation and Entrepreneurship Division Programme or Scheme: Science and Technology and Innovation (STI) based Entrepreneurship Training Programme	Rs. 1,00,000
3	“Swachh smart bases: making of smarter river beds, based on environmental Pollution monitoring by wireless sensor networks”	SERB-Startup Research Grant	Rs. 27,91,080
4	Autonomous Irrigation and Plant growth monitoring system for vertical farming using Machine Learning	DST - SHRI	Rs.7,18,686.20
5	Hybrid Energy Storage System	Advanced Materials and Energy Storage Technology (AMEST)	Rs.60,40,000
6	Women Scientists Scheme	TIFAC	-
7	Parkinson’s disease Diagnosis using combined CNN and SVM from offline handwriting	DST-SHRI Programme	Rs. 19,25,000
8	Intelligent and Smart IOT Farming Using Edge Computing and IoT	PALS Scheme - Rural Technology Action Group- Tamil Nadu (RuTAG-TN), IIT-Madras	Rs. 3, 50,000
9	GE 8075 Intellectual Property Rights	FDTP Winter Vacation 2021 – Anna University	Rs. 30,000
10	Deep Learning for Predictions in Emergency Currency Markets	SERB – Seminar Proposal	Rs. 1,00,000
11	IoT Enabled Cancer Prediction System using Cloud Computing	SERB – CRG	Rs. 22,00,000

12	Science, Technology and Innovation Hub for creating Sustainable Livelihood Opportunities of Scheduled Castes in Tiruchengode Block, Namakkal District, Tamil Nadu	STI Hub for SC Community	Rs.1,56,67,765
13	Developing Novel Application for 3D Printing is a Key Concern for Researchers	Online Faculty Development Programme - CSIR	Rs.77,500
14	Five Days Seminar on Recent Advancements And Future Trends Of Electric Vehicle Technologies	Seminar Grant - SERB	Rs. 1,10,000
15	Experimental Investigation on Joining Various Alloy Materials using Friction Stir Welding	SERB SURE	Rs.28,45,000
16	KSRIET Science, Technology, and Innovation Hub for SC/ST to foster aspirant entrepreneurship for Sustainable socio-economic development	DST Division: SEED Programme or Scheme: STI Hub for SC Community	Rs.1,96,16,750



Project Proposal On

"FIST- PROJECT (Level-0)"

Submitted to

Division :R & D Infrastructure

Programme or Scheme : FIST PG College Level O

Submitted by

Project Investigator:

Dr. A Murugesan

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,
Namakkal**


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19. Details of funds requested for 5 years:

Grant Head		Budget Heads	Total INR Cost
A Capital (C)	A1	Equipment	74,12,839
	A2 (Fixed %)	Infrastructure Max. @ 8% of Equipment cost (Capital)	4,81,027
	A3 (Fixed % and Level)	Networking Max. @ 5% of Project cost (Capital)	3,24,693
B General (G)	B1 (Fixed @ Project cost)	Industrial R&D support * [@Rs.1.0 L (Project cost ^s ≤ Rs 100.0 L)] [@Rs.2.0 L (Project cost ^s > Rs 100.0 L)]	1,00,000
	B2 (Fixed)	SSR Activities [#] (@Rs. 1.0 L)	1,00,000
	B3 (Fixed % @ Project cost)	Maintenance [@10% Project cost]	6,70,000
TOTAL: [A (Capital) + B (General)]			90,88,559

* Incentive grants for extending utilization of FIST facilities for the industries/ MSMEs/ Start-ups etc.

Incentive grants for carrying out activities pertaining to the Scientific Social Responsibility (SSR)

^sExclusive of Maintenance cost

19. Details of each Budget Heads with full justifications for each item as given at Sr. No. 19 including details of similar support from any other sources.

Annexure VI

20. Specify the recipient of the Grant (Principal / Any other) by attaching an endorsement from Head of Institution/ College.

Yes – endorsement from Head of Institution/ attached

Information submitted as above are true and correct.



[Handwritten Signature]
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[Handwritten Signature]
Signature of the
Principal of Institute
PRINCIPAL,
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NAMAKKAL Dt. TAMIL NADU.



Project Proposal On

"DST-Faculty Development Programme for sustainable socio-economic development through innovation and entrepreneurship."

Submitted to

Division : Innovation and Entrepreneurship Division

Programme or Scheme : Science and Technology and Innovation (STI) based Entrepreneurship Training Programme

Submitted by

Project Investigator:

Dr. Srihari T

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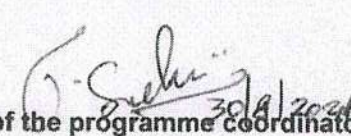
Bank	The Lakshmi Vilas Bank Ltd
Branch	Thokkavadi
IFSC Code	LAVB0000751
Scanned copy of a cheque	Enclosed a copy of the cancelled cheque as PDF

Declaration

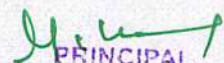
I, Dr T. SRIHARI, hereby declare that the above-mentioned information is true to the best of my knowledge & belief.

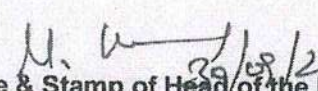
Date: 30 September 2021

Place: KSRIET, Tiruchengode


Signature of the programme coordinator

Nodal Officer
Entrepreneurship Development Cell
K S R Institute for Engineering and Technology
Tiruchengode-637 215.


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Signature & Stamp of Head of the Institution

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Project Proposal On

"KSRIET Science, Technology, and Innovation Hub for SC/ST to foster aspirant entrepreneurship for sustainable socio-economic development"

Submitted to

Division :SEED


Programme or Scheme : STI Hub for SC Community

Submitted by

Project Investigator:

Dr. Srihari T

**K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY-
Namakkal**


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NAMAKKAL DL, TAMIL NADU.


R. Srinivasan B.B.M.,
Chairman cum Managing Trustee

Dr. M. Venkatesan, M.E., Ph.D.,
Principal


ENDORSEMENT FROM HEAD OF THE INSTITUTE

It is certified that the project proposal titled **"KSRIET Science, Technology, and Innovation Hub for SC/ST to foster aspirant entrepreneurship for sustainable socio-economic development"**

1. Has not been submitted to any other agency/agencies for financial support
2. The scale of pay, allowance, etc. proposed are those admissible to persons of corresponding status employed in the Institute/University/NGO/Voluntary Organization, and are in accordance with the guidelines on emoluments for research personnel as contained in (enclose guidelines if any in case of Central/State Government Institutions)
3. It is agreed that any research outcome or intellectual property right(s) on the invention(s) arising out of the project shall be taken in accordance with the instructions issued with the approval of the Ministry of Finance, Department of Expenditure
4. The institute welcomes participation of **Dr.T.Srihari** as the Principal Investigator and **Dr.W.Deva Priya, Dr. A. Murugesan** as the Co-Investigator for the project and that in the unforeseen event of discontinuance by the Principal Investigator, the Co-Investigator will assume responsibility of the fruitful completion of the project (with due intimation to DST).


Signature of Executive Authority
of Institute with Seal with date
PRINCIPAL.
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL TAMIL NADU.

K.S.R. Kalvi Nagar, Tiruchengode - 637 215, Namakkal Dist., Tamil Nadu, India.
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Jayachitra Jayaprakash <jchitraece@gmail.com>

SERB-Notification

1 message

Dr. V Ramesh <drvramesh@serbonline.in>
To: serbinfo1@gmail.com

Thu, Apr 21, 2022 at 2:32 PM



Science and Engineering Research Board
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SCIENCE & ENGINEERING RESEARCH BOARD (SERB)

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

Science and Engineering Research Board
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

File Number: SRG/2022/000278

Dated: 21-Apr-2022

Subject: Project titled "SWACHH SMART BASES: MAKING OF SMARTER RIVER BEDS, BASED ON ENVIRONMENTAL POLLUTION MONITORING BY WIRELESS SENSOR NETWORKS".

Dear Dr. JAYACHITRA S,

The proposal is under consideration subject to fulfilling the eligibility criteria as per SERB norms under SRG scheme.

Yours sincerely,

(Dr. Ramesh Vijayan)

Scientist - D

Email: drvramesh@serb.gov.in

Ph: 01126511082

Dr. JAYACHITRA S

Electronics and Communication Engineering

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY , Kalvi nagar tiruchgode namakkal (dt) tamil nadu, Namakkal, Tamil nadu-637215

SWACHH SMART BASES: MAKING OF SMARTER RIVER BEDS, BASED ON ENVIRONMENTAL POLLUTION MONITORING BY WIRELESS SENSOR NETWORKS

File No : SRG/2022/000278

Name : JAYACHITRA S

Institute Name : K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

Duration : 24 months

Total Budget : 27,91,080 INR

Status : Proposal Submitted

SRG/2022/000278

📄 Documents

5 Submitted 0 Revision Pending

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SWACHH SMART BASES: MAKING OF SMARTER RIVER BEDS, BASED ON ENVIRONMENTAL POLLUTION MONITORING BY WIRELESS SENSOR NETWORKS

Reference No. : 422022001312

Saved By : Dr. JAYACHITRA S

Saved Date : 21 Feb 2022


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K S R KALVI NAGAR,
TIRUCHENGODE-637 015,
NAMAKKAL Dt, TAMIL NADU.

PROPOSAL DETAILS

Dr. JAYACHITRA S

jchitraece@gmail.com

Associate Professor(Electronics and Communication Engineering)

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

Kalvi nagar tiruchode namakkal (dt) tamil nadu, Namakkal, Tamil nadu-637215

Technical Details :

Scheme :	Start-up Research Grant		
Research Area :	Communication Engineering (Engineering Sciences)		
Duration :	24 Months	Contact No :	+919487732056
Date of Birth :	24-Apr-1977		
Nationality :	INDIAN	Total Cost (INR) :	27,91,080

Project Summary :

The quality of air and water can be monitored with low cost sensing modules combined with machine to machine (M2M) and IoT technologies. wireless sensor network architecture combined with low cost sensing nodes along with low cost probe of sensing multi parameters of surface waters (rivers, lakes, etc...)in urban areas. The importance may be given for water pollution due to dyeing industries also , and measure of air purity levels along with their measures of severity. Wireless sensor network based Swachh Smart bases also results in a cost effective product of water quality measuring device which can be used at water distribution systems ,at hotels,hospitals and at home to test the quality of water. The cost effective air quality measuring device can be used at industries to keep their environment safe. The result of water quality and air quality levels on river beds after monitoring continuously any severity levels can get informed to the department of authority to take further action. At the sensing nodes the pollutants levels are measured using sensors and it is collected as data then converted to digital for further processing making use of signal conditioning unit and converters. Data collected is processed in Data Processing center and transmitted to other distribution networks. Making use IoT technologies is preferred after collecting data using wireless sensor network. This Proposed product senses the change of parameters and electrical signals are converted to digital signals using signal conditioning circuit so as to use as input to processing unit ,the memory is used for processing of tasks and the transceiver is used for communication with other sensor nodes in WSN. Though the sensors can monitor temperature ,pressure, humidity, soil makeup, vehicular movement, noise levels, lightning conditions ,we mainly concentrate on presence of chemical substances measurement in water levels by using pH Sensor which is used to measure how much acidic or basic the water level is and also pollution level in air by using Optical particle counters which detect particulate pollution by measuring the light scattered by particles. Optical sensors detect gases like carbon monoxide and carbon dioxide by measuring the absorption of infrared light. The quality of air and water can be monitored with low cost sensing modules combined with machine to machine (M2M) and IoT technologies. The result of water quality and air quality levels on river beds after monitoring continuously any severity levels can get informed to the department of authority to take further action .Wireless sensor network based Swachh Smart bases also results in a cost effective product of water quality measuring device which can be used at water distribution systems ,at hotels,hospitals and at home to test the quality of water. The cost effective air quality measuring device can be used at industries to keep their environment safe.

Objectives :

- In this study wireless sensor network architecture combined with low cost sensing nodes along with low cost probe of sensing multi parameters of surface waters (rivers, lakes, etc...)in urban areas.
- The importance may be given for water pollution due to dyeing industries also , and measure of air purity levels along with their measures of severity.
- The quality of air and water can be monitored with low cost sensing modules combined with machine to machine (M2M) and IoT technologies
- Wireless sensor network based Swachh Smart bases also results in a cost effective product of water quality measuring device which can be used at water distribution systems ,at hotels,hospitals and at home to test the quality of water.
- The result of water quality and air quality levels on river beds after monitoring continuously any severity levels can get informed to the department of authority to take further action.

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 TIRUCHENGODE-637 215.
 TAMIL NADU.

Keywords :

Smart, Environment, Wireless Sensor, Water quality monitoring, air quality monitoring

Expected Output and Outcome of the proposal :

The expected outcome of the proposal is the analysis of water pollution and air pollution near the river beds using the sensors and if the values measured are above the threshold then the people around the area may be given awareness about the pollutants. The levels of chemical in water on river beds due to dyeing industries is given priority and quality of air at river beds can simultaneously be monitored making using of sensors at different areas and all details are analyzed and monitored. When the measured values exceeds the threshold the same can be transmitted to common station or group of people using IoT technologies. Wireless sensor network based Swachh Smart bases also results in a cost effective product of water quality measuring device which can be used at water distribution systems, at hotels, hospitals and at home to test the quality of water. The cost effective air quality measuring device can be used at industries to keep their environment safe. The result of water quality and air quality levels on river beds after monitoring continuously any severity levels can get informed to the department of authority to take further action




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NAMAKKAL DISTRICT, TAMIL NADU.

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Analyzed document Project summary edited- 25.02.22.docx (D128818037)
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Sources included in the report

- W** URL: <https://www.indianjournals.com/ijor.aspx?target=ijor:ajrssh&volume=6&issue=8&type=toc>
Fetched: 2022-01-17T07:26:13.7970000 1
- W** URL: <https://www.hindawi.com/journals/wcmc/2020/8897126/>
Fetched: 2020-12-11T13:04:44.3530000 1
- W** URL: <https://pubmed.ncbi.nlm.nih.gov/33092838/>
Fetched: 2021-04-19T00:06:06.9330000 1
- SA** **CH1.pdf**
Document CH1.pdf (D114324724) 1



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K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

Entire Document

SWACHH SMART BASES: MAKING OF SMARTER RIVER BEDS, BASED ON ENVIRONMENTAL POLLUTION MONITORING BY WIRELESS SENSOR NETWORKS. Abstract: Nowadays the world's greatest cities are in need of survival with the climate change challenges, growth of population, water scarcity and its pollutions, air pollutions etc...not only to survive but also to thrive over the same. As the water bodies are getting more and more toxic and a report says that 70% of surface water is unfit for consumption because of its toxic level. At most 40 million litres of wastewater enters river beds where only tiny fraction is being treated. Estimate from another study shows that polluted stretches results in 9% reduction in agricultural revenues drop of 16% in agricultural yields. Increasing quality of life will definitely being a costly and difficult process. The quality of air and water can be monitored with low cost sensing modules combined with machine to machine (M2M) and IoT technologies. In this study wireless sensor network architecture combined with low cost sensing nodes along with low cost probe of sensing multi parameters of surface waters (rivers, lakes, etc.)in urban areas. The importance may be given for water pollution due to dyeing industries also , and measure of air purity levels along with their measures of severity. Wireless sensor network based Swachh Smart bases also results in a cost effective product of water quality measuring device which can be used at water distribution systems ,at hotels,hospitals and at home to test the quality-of water. The cost effective air quality measuring device can be used at industries to keep their environment safe. The result of water quality and air quality levels on river beds after monitoring continuously any severity levels can get informed to the department of authority to take further action Block Diagram:

Data Processing Base Station (Local) Data acquisition/Sensor Deployment
 Measured value within threshold Data Distribution External Data for Research Yes No
 Previous Record Data Distribution to other Networks

A combination of sensing, processing and communication technologies make a smart sensor node, the above figure shows the basic components of it. At the sensing nodes the pollutants levels are measured using sensors and it is collected as data then converted to digital for further processing making use of signal conditioning unit and converters. Data collected is processed in Data Processing center and transmitted to other distribution networks. Making use IoT technologies is preferred after collecting data using wireless sensor network. Explanation: It senses the change of parameters and electrical signals are converted to digital signals using signal conditioning circuit so as to use as input to processing unit ,the memory is used for processing of tasks and the transceiver is used for communication with other sensor nodes in WSN. Though the sensors can monitor temperature ,pressure, humidity, soil makeup, vehicular movement, noise levels, lightning conditions ,we mainly concentrate on presence of chemical substances measurement in water levels by using pH Sensor which is used to measure how much acidic or basic the water level is and also pollution level in air by using Optical particle counters which detect particulate pollution by measuring the light scattered by particles. Optical sensors detect gases like carbon monoxide and carbon dioxide by measuring the absorption of infrared light. The quality of air and water can be monitored with low cost sensing modules combined with machine to machine (M2M) and IoT technologies. The result of water quality and air quality levels on river beds after monitoring continuously any severity levels can get informed to the department of authority to take further action Wireless sensor network based Swachh Smart bases also results in a cost effective product of water quality measuring device which can be used at water distribution systems ,at hotels,hospitals and at home to test the quality of water. The cost effective air quality measuring device can be used at industries to keep their environment safe Expected Outcome: The expected outcome of the proposal is the analysis of water pollution and air pollution near the river beds using the sensors and if the values measured are above the threshold then the people around the area may be given awareness about the pollutants .The levels of chemical in water on river beds due to dyeing industries is given priority and quality of air at river beds can simultaneously be monitored making using of sensors at different areas and all details are analyzed and monitored .when the measured values exceeds the threshold the same can be transmitted to common station or group of people using IoT technologies. Wireless sensor network based Swachh Smart bases also results in a cost effective product of water quality measuring device which can be used at water distribution systems ,at hotels,hospitals and at home to test the quality of water.The cost effective air quality measuring device can be used at industries to keep their environment safe The result of water quality and air quality levels on river beds after monitoring continuously any severity levels can get informed to the department of authority to take further action Keywords: Smart, Environment, Wireless Sensor, Water quality monitoring, ,air quality monitoring State of the Art :


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Nowadays the world's greatest cities are in need of survival with the climate change challenges, growth of population ,water scarcity and its pollutions, air pollutions etc...not only to survive but also to thrive over the same .Increasing quality of life will definitely being a costly and difficult process. The quality of air and water can be monitored with low cost sensing modules combined with machine to machine (M2M) and IoT technologies. As the water bodies are getting more and more toxic and an report says that 70% of surface water is unfit for consumption because of its toxic level. At most 40 million litres of wastewater enters river beds where only tiny fraction is being treated. Estimate from another study shows that polluted stretches results in 9% reduction in agricultural revenues drop of 16% in agricultural yields in this study wireless sensor network architecture combined with low cost sensing nodes along with low cost probe of sensing multi parameters of surface waters (rivers, lakes, etc...)in urban areas. The main importance given for water pollution due to dyeing industries , and measure of air purity levels along with their measures of severity. Block Diagram:

Data Processing Base Station (Local) Data acquisition/Sensor Deployment

Measured value within threshold Data Distribution External Data for Research Yes No

Previous Record Data Distribution to other Networks

Explanation: It senses the change of parameters and electrical signals are converted to digital signals using signal conditioning circuit so as to use as input to processing unit ,the memory is used for processing of tasks and the transceiver is used for communication with other sensor nodes in WSN Though the sensors can monitor temperature,pressure,humidity,soil makeup,vehicular movement,noise levels,lightning conditions ,we mainly concentrate on presence of chemical substances measurement in water levels by using pH Sensor which is used to measure how much acidic or basic the water level is and also pollution level in air by using Optical particle counters which detect particulate pollution by measuring the light scattered by particles. Optical sensors detect gases like carbon monoxide and carbon dioxide by measuring the absorption of infrared light. Origin of the Proposal:

As the water bodies are getting more and more toxic and an report says that 70% of surface water is unfit for consumption because of its toxic level. At most 40 million litres of wastewater enters river beds where only tiny fraction is being treated. Estimate from another study shows that polluted stretches results in 9% reduction in agricultural revenues drop of 16% in agricultural yields. Environmental Monitoring is essentially needed because it is changing time to time all our human activities are having high impact on environment.

In our proposed work air quality monitoring can give us the idea about the chemical composition, humidity and moisture levels in air of a particular region and allow data analysts to decide on if the sampled air is pollution free.

Similarly Environmental monitoring also measures risk factors due to the extensive by products created as industrial wastes, also the level of increase in chemical compositions/pollutants especially in river beds

The measure of air quality and chemical compositions in riverbeds are measured using wireless sensor networks and data is being processed its result will be given to other distribution networks

We mainly concentrate on presence of chemical substances measurement in water levels by using pH Sensor which is used to measure how much acidic or basic the water level is and also pollution level in air by using Optical particle counters which detect particulate pollution by measuring the light scattered by particles. Optical sensors detect gases like carbon monoxide and carbon dioxide by measuring the absorption of infrared light

Research Plan :

Block Diagram:

Data Processing Base Station (Local) Data acquisition/Sensor Deployment

Measured value within threshold External Data for Research Data Distribution Yes No

Previous Record Data Distribution to other Networks

A combination of sensing, processing and communication technologies make a smart sensor node, the above figure shows the basic components of it. At the sensing nodes the pollutants levels are measured using sensors and it is collected as data then converted to digital for further processing making use of signal conditioning unit and converters. Data collected is processed in Data Processing center and transmitted to other distribution networks. Making use IoT technologies is preferred after collecting data using wireless sensor network. Making use of IoT with wireless sensor network, the data collection, processing and transferring can be done at work place.

M. Srinivas
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ENGINEERING AND TECHNOLOGY,
S R KALVI NAGAR,
WINDY CODE-637 215,
TIRUPATI NADU

Work Elements/Activity Time of Completion Organization Responsible/Utilization of the Laboratories First Year: Sensor network deployment study/simulation, Collecting data external/Previous Records 2 months Networks Laboratory / ECE & Electronics & Device Laboratory Field work Simulation of the Project Design using simulator (Multisim, Labview, NS-2) 2 months Networks Laboratory / ECE Field work Non Consumables & Consumables /Hard ware Equipments arrangement 2 months Networks Laboratory / ECE Field work Hardware Implementation & Testing (Regular Monitoring of sensor nodes, data processing, Analysis Transfer of data) 4 months Networks Laboratory & Electronics & Device Laboratory Field work Software Coding /corrections/data base collections/comparisons Using Ns 2 2 months Networks Laboratory Field work Second Year: Project Implementation after corrections (Regular Monitoring of sensor nodes, data processing, Analysis, Transfer of data) 3 months Networks Laboratory Field work

Project Testing 1 month Verification/ Rectification of the Project Data analysis done based on threshold and based on severity, awareness by means of sending messages and information sending to the authority 2 months The product development testing at water distribution systems, Industries, home, hospitals and hotels. 2 months Project Report Preparation 2 months Networks Laboratory / ECE Final Project Submission/ Review 1 month Networks Laboratory /ECE

Key publications of the Investigator during the last 5 years: S.No. Author(s) Title Name of Journal Volume Page Year 1. Jayachitra.s, Jayavadivel Task Scheduling In Cloud Computing Using Ica And Crow Search Algorithms Bioscience Biotechnology Research Communications Volume 13, ISSN: 0974-6455 Number (6) 2020 Dec-2020 2. Sathya.M.P*, Jayachithra.S, Muthu Kumara Pandian. Automatic Ration Distribution System Using IoT with Anti theft and Anti-spill alarm, International Journal of Engineering Research and Applications Vol. 10, Issue 5 ISSN 2248-9622 55-59 May-2020 3. Jayachitra. S, Thiagarajan. N An Enhanced Method Of Secured Energy - Efficient Data Communication in Manet For Emergency Rescue Operation International Journal of Engineering and Advanced Technology Volume-9, Issue-152 42-50 December 2019 4. M.Mohana Soundarya 1, Dr.S.Jayachitra A Study on Algorithm for Compression and Decompression of Embedded Codes using Xilinx Indo-Iranian Journal of Scientific Research (IJISR) Volume 2, Issue 4 31-36 Oct-Dec 2018 5. Jayachitra.s C.Nelson Kennedy Babu

MATCHING BLOCK 1/4

W <https://www.indianjournals.com/ijor.aspx?target..>

Secured QoS Routing and Data Communication in Mobile Ad Hoc Network'

Asian Research Consortium, Asian Journal of Research in Social Sciences and Humanities vol. 6, no. 8. 267-281 2016 6. Jayachitra.s C.Nelson Kennedy Babu Energy – efficient Polynomial Time Resource Channelized Framework for Data Communication in MANET' Asian Journal of Information Technology, Medwell Journals vol. 15, no. 12 1987- 1995 2016

7. Jayachitra.s C.Nelson Kennedy Babu An Energy Conserved Route Discovery Using node Partitioned Cluster Routing in Manet Australian Journal of Basic and Applied Sciences 9(10) Special 326- 334 2015 8. Jayachitra.s

MTCMOS Design for Effective Voltage Drop Control IJAICT Volume1, Issue2 2014 9. Jayachitra s MP Anjusha A Novel Method for Small Delay Defect Detection Using Glitch Detector IJAICT Volume1, Issue2 2014

Bibliography :

1. Wireless sensor networks: A survey on monitoring water quality Mompoloki Pute *, Abid Yahya, Joseph Chuma - Journal of Applied Research and Technology 2. Smartening the Environment using Wireless Sensor Networks in a Developing Country-This work was supported by MIC and ITRC Project ,Al-Salib Khan Pathan, Choong Seon Hong, Hyung -Woo Lee.

3..


MATCHING BLOCK 2/4

W <https://www.hindawi.com/journals/wcmc/2020/889...>

Smart River Monitoring Using Wireless Sensor Networks Kofi Saipong Adu-Manu Ferdinand Apietu Katsriku, Jamal-Deen Abdulai, and Felicia Engmann,

Hindawi, Wireless Communications and Mobile Computing Volume 2020, Article ID 8897126

4. Israel Koren, C. Mani Krishna, in Fault-Tolerant Systems (Second Edition), 2021-Chapter- Sensor Network Failures.


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K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,
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5. Smart River Monitoring Using Wireless Sensor Networks K. S. Adu-Manu, F. Katsriku, F. Engmann.
6. Personal Environment Service based on the Integration of Mobile Communications and Wireless Personal Area Networks-Jongtaek Oh South Korea and Hansung University Wireless Networks Lab (WNL)
7. Distribution System Water Quality Monitoring: Sensor Technology Evaluation Methodology and Results- A Guide for Sensor Manufacturers and Water Utilities.
- 8.

MATCHING BLOCK 4/4

SA CHI.pdf (D114324724)

A system for monitoring water quality in a large aquatic area using wireless sensor network technology

Alexander T. Demetillo, Michelle V. Japitana School of Engineering, University of San Carlos, Cebu City, 6000, Philippines
College of Engineering and Information Technology, Caraga State University, Butuan, 9

MATCHING BLOCK 3/4

W <https://pubmed.ncbi.nlm.nih.gov/33092838/>

A comprehensive review of catchment water quality monitoring using a tiered framework of integrated sensing technologies, Joyce O'Grady, Dian Zhang, Noel O'Connor, Fiona Regan,

DCU Water Institute, Dublin City University, Dublin


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Hit and source - focused comparison, Side by Side

Submitted text As student entered the text in the submitted document.
Matching text As the text appears in the source.

SUBMITTED TEXT 11 WORDS 100% MATCHING TEXT 11 WORDS
Secured QoS Routing and Data Communication in Mobile Ad Hoc Network' Secured QoS Routing and Data Communication in Mobile Ad Hoc Network

W <https://www.indianjournals.com/ijor.aspx?target=ijor&rsjsh&volume=6&issue=8&type=loc>

SUBMITTED TEXT 19 WORDS 100% MATCHING TEXT 19 WORDS
Smart River Monitoring Using Wireless Sensor Networks Kofi Sarpong Adu-Manu Ferdinand Apietu Katsriku, Jamal-Deen Abdulai, and Felicia Engmann, Smart River Monitoring Using Wireless Sensor Networks Kofi Sarpong Adu-Manu,1,2 Ferdinand Apietu Katsriku,2 Jamal-Deen Abdulai,2 and Felicia Engmann31

W <https://www.hindawi.com/journals/wcmc/2020/8897126/>

SUBMITTED TEXT 17 WORDS 100% MATCHING TEXT 17 WORDS
A system for monitoring water quality in a large aquatic area using wireless sensor network technology

SA CH1.pdf (D114324724)

SUBMITTED TEXT 24 WORDS 100% MATCHING TEXT 24 WORDS
A comprehensive review of catchment water quality monitoring using a tiered framework of integrated sensing technologies, Joyce O'Grady, Dian Zhang, Noel O'Connor, Fiona Regan, A comprehensive review of catchment water quality monitoring using a tiered framework of integrated sensing technologies Joyce O'Grady 1, Dian Zhang 2, Noel O'Connor 3, Fiona Regan 4

W <https://pubmed.ncbi.nlm.nih.gov/33092838/>

[Handwritten Signature]
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K S R KALANAYAL STREET,
TIRUCHENGODI - 621 007,
NAMAKKAL DISTRICT, TAMIL NADU



विज्ञान विभाग
Ministry of Science & Technology
Government of India

Project Proposal On

"Autonomous Irrigation and Plant growth monitoring system for vertical farming using Machine Learning"

Submitted to

Division :Technology Development Transfer

Programme or Scheme : Science and Heritage Research Initiative
SHRI

Submitted by

Project Investigator:

Dr. NANDAKUMAR

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY-
Namakkal


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ENGINEERING AND TECHNOLOGY,
K S R, KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

Part 1 : General Information

General Information:

1.Name of the Institute/University/Organisation submitting the Project Proposal :

K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY

2. State Tamilnadu

3. Principal Investigator Name: Dr. NANDAKUMAR

4. Category: OBC

5. Type of the Institue : Academic Institutions (Private)

6. Project Title : Autonomous Irrigation and Plant growth monitoring system for vertical farming using Machine Learning

7. Division : Technology Development Transfer

8. Programme Or Scheme : Science and Heritage Research Initiative SHRI

9. Academic Area : Agriculture Science, Food and Nutrition, Electronics,Computers and Communication Engineering,

10. Application Area : Energy, Entrepreneurship and Innovation, Food and agriculture, Land Resources, Science Communications, Water,

11. Goverment National Initiative : Startup India, Digital India, Smart Village,

12. Type of Proposal : Proposal Against Call

13. Project Duration : 1 Years and 9 Months


14. Proposal Submit Date : 31/08/2021

15. Project Keywords : Irrigation, Vertical farming, Machine learning, IoT Sensors, Drone

16. Project Summary :

To improve the agricultural yield with increasing demand in population and availability of fewer resources and labour efforts. We have proposed for 1. Establishing Vertical Farming Structure
2. Incorporation of Autonomous Drip Irrigation, 3.Implementing Sensors and monitoring its real time parameters using Machine Learning,4. Implementation of Visual Drone for monitoring crop health and connecting with the IoT System. With our proposed system, we would minimize the workload of the farmers. The monitored data will be used in the control system to ensure that the best quality of nutrient solution which was supplied to the Turmeric plant. The data monitored will be sent to the cloud platform for data logging process and also for future studies. Based on the studies made, the existing systems are having the electrical consumption of 0.424kWh and above, while implementing our proposed system, which would consume 0.26 kWh approximately. Land space will reduce at a ratio of 10,1. Hence, Productivity will be increased by 10 times.

Part 2: Particulars of Investigators


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K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI. TAMIL NADU,

Principal Investigator:

1. Name: Dr. NANDAKUMAR
Gender: Male
Date of Birth: 07/05/1979
Designation : PROFESSOR
Department: ELECTRONICS AND COMMUNICATION ENGINEERING
Institute/University: K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY
State: Tamilnadu
District: Namakkal
City/Place: Namakkal
Address: K.S.R. Kalvi Nagar, Tiruchengode , Namakkal District, Tamilnadu, India
Pin: 637215
Communication Email: drrnandakumar@gmail.com
Alternate Email: nandhu.r79@gmail.com
Mobile: 9600892211
Phone: 04288274773
Fax:
Category: OBC

Co-Investigator:

1. Name: Mr. MV Mahesh
Gender: Male
Date of Birth: 23/06/1981
Designation : Assistant Professor


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K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI. TAMIL NADU.

Department: Electronics and Communication Engineering

Institute/University: K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

State: Tamilnadu

District: Erode

City/Place: Erode

Address: 314 D,E,F Amman street, Ashok Nagar
Near Jaycees Stop, Chettipalayam, Erode

Pin: 638002

Communication Email: mahesh.vanamuthu@gmail.com

Alternate Email: mailtomvmahesh@gmail.com

Mobile: 9943431988

Phone:

Fax:

Category: OBC

Part 3: Suggested Refrees

Suggested Refrees: NA


Part 4: Financial Details

Financial Details:

A. Non - Recurring

Equipment

S.	Equipments	Qty.	Justification	1 Year	Total
1.	Brass valves, UPVC Pipes and Endcaps, UPVC Elbows/Tee Joints and 1 HP water pump, SS clamps screws	1	For providing water supply and bio fertilizers to vertical farming	23817	23817
2.	Drip tubes 16 mm, Tee/Take off/Tap/End Cap, Emitters	1	For drip irrigation of plants	7280	7280
3.	Overhead tanks	1	To support irrigation system we need a 1000+250 liters tank	5959	5959


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4.	Raspberry Pi4 4GB, Raspberry Pi X400 Multifunctional Expansion Board, 12.3 MP High Quality camera, High quality Lens, Drone Accessories, Drone Intelligent flight Battery, Spraying Tank, Spraying	1	IoT System Sensors, Drone with sprayer and HD camera for monitoring health of the plant	186594	186594
5.	Steel racks 5 No's (Steel Pipes, GI Sheets, Welding Rods)	1	Steel rack platform for vertical farming	120537	120537
Total				344187	344187

B. Recurring

Project Staff

S.	Project Staff	No.	Justification	1 Year	2 Year	Total
1.	Project Assistant	1	One member will be allocated as a full time employee (12000). So totally 1,44,000 is spent on salaries for the employee per year.	144000	144000	288000
Total				144000	144000	288000

Consumables

S.	Items	Qty.	Justification	1 Year	2 Year	Total
1.	Fertilizer	1	Initially to set up vertical farming we need fertilizers, urea, potash and so on	10000	10000	20000
2.	Gardening Tools	1	Initially to set up vertical farming we need some gardening equipments	2500	0	2500
3.	Sand	1	Initially to set up vertical farming we need sand and in upcoming years it can be maintained as per needed	10000	0	10000
4.	Seeds	1	For vertical farming we need fine quality of seed in the first year and we can keep the harvested product for the next years seed	5000	5000	10000
Total				27500	15000	42500

Contingency


S.	Description	Justification	1 Year	2 Year	Total
1.	Formation of scaling due to salt content in water	Scaling Removal Purpose within the Drip Tubes	12000	12000	24000
Total			12000	12000	24000

Travel

S.	Description	Justification	1 Year	2 Year	Total
1.	Local Travel	Purchase of Project related goods	2500	2500	5000
2.	Outstation	Transportation charges for attending workshops/Seminars	10000	5000	15000
Total			12500	7500	20000

Budget Head Summary in (INR)


Budget Head	Year-1	Year-2	Total
1- Non-Recurring			
Equipment	344187	0	344187
Subtotal (Capital)	344187	0	344187
2- Recurring			
Project Staff	144000	144000	288000
Consumables	27500	15000	42500
Contingency	12000	12000	24000
Travel	12500	7500	20000
Subtotal (General Items)	196000	178500	374500
Total Project Cost (Capital + General)	540187	178500	718687


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Part 6: PFMS Details

PFMS Unique Code Available: No

Type of Registration :	Academic Institutions (Private)
PAN Number :	AAATA2605F
Agency Name :	AARTHI EDUCATIONAL AND CHARITABLE TRUST
Act Registration No. :	386 of 1196
Registering Authority :	Sub-Registrar
TIN Number :	NA
TAN Number :	CHEA08192C
GST Number :	NA
Block No /Building /Village /Name of Premises :	5-492,
Road/Street/Post Office :	THOKKAVADI
Area/Loacality :	TIRUCHENGODE
City :	NAMAKKAL
Pin Code :	637215
State :	Tamilnadu
District :	Namakkal
Contact Person :	Dr. M. Venkatesan
Designation :	Principal
Phone Number :	04288274773
Mobile Number :	9944456056
Email ID :	principal@ksriet.ac.in
Bank Name :	The Lakshmi Vilas Bank Ltd
Branch Address of the Bank :	K.S. Rangasamy Institute of Technology, Erode Main Road Paramasiva Goundampalayam, THOKKAVADI, SH


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Bank Branch Name :

Thokkavadi

Bank Account Number of the Beneficiary :

0751301000154073

IFSC Code of the bank :


LAVB0000751

MICR Code of the bank :

638056014


Part 5: Current Ongoing Project

Current Ongoing Project: NA


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List of Uploaded Documents:-

1. Complete Project proposal
2. Biodata
3. Certificate from PI
4. Conflict of interest
5. Endorsement from head of Institute
6. Quotation for Equipments


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TIRUCHENGODE-637 215,
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FORMAT FOR SUBMISSION OF PROPOSALS

“Science and Heritage Research Initiative (SHRI)”

A. IDENTIFICATION

1. Project title

Autonomous Irrigation and Plant growth monitoring system for vertical farming using Machine Learning

Key Words

Irrigation; Vertical farming; Machine learning; IoT; Sensors; Drone

2. State: Tamil Nadu

3. Broad Area: - (Please tick mark (√))


- 3.1. Physical Space for Heritage ()
- 3.2. Digital Space for Heritage ()
- 3.3. Technologies for Textile Heritage ()
- 3.4. Traditional Agricultural Practices (√)
- 3.5. Technologies for Tangible Heritage ()
- 3.6. Technologies for Intangible Heritage ()
- 3.7. Specific studies to understand the scientific phenomenon behind the degradation and preservation ()
- 3.8. Skill Development Programme ()
- 3.9. Other Areas ()

4. Duration: (number of months) 19 Months

5. Total Cost: Recurring & Non-recurring: Rs. 7,18,687/-

6. Principal Investigator:

- 6.1. Name: DR. R. Nandakumar
- 6.2. Department: Electronics and Communication Engineering
- 6.3. Designation: Professor
- 6.4. Organization/ Institution Name: K S R Institute for Engineering and Technology


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6.5. Address (Including Telephone (Off & Res), E-mail, Fax) Pin:

Dr. R. NANDAKUMAR,
Professor/ ECE,
Door. No. I 5, Third Floor, K.S.R Staff Quarters,
K.S.R Kalvi Nagar, Thokkavadi, Tiruchengode,
Namakkal DT, Tamil Nadu, India.
Pin Code: 637215

E-mail:- drrnandakumar@gmail.com

Mobile: 9600892211 & 9488035983

6.6. Date of Birth: 07.05.1979

6.7. Sex (M/F): Male

7. Co- Investigator:

7.1 Name: M.V. Mahesh

7.2 Designation: Assistant Professor

7.3 Department: Electronics and Communication Engineering

7.4 Organization/Inst. Name: K S R Institute for Engineering and
Technology

7.5 Address: (Including Telephone (Off & Res), E-mail, Fax), Pin:

M.V Mahesh,

314 D E F, Amman Street, Ashok Nagar, Chettipalayam, Erode – 638002

Mahesh.vanamuthu@gmail.com.

7.6 Date of Birth: 23.06.1981

7.7 Sex (M/F): Male

8. Capability of the Organization:


(a) Expertise available:

1. Dr. Nandakumar, Professor/ECE, K S R Institute for Engineering & Technology,
Tiruchengode

2. Dr. Moorthy Selvakumaran, Founder & CEO, M/s Sri Selvakumaran Industries,
Erode.

(b) List of on-going and completed projects giving the following details:

Project Title	Start Date	Completion Date	Project cost	Sponsoring organization
Autonomous Irrigation system using IoT	02.01.2021	31.04.2021	Rs. 25000/-	Dr. Moorthy Selvakumaran, Founder & CEO M/s Sri Selvakumaran Industries, Kannaudaiyampalayam, Ganapathypalayam , Erode – 638 153, Tamil nadu


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B. TECHNICAL DETAILS

1. Background

1.1. **Description of problem**

Developing an autonomous irrigation and growth monitoring system for vertical farming

1.2. **Review of work already done**

Developed an autonomous irrigation using IoT for crop Cultivation.

1.3. **Rationale for taking up the project**

Already guided a batch in EDII-TNSI 2020 contest and won 1 lakh cash prize.

1.4. **Relevance to Heritage Science.**

The proposed project Diagnoses the plant diseases and giving remedy/medicine based upon traditional practices using machine learning and also following the traditional way for cultivating crop.

1.5. **Financial resources committed at Host Institute/Industry (if any)**

Rs.25000/- was committed by the Host Institute for developing Autonomous Irrigation System.

2. Challenge & Constraints

1. The main problem in vertical farming is to find the diseases and causes for them in the higher level crates. So we are using image processing and machine learning concepts to diagnose and solve this issue there by increasing the yield in vertical farming.
2. This proposed project will give solution to the problem faced by the urban farming like lack of enough workspace and continuous monitoring.

3. Description of Proposal

Proposed work is an automated monitoring system for vertical farming. This project aims to design and develop an automated system to monitor and maintain the level of nutrition solution and plant health with autonomous irrigation system for the vertical farming process. The monitoring condition includes measuring of NPK (Nitrogen, Phosphorous, Potassium) value, the Soil Moisture level as well as the temperature of water, Plant health condition.

3.1. **Objectives of the project.**


To improve the agricultural yield with increasing demand in population and availability of fewer resources and labor efforts.

3.2. **Preliminary Investigations done by organization. (If any)**

The project on Autonomous Irrigation using IoT was tested in agricultural farm and now waiting to implement it on vertical farming.

3.3. **S&T component in the project.**

IoT, agriculture robots, automation, and Drip irrigation.


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3.4. **Linkage with S&T Instts./NGO, s/resource persons/
R&D organization/Industry for technical backup.**

Dr. Moorthy Selvakumaran, Founder & CEO
M/s Sri Selvakumaran Industries,
Kannadaiyampalayam,
Ganapathypalayam ,
Erode – 638 153, Tamil Nadu

3.5. **Other organizations working in this area**

1. Hansin Bio-infra India Pvt. Ltd. Noida, Uttar Pradesh
2. Alexa Farms PVT. LTD. 7, Sundar nagar Extn, Near Shri Hari Public School, Sukhliya, Indore (M.P)

3.6. **Methodology detailing stepwise activities and sub-activities.**

1. Establishing Vertical Farming Structure
2. Incorporation of Autonomous Drip Irrigation
3. Implementing Sensors and monitoring its real time parameters
4. Implementation of Visual Drone for monitoring crop health and connecting with the IoT System.


4. **Work Plan**

Process / Time frame	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	
Framing the structure Vertical Farming																				
Crates for Soil Holding																				
Preparing Soil for Cultivation																				
Selection and Planting of Seed																				
Implementing Drip Irrigation																				
Developing a Drone Module																				
Implementing Machine learning process with our system for proper identification of plant health illness and good health																				
Testing of System with New Crop Farming																				
Documentation of the Project																				

5. **Output of the Project**

The proposed system would minimize the workload of the farmers. The monitored data will be used in the control system to ensure that the best quality of nutrient solution which was supplied to the Turmeric plant. The data monitored will be sent to the cloud platform for data logging process and also for future studies.

Based on the studies made, the existing systems are having the electrical consumption of 0.424kWh and above, while the implementing our proposed system would consume 0.26 kWh approximately. Land space will reduce at a ratio of 10:1. Productivity will be increased by 10 times.


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6. Likely Impact (Please attempt to quantify in terms of Social & Economical)

- Improvement in yield with low proportional land space
- Urban Farming will help to improve supply level of Agri products

7. Parameters for monitoring effectiveness of project

- Nutrient Film Technique System
- Key measurement for monitoring process
- Electrical Conductivity

8. Detailed Plan of Post Project Activities for the way forward

1. After Successful Completion of the project, we will file for Patent.
2. we would help farmers to implement vertical farming to improve their yield.
3. Promotion of Vertical farming in urban areas, where the peoples having low space area around their house to cultivate for their daily needs such Lettus, Tomato, Onions, Potatos, and Chilli.
4. We will improve the nutrition level of the cultivated vegetables.
5. We would invite franchise and improve entrepreneurship and thereby product availability across Pan India.

9. Status of the proposed or similar work (National & International)

- Vertical farming Implementation is Successful with drip Irrigation using IoT.

C. BUDGET ESTIMATES: SUMMARY

S. No	Item	1 st Year	2 nd Year	3 rd Year	Total
A.	Recurring				
1.	Salaries/ Wages	1,44,000	1,44,000	-	2,88,000
2.	Consumables	27,500	15,000	-	42,500
3.	Travel	12,500	7,500	-	20,000
4.	Other Costs (if any)	12,000	12,000	-	24,000
B.	Non-Recurring Permanent	3,44,186.20	-	-	3,44,186.20
Grand Total (A+B)		5,40,186.20	1,71,000	-	7,18,686.20

- Financial Year: April to March.
- Count six months from submission of the proposal to arrive at expected time point for commencement of the project.

A. Recurring


1. Salaries/Wages:

One member will be allocated as a full time employee (12000). So totally 1,44,000 is spent on salaries for the employee per year.

- Full time employee will have a degree in agriculture and related areas.
- Will also have technical knowledge in Automation and plant monitoring system

2. Consumables:

The cost incurred in creating the structure of Vertical farming (Soil, steel structure), Autonomous drip irrigation system, overhead tank.


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3. Travel:

The expenditure towards Purchase of components, attending technical Seminar for improving knowledge.

4. Other Costs (if any):


Costs of Contingencies are such as Scaling Removal Purpose within the Drip Tubes and Cloud Storage charges for health monitoring of different plant performed by image processing techniques.

BUDGET FOR SALARIES/WAGES

Designation (number of persons)	Monthly Emoluments =12,000 rupees			Total (m.m.)*
	1 st yr.	2 nd yr	3 rd yr.	
Full time				
i) Research Assistant	1,44,000	1,44,000	-	2,88,000
ii)	-	-	-	-
Part time				
i)	-	-	-	-
ii)	-	-	-	-
Total	1,44,000	1,44,000	-	2,88,000

BUDGET FOR CONSUMABLES

Items Name & Quantity	1 st yr.	2 nd yr	3 rd yr.	Total Budget (In Rupees)	Justification
Sand	10,000	-	-	10,000	Initially to set up vertical farming we need sand and in upcoming years it can be maintained as per needed
Fertilizer	10,000	10,000	-	20,000	Initially to set up vertical farming we need fertilizers, urea, potash and so on
Seeds	5,000	5,000	-	10,000	For vertical farming we need fine quality of seed in the first year and we can keep the harvested product for the next years seed



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BUDGET FOR PERMANENT EQUIPMENT

Items Name of Equipment	1 st yr.	2 nd yr	3 rd yr.	Total Budget (In Rupees)	Justification
Steel racks 5 No's (Steel Pipes, GI Sheets, Welding Rods)	1,20,537	-	-	1,20,537	Steel rack platform for vertical farming
Raspberry Pi4 4GB, Raspberry Pi X400 Multifunctional Expansion Board, 12.3 MP High Quality camera, High quality Lens, Drone Accessories Drone Intelligent flight Battery, Spraying Tank, Spraying Accessories, Air Valve, Soil Humidity, pH, NPK, Temperature sensors.	1,86,593.40	-	-	1,86,593.40	IoT System Sensors, Drone with sprayer and HD camera for monitoring health of the plant
Drip tubes 16 mm, Tee/Take off/Tap/End Cap, Emitters	7,280	-	-	7,280	For drip irrigation of plants
Overhead tanks	5,959	-	-	5,959	To support irrigation system we need a 1000+250 liters tank
Brass valves, UPVC Pipes and Endcaps, UPVC Elbows/Tee Joints and 1 HP water pump, SS clamps screws	23,816.80	-	-	23,816.80	For providing water supply and bio fertilizers to vertical farming
Total	3,44,186.20	-	-	3,44,186.20	

D. PROFORMA FOR BIODATA OF INVESTIGATORS

- A. **Name:** Dr. R. Nandakumar
 B. **Date of Birth:** 07.05.1979
 C. **Institution:** K S R Institute for Engineering & Technology
 D. **Whether belongs to SC/ST:** No
 E. **Academic career:** 21 Years
Professional career: Nil
 F. **Award/prize/ certificate etc., won by the investigator:**
 1. "BEST TEACHER AWARD" from Junior Chamber International
 (JCI- Erode) 2018.


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Gardening Tools	2,500	-	-	2,500	Initially to set up vertical farming we need some gardening equipments
Total	27,500	15,000	-	42,500	

BUDGET FOR TRAVEL

Items Name & Quantity	1 st yr.	2 nd yr	3 rd yr.	Total Budget (In Rupees)	Justification
a. Local Travel	2,500	2,500	-	5,000	Purchase of Project related goods
b. Outstation	10,000	5,000	-	15,000	Transportation charges for attending workshops/Seminars.
Total	12,500	7,500	-	20,000	

BUDGET FOR OTHER COSTS

Items Name & Quantity	1 st yr	2 nd yr	3 rd yr	Total Budget (In Rupees)	Justification
a. Contingencies	6,000	6,000	-	12,000	Scaling Removal Purpose within the Drip Tubes
b. Others	6,000	6,000	-	12,000	Cloud Storage usage charges (500 Rs per month)
Total	12,000	12,000	-	24,000	


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2. "BEST SUPERVISOR AWARD" from IE chapter, India.
3. "DISTINGUISHED PROFESSOR AWARD" from NOVEL RESEARCH ACADEMY, Puducherry, India

G. Publication (Numbers only): 19

Books Research Paper, report General articles

1. "VLSI Design" - Dr.R.Nandakumar and G.Gowtham Raj, Charulatha Publications, 2017

Patents Others (please specify)

S.No	Title of the Invention	Application Number	Publication Date
1	A SYSTEM AND METHOD OF PESITICIDE DETECTION IN FRUITS AND VEGETABLES	202041032225	21.08.20
2	AN IMPROVED BELBIC CONTROLLER FOR PMBLDC MOTOR DRIVES USING EMOTIONAL LEARNING TECHNIQUES	202041030788A	07.08.20
3	DOOR HANDLE SANITIZER DISPENSER	20204102744A	10.07.20
4	A NOVEL METHOD FOR DETECTION OF QUALITY OF APPLES USING EDGE DETECTION APPROACH	202041025188A	19.06.20
5	A METHOD FOR RAINFALL PREDICTION USING ARTIFICIAL NEURAL NETWORKS	202011056465A	01.01.21

H. List of completed and ongoing projects

Sl. No.	Title of project	Duration		Total cost	Funding Agency
		From	To		
1	An Image Processing System for Early Detection of Cardiovascular Diseases	2012	2015	Rs. 10,00,000	AICTE - RPS

I. Projects submitted

Sl. No.	Title of project	Name of Organization	Status
NIL			


 (Name & Signature)
Dr. R. Nandakumar

Date: 15.08.2021

Place: Thokkavadi


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Co-ordinator

gopi_palani@yahoo.com

[Submitted Applications](#)[Edit Resource Person](#)[Profile](#)[Workshops](#)[Participants](#)[Test Marks](#)[Feedbacks](#)[Attendance Preview](#)[Certificate](#)

Co-ordinator Details

Name:	GOPINATH P
Gender:	Male
Date of birth:	1976-04-13
Father's Name:	Dr.G.Palani
Phone:	9952555077
Whatsapp Number:	9500998458
Email:	gopi_palani@yahoo.com
Alternate Email:	gopipalani@ksriet.ac.in
Employee ID:	IETFME02
Designation:	Professor
Specialization:	Composite materials
Experience of Teaching:	11 Years 06 Months
Address:	K S R Institute for Engineering and Technology, KSR Kalvi Nagar, Tiruchengode, Tamilnadu.
Pincode:	637215

Institute Details

Institute Name :	K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY
Institute Address :	KSR Kalvinagar, Tiruchengode
Institute State :	TAMIL NADU
Institute District:	Namakkal
Institute Pincode:	637215
Institute Town/Village:	Tiruchengode
Institute Type:	Private Unaided
Intake Capacity:	360
No. of Labs:	40
Institute Website:	www.ksriet.ac.in
Institute Head Name:	Dr. M.VENKATESAN

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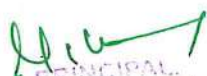
Institute Head Mobile: 9944456056
 Institute Head Designation: Principal
 Institute Head Email: principal@ksriet.ac.in
 Institute NIRF Ranked: No
 Institute NAAC Accredited: No
 Institute NBA Accredited: Yes

Area: Engineering
 Sub Thrust Area: Organ Printing Technology
 Title of FDP: Hybrid manufacturing solutions for Complex Engineering/Medical Ap
 Days of FDP: 5
 FDP Start Date: 2021-07-12
 FDP End Date: 2021-07-16
 Mode of FDP: Online
 Conducted ATAL: No
 No. of Tentative Resource Person(s): 5

Name	Number	Email	Specializtaion	State	City	Orga. Nam
Dr. P.Suresh	9994733793	coe@mec.edu.in	Mechanical Engineering	Tamil Nadu	Namakkal	Mutl Engi
Dr. A.Kumaravel	9443553626	kumaraveliitm@yahoo.com	Machine Design	Tamil Nadu	Namakkal	K.S.I of te
Dr. N.Nandhakumar	9994496070	nannthu@yahoo.com	Mechanical Engineering	Tamil Nadu	Coimbatore	Govt Tech

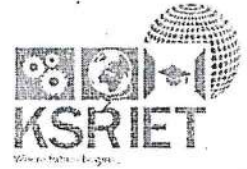
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K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University)
UG Programmes (CSE, EEE, ECE, MECH, IT) Accredited by NBA



R. Srinivasan B.B.M.,
Chairman cum Managing Trustee

Dr. M. Venkatesan, M.E., Ph.D.,
Principal

Date: 01/03/2021

To,

The Director,
AICTE Training and Learning (ATAL) Academies,
All India Council for Technical Education,
New Delhi.

Sub: Consent to organize Online AICTE Training and Learning (ATAL) FDP at K S R Institute for Engineering and Technology - Reg.

Dear Sir,

I am pleased to consent to organize an AICTE Training and Learning (ATAL) FDP at our institute on "Hybrid manufacturing solutions for Complex Engineering/Medical Applications" from 12.07.2021 to 16.07.2021. The Proposed FDP, if approved, will be coordinated by Dr.P.Gopinath, Professor and Head/ Department of Mechanical Engineering.

This is also confirmed that maximum 5 best proposals are being consented from this institute as maximum 5 proposal are allowed for a year

Sincerely,

Head of Institution

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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DIST. TAMIL NADU.

K.S.R. Kalvi Nagar, Tiruchengode - 637 215, Namakkal Dist., Tamil Nadu, India.

Tel: +91 - 4288 - 274773 | Fax: +91 - 4288 - 274773 | E-mail: admin@ksriet.ac.in | www.ksriet.ac.in

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NAMAKKAL DI. TAMIL NADU.



सत्यमेव जयते
Ministry of Science & Technology
Government of India

Project Proposal On

"Solar Water Distillation"

Submitted to

Division :Technology Missions Division

Programme or Scheme : WTI Call 2021 on Desalination
Technologies

Submitted by

Project Investigator:

Dr. R MANI

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY-
TIRUCHENGODE


PRINCIPAL,

K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALYANAGAR,
TIRUCHENGODE - 637 215,
NAMAKKAL Dt, TAMIL NADU.

Part 1 : General Information

General Information:

1. Name of the Institute/University/Organisation submitting the Project Proposal :

KSR INSTITUTE FOR
ENGINEERING AND TECHNOLOGY

2. State : Tamilnadu

3. Principal Investigator Name: Dr. R MANI .

4. Category: OBC

5. Type of the Institue : Academic Institutions (Private)

6. Project Title : Solar Water Distillation

7. Division : Technology Missions Division

8. Programme Or Scheme : WTI Call 2021 on Desalination Technologies

9. Academic Area : Mechanical Engineering,

10. Application Area : Water,

11. Government National Initiative : Make in India, Startup India, Digital India,

12. Type of Proposal : Proposal Against Call

13. Project Duration : 3 Years and 0 Months

14. Proposal Submit Date : 09/09/2021

15. Project Keywords : Solar distillation, Renewable energy, Solar stills.

16. Project Summary :


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K S R KALVINAGAR,
TIRUCHENGODE-637 215,
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ABSTRACT

Water is a basic necessity for man along with food and air. Fresh water resources usually available are rivers, lakes and underground water reservoirs.

The main problem of this society is the limited availability of clean water resources and the abundance of impure water. In coastal areas, abundance of salt water is available but portable water is not available.

This project aims to make a water distillation system that can purify impure water from any source. This system is relatively cheap, portable and depends only on renewable solar energy.

Our project aims to produce clean drinking water from solar energy distillation plants.

Keyword Solar distillation, Renewable energy, Solar stills.

WORKING PRINCIPLES

Distillation is one of the many processes that can be used for water purification. This requires an energy input as heat, electricity and solar radiation can be the source of energy. Solar distillation is an attractive process to produce portable water using free of cost solar energy. This energy is used directly for evaporating water inside a device usually termed a Solar still. Solar stills are used in cases where rain, piped or well water is impractical, such as in remote homes or during power outages. Different versions of a still are used to desalinate seawater, in desert survival kits and for home water purification.

Solar distillation systems can be classified as

passive

active

Solar radiation is the input energy of the passive solar stills, but the efficiency of the system is low. Attempts have been made to increase the efficiency and productivity by preheating the saline water in solar stills.

Active solar distillation, an additional source of thermal energy is required for faster evaporation inside the same passive solar still. The additional source may be a solar energy based system or thermal energy contained in hot water which is discharged by other industries.

Listed are the different types of passive solar water distillers

- Single effect Stills These are the most common and simplest stills. Only one interface is necessary to convey the energy and collect the condensate.
- Multi effect Stills They require double the effort in regards to ensuring tight seals and can be more difficult to clean, but they can significantly increase the production of distilled water.
- Basin type Stills They contain the water in an impervious material that is a component of the entire enclosure and these are the most common type.
- Wick Stills Use cloth-like materials that use capillary action to propagate the water through the system.
- Multi wick Stills These stills, like wick and multi effect stills, greatly increase the productivity by increasing the influenced surface area exponentially.
- Diffusion Stills They use the ideas introduced by the multi effect and wick stills and are a further advancement of both. They consist of a series of closely spaced parallel partitions in contact with saline soaked wicks and they have great potential because of their high productivity and simplicity.

For people concerned about the quality of their municipality supplied drinking water and unhappy with other methods of additional purification available to them, solar distillation of tap water or brackish groundwater can be a pleasant, energy efficient option. Solar distillation is an attractive alternative because of its simple technology, non requirement of highly skilled labor for maintenance work and low energy consumption.

The use of solar thermal energy in saltwater desalination applications has so far been restricted to small scale industry in rural areas. The reason for this has mainly been explained by the relatively low productivity rate compared to the high capital cost. However, the coming shortage in fossil fuel supply and the growing need for fresh water in order to support increasing water and irrigation needs, have motivated further development of water desalination and purification by renewable energies.

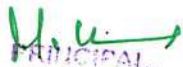
Advantages

- It is a relatively cheap and low-maintenance system.
- It can be used at the household level and scaled up through programmatic approaches.
- There are climate change adaptation and mitigation benefits.
- There are no energy costs.
- There are no moving parts.

Part 2: Particulars of Investigators

Principal Investigator:

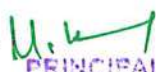
1. Name: Dr. R MANI
Gender: Male
Date of Birth: 29/05/1968


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TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

Designation : PROFESSOR
Department: MECHANICAL ENGINEERING
Institute/University: KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
State: Tamilnadu
District: Namakkal
City/Place: TIRUCHENGODE
Address: KSR KALVI NAGAR, THOKKAVADI
Pin: 637215
Communication Email: maniskpcpri@ksriet.ac.in
Alternate Email: maniskpcpri@gmail.com
Mobile: 8012078075
Phone: 04288274773
Fax: 04288274773
Category: OBC

Co-Investigator:

1. Name: Dr. P GOPINATH
Gender: Male
Date of Birth: 12/04/1976
Designation : HOD
Department: MECHANICAL ENGINEERING
Institute/University: K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY
State: Tamilnadu
District: Namakkal
City/Place: TIRUCHENGODE


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Pin: 637215

Communication Email: gopipalani@ksriet.ac.in

Alternate Email: gopinath.palani@gmail.com

Mobile: 9500998458

Phone: 04288274773

Fax: 04288274773

Category: OBC

2. Name: Dr. P KANAKARAJAN

Gender: Male

Date of Birth: 25/04/1967

Designation : ASSOCIATE PROFESSOR

Department: MECHANICAL ENGINEERING

Institute/University: K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

State: Tamilnadu

District: Namakkal

City/Place: TIRUCHENGODE

Address: KSR KALVI NAGAR
TIRUCHENGODE

Pin: 637215

Communication Email: kanagu.dhana@ksriet.ac.in


Alternate Email: kanagu.dhana@gmail.com

Mobile: 9842555119

Phone: 04288274773

Fax: 04288274773


Category: OBC


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Part 3: Suggested Refrees

Suggested Refrees:

1. Name: M.Chandrasekaran
- Mobile: 9790857137
- Designation : Director,
- Email: chandrasekar2007@gmail.com
- Institute/University: VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES (VISTAS), VELS UNIVERSITY
- Address: Velan Nagar, P.V.Vaithiyalingam Road, Zamin Pallavaram, Chennai
- Academic Area: Mechanical Engineering,
- Application Area: Water,
- State: Tamilnadu
- District: Chennai
- City: Chennai
- Address: VELS Institute of Science, Technology and Advanced Studies (VISTAS), School of Mechanical Engineering
VELS University
Pallavaram, Chennai – 600117
- Pin Code: 600117
2. Name: P.Ganesh Kumar
- Mobile: 9841878682
- Designation : Professor
- Email: pgkumar@lnrecc.com
- Institute/University: VELAMMAL ENGINEERING COLLEGE
- Address: Surapet, Velammal Nagar
- Academic Area: Mechanical Engineering,
- Application Area: Water,


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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
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State: Tamilnadu
District: Chennai
City: chennai
Address: 979, Mount Poonamalle Road,
Manapakkam , Chennai - 600089
Pin Code: 600089

3. Name: S.Kandasamy
Mobile: 9443966566
Designation : Professor
Email: skandasamy@kongu.ac.in
Institute/University: KONGU ENGINEERING COLLEGE
Address: KONGU ENGINEERING COLLEGE
PERUNDURAI, ERODE
Academic Area: Chemical Science,
Application Area: Water,
State: Tamilnadu
District: Erode
City: Perundurai
Address: Kongu Engineering College
Prundurai
Erode, Tamilnadu
Pin Code: 638060

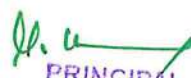
Part 4: Financial Details

Financial Details:

A. Non - Recurring

Equipment

S.	Equipments	Qty.	Justification	1 Year	Total
1.	Equipment/Accessories.	1	PH meters	165547	165547
2.	Equipment/Accessories	1	Solar Water Distillation setup	2500000	2500000
Total				2665547	2665547


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TIRUCHENGODE-637 215,
NAMAKKAL DI. TAMIL NADU.

Other NonRecurring

S.	Description	Justification	1 Year	2 Year	3 Year	Total
1.	Maintenaces	Calibration	0	15000	0	15000
2.	Maintenances	Calibration	0	0	10000	10000
3.	Maintenances of PH meter	Calibration	8000	0	0	8000
Total			8000	15000	10000	33000

B. Recurring

Project Staff

S.	Project Staff	No.	Justification	1 Year	2 Year	3 Year	Total
1.	Lab attendant	5	manpower	120000	120000	120000	360000
2.	Project Assistant	5	Manpower	240000	240000	240000	720000
3.	Project Associate	3	Manpower	180000	0	360000	540000
4.	Project Associate	10	Manpower	0	1200000	0	1200000
Total				540000	1560000	720000	2820000

Consumables

S.	Items	Qty.	Justification	1 Year	2 Year	3 Year	Total
1.	Consumables	5000	Chemical	100000	100000	100000	300000
Total				100000	100000	100000	300000

Contingency

S.	Description	Justification	1 Year	2 Year	3 Year	Total
1.	Contingency	Expenses	50000	50000	50000	150000
Total			50000	50000	50000	150000

Travel

S.	Description	Justification	1 Year	2 Year	3 Year	Total
1.	Travel	Expenses	50000	50000	50000	150000
Total			50000	50000	50000	150000

Overhead

S.	Description	Justification	1 Year	2 Year	3 Year	Total
1.	Overhead	Expenses	100000	102050	97500	299550
Total			100000	102050	97500	299550

Any Other Recurring

S.	Description	Justification	1 Year	2 Year	3 Year	Total
1.	Other cost	Other expenses	20000	20000	20000	60000
Total			20000	20000	20000	60000

Budget Head Summary in (INR)

Budget Head	Year-1	Year-2	Year-3	Total
1- Non-Recurring				
Equipment	2665547	0	0	2665547
Other NonRecurring	8000	15000	10000	33000
Subtotal (Capital)	2673547	15000	10000	2698547
2- Recurring				
Project Staff	540000	1560000	720000	2820000
Consumables	100000	100000	100000	300000

Contingency	50000	50000	50000	150000
Travel	50000	50000	50000	150000
Overhead	100000	102050	97500	299550
Any Other Recurring	20000	20000	20000	60000
Subtotal (General Items)	860000	1882050	1037500	3779550
Total Project Cost (Capital + General)	3533547	1897050	1047500	6478097

Part 6: PFMS Details

PFMS Unique Code Available: No

Type of Registration : Academic Institutions (Private)

PAN Number : AAATA2605F

Agency Name : AARTHI EDUCATIONAL AND CHARITABLE TRUST

Act Registration No. : 386 OF 1996

Registering Authority : Sub-Registrar

TIN Number : NA

TAN Number : NA

GST Number : NA

Block No /Building /Village /Name of Premises : 5492

Road/Street/Post Office : KSR KALVI NAGAR,

Area/Loacality : KUCHIPALAYAM, TIRUCHENGODE

City : NAMAKKAL

Pin Code : 637215

State : Tamilnadu


District : Namakkal

Contact Person : Dr.M. VENKATESAN

Designation : PRINCIPAL

Phone Number : 04288274773


Mobile Number : 9944456056


PRINCIPAL,
K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

Email ID : principal@ksriet.ac.in
Bank Name : LAKSHMI VILAS BANK
Branch Address of the Bank : KSR EDUCATIONAL INSTITUTION (KSREI) COMPUS,
ERODE MANI ROAD, THOKKAVADI, TIRUCHENGODE
Bank Branch Name : THOKKAVADI
Bank Account Number of the Beneficiary : 0751301000154073
IFSC Code of the bank : LAVB0000751
MICR Code of the bank : 638056014

Part 5: Current Ongoing Project

Current Ongoing Project: NA


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TIRUCHENGODE-637 215,
NAMAKKAL DT, TAMIL NADU.

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY
Tiruchengode-637 215
Research & Development
LIST OF PROJECT PROPOSALS SUBMITTED TO TNSCST

S. No	Scheme / Proposal Name	Title	Student Name	Guide Name	Amount Applied
1.	TNSCST	Rash Driving Alert System for School, College and Private School	Baskar S Bharathipriyan K Monisa B Athif L	Dr. R. Jeyabharath	Rs. 10,000
2.	TNSCST	E-Bicycle rental System	Arvindkumar N Gokulraj P Mythreyan J Prasath S	Dr. P. Veena	Rs. 10,000
3.	TNSCST	Innovative IoT enabled bed for infants equipped with an auto quick dry sheet changer at bed wetting	Nandhakumar J Gokul P Meiyarasu K Sankar S	Dr. T. Srihari	Rs. 10,000
4.	TNSCST	Smart Wearable System to Deafened for Doorbell Indication	Hemalatha S Sarathivasan J Vijay E	Dr. C. Santha Kumar	Rs. 10,000
5.	TNSCST	IoT based Rash Driving Detection and Alert System	Gokulrayar R Jambukesh I Savuriyappan S Tamilarasan K	Dr. A. Murugesan	Rs. 10,000
6.	TNSCST	Remote Accessible Irrigation System	Dheenathayalan G Dhatchanamoorthi A Naveen N Sridhar D	Y Kalimuthu	Rs. 10,000
7.	TNSCST	Gaming Dustbin controlled by Sensors	Balaji S Devaprasath V Jaillesh K Yogech K	V.Prakasham	Rs.9,800
8.	TNSCST	Driver Hiring Application	Aarthi M Bhuvan Shankar B Kavya Priyadharshini M Sharmila R	S.Hamsareka	Rs.16,540

9.	TNSCST	Augmented Reality Based E-Commerce	Maheshkumar K S Soundarya GG Surendhiran S Logeshwaran M	Dr.B.Kalaavathi	Rs.40,000
10.	TNSCST	Patient Report Stowing System	Jothivel D Kavin M Kiruthika S Muthuselvi A	V.Sowmitha	Rs.45,000
11.	TNSCST	Virtual Queueing System in Ration Shop	Gowsalya G Gowsikan R Subash S Sushma R	V.Gopinath	Rs.33,999
12.	TNSCST	Alexa Story Telling Software in Tamil	Ishwarya R Hemalatha Devi P Soundarya C Rajkumar S	S.Vimala	Rs.55,000
13.	TNSCST	Smart Health Monitoring System for ICU Patients	Reshma R Srija M Hari Billgates S Naveen A	V.Gopinath	Rs.7,300
14.	TNSCST	Intelligent Luminus Control	Pavithra M Vaishnavi K Yosodha S	Dr.S.Premalatha	Rs.7,500
15.	TNSCST	Smart Shoes using IoT	Dharani B Deepthee M Abarna V Shalini S	T.Marthandan	Rs.7,500
16.	TNSCST	Optimized Irrigation System using IoT based Soil Moisture and Weather Monitoring	Amutha K Kannan M Thangaraj K	T.Marthandan	Rs.7,500
17.	TNSCST	Design and Fabrication of Scotch Yoke Mechanism using Double side water pumping system	Kavin S Krishnakumar R Prasanth S Samrat G		
18.	TNSCST	Design and Fabrication of Scotch Yoke Mechanism using Automatic stamping machine	Kavin kumar S Kaviraj G Manivasagam M Vignesh G		

19.	TNSCST	Design and Fabrication of Automatic door opening using ARDUINO	Sridhar P Sudarshan R Vijay S Vimalkumar V		
20.	TNSCST	Design and Fabrication of Wall painting Robot	Arulbharathi GV Chandru K Manikandan P Saran K		
21.	TNSCST	Design and Fabrication of Break drum using composite materials	Boobalan S Dhanasekar D Gowtham K		
22.	TNSCST	Design and Fabrication of E-Bike	Jayaprakash S Praveen M Rajasekar S Sathishkumar V		
23.	TNSCST	Design and Fabrication of worm gear screw jack	Arivazhahan R Dharaneeshwara NN Venkatesh P Yogesh G		
24.	TNSCST	Design and Fabrication of Reverse Braking system.	Ariharan M Arun prakash KA Karthick raja V Monishvaran T		
25.	TNSCST	Design and Fabrication of Oil skimmer	Gopinath S Krishnan S Ramkumar S Srinath S		
26.	TNSCST	Design and Fabrication of Solar Lawn Mower	Selvaraj K Vikram S Kavin G Aswin M		

**RASH DRIVING ALERT SYSTEM
FOR SCHOOL, COLLEGE AND PRIVATE ROUTE BUS**

Submitted to
TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE CAMPUS, CHENNAI-600025




Submitted By

BASKAR S	(Reg.No: 731618105002)
BHARATHIPRIYAN K	(Reg.No: 731618105003)
MONISA B	(Reg.No: 731618105012)
ATHIF L	(Reg.No: 731618105301)

BACHELOR OF ENGINEERING
in
ELECTRICAL AND ELECTRONICS ENGINEERING
K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY
TIRUCHENGODE-637 215

x


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K S R, KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

Engineering Stream

Project to be considered under the Sector: CSE-CSE/IT/Computer Application/Software; ECV-Civil Engineering; EME-Mechanical/ Mechatronics/ Production/automobile etc; EEE-EEE/ECE/EIE/ICE; CHE-Chemical Engineering

	CSE	ECV	EME	EEE	CHE
CODE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Institution Details

INSTITUTION CATEGORY *

	GOVT.	SELF FINANCE	GOVT. AIDED	UNIVERSITY
STATUS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

STUDENT(S) NAME (Maximum 4 students) *

Baskar S, Barathipriyan K, Monisa B, Athif L

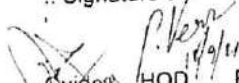
STUDENT STUDYING *

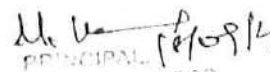
	U.G ENGINEERING	P.G PROFESSIONAL COURSE	P.G SCIENCE
COURSE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>


CERTIFICATE

This is to certify that Mr./Miss. W. P. JEYABHARATHI is a bonafide final year student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

... Signature of


Guide HOD
DR. P. VEENA, M.E., PH.D.,
Professor & Head
Department of EEE
K.S.R INSTITUTE FOR


PRINCIPAL
Principal/ Head of the Institution
K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR
TIRUCHENGODE-637 215,
NAMAKKAL Dt., TAMIL NADU.


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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL Dt., TAMIL NADU.

E-BICYCLE RENTAL SYSTEM

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

ARVIND KUMAR N	(Reg.No: 731618105001)
GOKULRAJ P	(Reg.No: 731618105007)
MYTHREYAN J	(Reg.No: 731618105013)
PRASATH S	(Reg.No: 731618105502)

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in

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ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

Engineering Stream

Project to be considered under the Sector: CSE-CSE/IT/Computer Application/Software; ECV-Civil Engineering; EME-Mechanical/ Mechatronics/ Production/automobile etc; EEE-EEE/ECE/EIE/ICE; CHE-Chemical Engineering

	CSE	ECV	EME	EEE	CHE
CODE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Institution Details

INSTITUTION CATEGORY *

	GOVT.	SELF FINANCE	GOVT. AIDED	UNIVERSITY
STATUS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

STUDENT(S) NAME (Maximum 4 students) *

Arvind Kumar.N, Gokulraj.P,Mythreyan.J,Prasath.S

STUDENT STUDYING *

	U.G ENGINEERING	P.G PROFESSIONAL COURSE	P.G SCIENCE
COURSE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

CERTIFICATE

This is to certify that Mr./Miss. DY. P. VEENA is a bonafide final year student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

[Signature]
Dr. P. VEENA, M.E., Ph.D.
Principal & Head
Department of EEE
K.S.R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY

[Signature]
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU

[Signature]
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU

**OPTIMIZED IRRIGATION SYSTEM USING IOT BASED SOIL
MOISTURE AND WEATHER MONITORING**

A PROJECT REPORT

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI – 600 025



TNSCST

Submitted by

AMUTHA K (731618106003)

KANNAN M (731618106014)

THANGARAJ K (731618106032)

In Partial Fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that's Ms. AMUTHA K is a bonafide final year student of Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council at the completion of the project by the end of April 2022.

T. Madhavan
22/9/21

Signature of the Guide

P. Vignesh
23/9/21

Signature of the HoD


M. Vignesh
Signature of the Principal

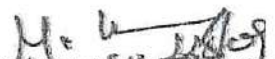
PRINCIPAL,
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY
K. S. R. KALVI NAGAR
TIRUCHENGODE-637 2
NAMAKKAL DISTRICT, TAMIL NADU

CERTIFICATE

This is to certify that's Mr. KANNAN M is a bonafide final year student of Engineering of our college and it is also certified that two copies of Utiliza certificate and final report along with seminar paper will be sent to the council a completion of the project by the end of April 2022.



Signature of the Guide



Signature of the HoD

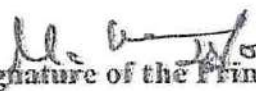

Signature of the Principal
PRINCIPAL.
K. S. R. INSTITUTE F
ENGINEERING AND TECH
K. S. R. KALVI NAG,
TIRUCHENGODE-637
NAMAKKAL DI. TAMIL NA

CERTIFICATE

This is to certify that Mr. **THANGARAJ K** is a bonafide final year student of U.G Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council on completion of the project by the end of April 2022.


Signature of the Guide


Signature of the HoD


Signature of the Prin

PRINCIPAL
K. S. R. INSTITUTE
ENGINEERING AND TECHNOLOGY
K. S. R. KALVIN
TIRUCHENGODE-
K. S. R. KALVIN TAMIL

Innovative IoT enabled bed for infants equipped with an auto quick dry sheet changer at bed wetting

under the student project proposal 2021-2022

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By:

Guide:

Dr T SRIHARI, Professor /EEE

Project Team Members:

NANDHAKUMAR J (Reg.No: 731618105014)

GOKUL P (Reg.No: 731618105006)

MEIYARASU K (Reg.No: 731618105011)

SANKAR S (Reg.No: 731618105016)

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637215


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ENGINEERING AND TECHNOLOGY,
K S R, KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMBARKAL DI, TAMIL NADU.

INSTITUTION CATEGORY *

GOVT. SELF FINANCE GOVT. AIDED UNIVERSITY

STATUS

STUDENT(S) NAME (Maximum 4 students) *

Nandhakumar J., Gokul P., Meiyarasu K., Sankar S.

STUDENT STUDYING *

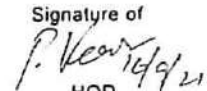
U.G ENGINEERING P.G PROFESSIONAL COURSE P.G SCIENCE

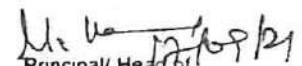
COURSE

CERTIFICATE

This is to certify that Mr./Miss _____ is a bonafide final year student of P.G Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


15/9/2021
Dr. S. HARI, M.E., Ph.D.,
Project Coordinator
K.S.R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.

Signature of

14/9/21
HOD
Dr. P. VEENA, M.E., Ph.D.,
Professor & Head
Department of EEE
K.S.R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.



12/09/21
Principal/ Head of
the Institution
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.

Note:
N.B. 2 copies of the proposals are to be submitted through proper channel to The Member Secretary,
TNSCST, DOTE Campus, Chennai - 600 025 on or before 17 September 2021, 5.00PM

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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.

SMART WEARABLE SYSTEM TO DEAFENED FOR DOORBELL INDICATION

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600 025



Submitted By

HEMALATHA S (Reg.No: 731618105009)

SARATHIVASAN J (Reg.No: 731618105017)

VIJAY E (Reg.No: 731618105022)

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215


PRINCIPAL.

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K S R, KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL, DIST. TAMIL NADU.

HEMALATHA S, SARATHIVASAN J , VIJAY E

STUDENT STUDYING *

U.G ENGINEERING P.G PROFESSIONAL COURSE P.G SCIENCE

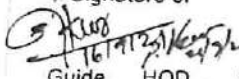
COURSE



CERTIFICATE

This is to certify that Mr./Miss. HEMALATHA S SARATHIVASAN J, VIJAY E is a bonafide final year student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of


Guide

HOD

HEAD OF THE DEPARTMENT,

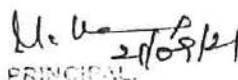
DEPARTMENT OF EEE.

K S R INSTITUTE FOR

ENGINEERING AND TECHNOLOGY.

TIRUCHENGODE-637 215.

N.B.: 2 copies of the proposals are to be submitted through proper channel to The Member Secretary, TNSCST, DOTE Campus, Chennai - 600 025 on or before 17 September 2021, 5.00PM


Principal

PRINCIPAL

K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY.

K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

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Principal

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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

IOT BASED RASH DRIVING DETECTION AND ALERT SYSTEM

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

GOKULRAYAR R	(Reg.No: 731618105008)
JAMBUKESHI	(Reg.No: 731618105010)
SAVURIYAPPAN S	(Reg.No: 731618105018)
TAMILARASAN K	(Reg.No: 731618105302)

BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215


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K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVINAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI. TAMIL NADU.

Institution Details

INSTITUTION CATEGORY *

GOVT. SELF FINANCE GOVT. AIDED UNIVERSITY

STATUS

STUDENT(S) NAME (Maximum 4 students) *

Gokulrayar R, Jambukesh I, Savuriyappan S, Tamilarasan K

STUDENT STUDYING *

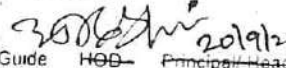
U.G ENGINEERING P.G PROFESSIONAL COURSE P.G SCIENCE

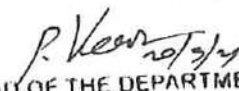
COURSE

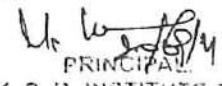
CERTIFICATE

This is to certify that Mr./Miss. _____ is a bonafide final year student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of


Guide HOD - Principal/Head of the Institution

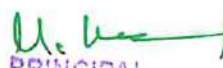

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DEPARTMENT OF EEE.,
K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
TIRUCHENGODE-637 215.


PRINCIPAL,
K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU

Note:

N.B.: 2 copies of the proposals are to be submitted through proper channel to The Member Secretary, TNSCST, DOTE Campus, Chennai - 600 025 on or before 17 September 2021, 5.00PM

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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

REMOTE ACCESSIBLE IRRIGATION SYSTEM

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

DEENATHAYALAN G (Reg.No: 731618105004)

DHATCHANAMOORTHY A (Reg.No: 731618105005)

NAVEEN N (Reg.No: 7316'8105015)

SRIDHAR D (Reg.No: 731618105019)


BACHELOR OF ENGINEERING

in

ELECTRICAL AND ELECTRONICS ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215


PRINCIPAL,
K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI. TAMIL NADU.

Engineering Stream

Project to be considered under the Sector: CSE-CSE/IT/Computer Application/Software; ECV-Civil Engineering; EME-Mechanical/ Mechatronics/ Production/automobile etc; EEE-EEE/ECE/EIE/ICE; CHE-Chemical Engineering

	CSE	ECV	EME	EEE	CHE
CODE	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Institution Details

INSTITUTION CATEGORY *

	GOVT.	SELF FINANCE	GOVT. AIDED	UNIVERSITY
STATUS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

STUDENT(S) NAME (Maximum 4 students) *

Deenathayalan G, Dhatchanamoorthis A, Naveen N, Sridhar D

STUDENT STUDYING *

	U.G ENGINEERING	P.G PROFESSIONAL COURSE	P.G SCIENCE
COURSE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

CERTIFICATE

DEENATHAYALAN-G, DHATCHANAMOORTHIA
NAVEEN-N, SRIDHAR D

This is to certify that Mr./Miss _____ is a bonafide final year student of P.G. Science / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

[Handwritten Signature]
 Guide: P. N. S. R. ...
 Professor & Head
 Department of EEE
 K.S.R INSTITUTE FOR
 ENGINEERING AND TECHNOLOGY,
 TIRUCHENGODE-637

[Handwritten Signature]
 PRINCIPAL
 K. S. R. INSTITUTE FOR
 ENGINEERING AND TECHNOLOGY,
 K. S. R. KALVI NAGAR,
 TIRUCHENGODE-637 215,
 NAMAKKAL DI, TAMIL NADU

[Handwritten Signature]
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 K S R KALVI NAGAR,
 TIRUCHENGODE-637 215,
 NAMAKKAL DI, TAMIL NADU

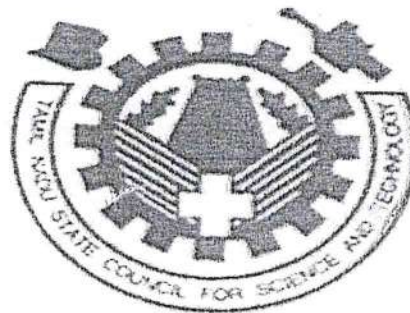
Smart shoes using IOT

A PROJECT REPORT

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI – 600 025



TNSCST

Submitted by

DHARANI B	(731618106006)
DEEPTHEE M	(731618106004)
ABARNA V	(731618106701)
SHALINI S	(731618106030)

BACHELOR OF ENGINEERING

in

ELECTRONICS AND COMMUNICATION ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE – 637 215

CERTIFICATE

This is to certify that Ms. DEBARANI B is a bonafide final year student of U.G engineer of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the A, 2022.

[Handwritten Signature]
22/9/21
Signature of the Guide

[Handwritten Signature]
22/9/21
Signature of the HoD

[Handwritten Signature]
22/9/21
Signature of the
Principal

HEAD OF THE DEPARTMENT,
Department of ECE,
K S R Institute for Engineering and Technology,
TIRUCHENGODE-637 215.

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K. S. R. INSTITUTE FOR
ENGINEERING AND TECHNOLOGY
K. S. R. KALVI NAGAR
TIRUCHENGODE-637 215
NAMAKKAL Dt. TAMIL NADU.

CERTIFICATE

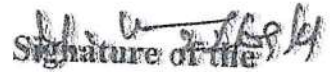
This is to certify that Ms. DEEPTHEE M is a bonafide final year student of U.G engineering of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022



Signature of the Guide



Signature of the HoD



Principal


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Department of ECE,
K S R Institute for Engineering and Technology,
TIRUCHENGOORE-614 015.


PRINCIPAL,
K. S. R. INSTITUTE FOR
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K. S. R. KALYANALAYAR
TIRUCHENGOORE-617 216,
NAMAIKKAL DE, TAMIL NADU.

CERTIFICATE


This is to certify that Ms. ABARNA V is a bonafide final year student of U.G engineering of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.


Signature of the Guide


Signature of the HoD


Signature of the Principal

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K S R Institute for Engineering and Technology,
TIRUCHENGODE-637 215.


K. S. R. INSTITUTE FOR
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K. S. R. KALVINAGAR,
TIRUCHENGODE-637 215,
SRIMAKKAL DISTRICT, TAMIL NADU.

CERTIFICATE

This is to certify that Ms. SHALINI S is a bonafide final year student of U.G engineering of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.

T. Mani
21/07/21

Signature of the Guide

P. Suresh
20/7/21

Signature of the HoD

M. V. Srinivas

Signature of the

Principal

HEAD OF THE DEPARTMENT,
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K. S. R. KALVI NAGAR,
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NAMAKKAL DISTRICT, TAMIL NADU.

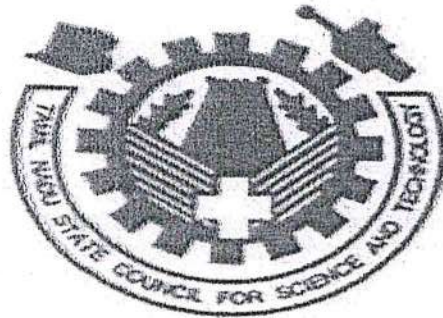
INTELLIGENT LUMINOUS CONTROL

A PROJECT REPORT

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI - 600 025



TNSCST

Submitted by

M.PAVITHRA (731618106020)

K.VAISENAVI (731618106034)

S.YASODHA (731618106035)

In Partial Fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

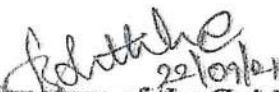
ELECTRONICS AND COMMUNICATION ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY


TIRUCHENGODE - 637 215

CERTIFICATE

This is to certify that Ms. M.PAVITHRA is a bonafide final year student of U.C Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.


Signature of the Guide


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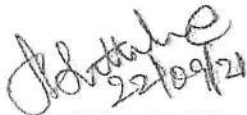

Signature of the Principal

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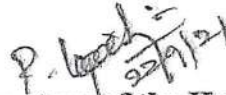
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CERTIFICATE

This is to certify that Ms.K.VAISHNAVI is a bonafide final year student of U.G Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.


22/09/21

Signature of the Guide


22/9/21

Signature of the HoD

HEAD OF THE DEPARTMENT,
Department of ECE,
K S R Institute for Engineering and Technology,
TIRUCHENGODE-637 215.


22/09/21

Signature of the Principal
PRINCIPAL,
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TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.

CERTIFICATE

This is to certify that **Ms. S.YASODHA** is a bonafide final year student of U.C Engineering of our college and it is also certified that two copies of Utilization certificate and final report along with seminar paper will be sent to the council after completion of the project by the end of the April 2022.

[Handwritten Signature]
22/09/21

Signature of the Guide

[Handwritten Signature]
22/9/21

Signature of the HoD

HEAD OF THE DEPARTMENT,
Department of ECE,
K S R Institute for Engineering and Technology,
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[Handwritten Signature]
22/9/21

Signature of the Principal

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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMARKAL DL TAMIL NADU.

AUTOMATIC DOOR OPENER USING ARDUINO AND PIR SENSOR

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

SRIDHAR P	(Reg.No: 731618114029)
SUDARSHAN R	(Reg.No: 731618114031)
VIJAY S	(Reg.No: 731618114034)
VIMALKUMAR V	(Reg.No: 731618114304)

BACHELOR OF ENGINEERING


in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215

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CERTIFICATE

This is to certify that Mr. SRIDHAR P is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

B. V. Mani
TST/21
Guide

[Handwritten Signature]
HoD

[Handwritten Signature]
Principal/ Head of the

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TIRUCHENGODE - 637 215,
NAMAKKAL Dt, TAMIL NADU.

DESIGN AND FABRICATION OF DOUBLE SIDE PUMP USING SCOTCH YOKE MECHANISM

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted by

KAVIN S

731618114014

KRISHNAKUMAR R

731618114017

PRASANTH S

731618114022

SAMRAT G

731618114026

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215

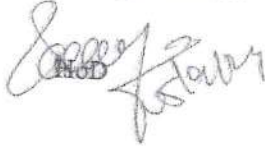
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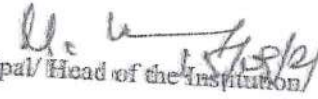
CERTIFICATE

This is to certify that Mr. SAMRAT G is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.



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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

SCOTCH YOKE MECHANISM USING AUTOMATIC STAMPING MACHINE

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

KAVIN KUMAR S

(Reg.No: 731618114015)

KAVIRAJ G

(Reg.No: 731618114016)

MANIVASAGAM M

(Reg.No: 731618114020)

VIGNESH G

(Reg.No: 731618114033)


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in

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TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

CERTIFICATE

This is to certify that Mr. VIGNESH G is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022

Signature of

[Handwritten signature]
HOD

[Handwritten signature]
Principal/ Head of the Institution

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NAMAKKAL DI, TAMIL NADU,

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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

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AUTOMATIC DOOR OPENER USING ARDUINO AND PIR SENSOR

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

SRIDHAR P

(Reg.No: 731618114029)

SUDARSHAN R

(Reg.No: 731618114031)

VIJAY S

(Reg.No: 731618114034)

VIMALKUMAR V

(Reg.No: 731618114304)

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in

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K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215


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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

CERTIFICATE

This is to certify that Mr. SRIDHAR P is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

Guide

[Handwritten Signature]
HOD

[Handwritten Signature]
Principal/ Head of the

Institution

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NAMAKKAL DL TAMIL NADU

[Handwritten Signature]
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL TAMIL NADU.

WALL PAINTING ROBOT

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

MANIKANDAN P

(Reg.No: 731618114019)

SARAN K

(Reg.No: 731618114027)

CHANDRU K

(Reg.No: 731618114006)

ARUL BHARATHI G V

(Reg.No: 731618114003)

BACHELOR OF ENGINEERING

in

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TIRUCHENGODE-637 215

PROJECT PROPOSAL


PRINCIPAL

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TIRUCHENGODE-637 215,
NAMAKKAL DI. TAMIL NADU.

CERTIFICATE

This is to certify that Mr.Manikandan P is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

M. P. Manikandan
15/12/21
Guide

[Handwritten Signature]
HOD

[Handwritten Signature]
15/12/21
Principal/ Head of the Institution

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NAMAKKAL DL. TAMIL NADU.

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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL. TAMIL NADU.

DESIGN AND FABRICATION OF BRAKE DRUM USING COMPOSITE MATERIALS

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025




Submitted By

BOOBALAN.S	(Reg.No: 731618114005)
DHANASEKAR.D	(Reg.No: 731618114007)
GOWTHAM.K	(Reg.No: 731618114011)

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING


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TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.


CERTIFICATE

This is to certify that Mr. GOWTHAM K is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


Signature of


Guide


Student


Principal/ Head of the Institution

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K. S. R. INSTITUTE FOR
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TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.


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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DL, TAMIL NADU.

DESIGN AND FABRICATION OF e-BIKE

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

JAYAPRAKASH S	(Reg.No: 731618114012)
PRAVEEN M	(Reg.No: 731618114023)
RAJASEKAR S	(Reg.No: 731618114024)
SATHEESH KUMAR V	(Reg.No: 731618114303)

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215


PRINCIPAL,

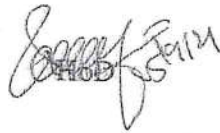
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

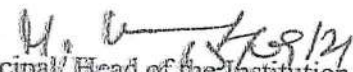
CERTIFICATE

This is to certify that Mr. JAYAPRAKASH S is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


Signature of


ide


HOD


Principal/ Head of the Institution

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K. S. R. KALVI NAGAR,
TIRUCHENGODE-637 215,
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL Dt. TAMIL NADU.

SCREW JACK USING WORM GEAR

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

ARIVAZHAHAN R	(Reg.No: 731618114002)
DIHARANEESHWARAN N	(Reg.No: 731618114008)
VENKATESH P	(Reg.No: 731618114032)
YOGESH G	(Reg.No: 731618114036)


BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215


PRINCIPAL,
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

CERTIFICATE

This is to certify that Mr. DHARANEESHWARAN N is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

A.P.
side

[Handwritten Signature]
HOD
15/04/22

[Handwritten Signature] 15/04/22
Principal/ Head of the Institution

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K. S. R. KALVI NAGAR,
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NAMAKKAL DI, TAMIL NADU.

[Handwritten Signature]
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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

**DESIGN AND FABRICATION OF
INTELLIGENT REVERSE BRAKING SYSTEM**

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

ARHARAN . M (Reg.No: 731618114001)

ARUN PRAKASH . K A (Reg.No: 731618114004)

KARTHICK RAJA . V (Reg.No: 731618114013)

MONISHVARAN . T (Reg.No: 731618114021)

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in

MECHANICAL ENGINEERING

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NAMAKKAL Dt. TAMIL NADU.


CERTIFICATE

It is to certify that Mr. KARTHICK RAJA V is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


Signature of


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HoD

 15/09/21
Principal/ Head of the Institution

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NAMAKKAL DI, TAMIL NADU.

OIL SKIMMER

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted By

KRISHNAN S	(Reg.No: 731618114018)
GOPINATH S	(Reg.No: 731618114016)
RAMKUMAR S	(Reg.No: 731618114025)
SRINATH S	(Reg.No: 731618114030)

BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE-637 215

PROJECT PROPOSAL


PRINCIPAL.

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TIRUCHENGODE-637 215,
NAMAKKAL Dt, TAMIL NADU.

CERTIFICATE

This is to certify that Mr.Gopinath S is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.

Signature of

de
15/01/21

HoD
15/01/21

Principal/ Head of the Institution
15/01/21

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NAMAKKAL DI. TAMIL NADU.

DESIGN AND FABRICATION OF SOLAR LAWNMOWER

Submitted to

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE CAMPUS, CHENNAI-600025



Submitted by

KAVIN G **731618114701**

VIKRAM S **731618114035**

SELVARAJ K **731618114028**

ASWIN M **731618114501**


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in

MECHANICAL ENGINEERING

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TIRUCHENGODE-637 215


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TIRUCHENGODE-637 215,
NAMAKKAL Dt, TAMIL NADU.


CERTIFICATE

This is to certify that Mr. KAVIN G is a bonafide final year student of U.G. Engineering professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


Signature of


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 15/09/21
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COMPUTERIZED PROCESS OF PROFICIENT CAMPAIGN FOR STUDENTS IN COLLEGE MANAGEMENT SYSTEM

A PROJECT REPORT

Submitted to

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY DOTE
CAMPUS, CHENNAI-600025



Submitted By

HARINI V	(Reg. No. 731618205010)
KAVYADEVI V	(Reg. No. 731618205012)
NIVEDHA V	(Reg. No. 731618205020)
PRIYADHARSHINI B	(Reg. No. 731618205022)

BACHELOR OF TECHNOLOGY

in

INFORMATION TECHNOLOGY

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

TIRUCHENGODE - 637 215


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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL Dt, TAMIL NADU.

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE Campus, Chennai-600025

STUDENT PROJECTS SCHEME

1. Name of the Student (s) : HARINI V
KAVYADEVI V
NIVEDHA V
PRIYADHARSHINI B
one valid e-mail id : nivedhavijayakumar1029@gmail.com
2. Name of the Guide : RAMYADHARSHINI S.S
Department : Information Technology.
Designation : Assistant Professor
Institutional Address : K S R Institute for Engineering and
Technology
K S R kalvi nagar,
Tiruchengode-637215,
Namakkal(DT), Tamilnadu, India.
- Phone No. & Mobile No. : 90253 74457
3. Project Title : COMPUTERIZED PROCESS OF
PROFICIENTI CAMPAIGN FOR
STUDENTS IN COLLEGE
MANAGEMENT SYSTEM
4. Sector in which my Project : Engineering and Tech.
(Computer Science)
5. Project Details : 1. Introduction 4. Work Plan
2. Objectives 5. Budget
3. Methodology 6. Any other details
6. Has a similar project been carried : No
out in your college / elsewhere? If
so furnish details of the previous
project and highlight the
improvements suggested in the
present one

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TIRUCHENGODE-637 215,
NAMAKKAL DT. TAMIL NADU.



(no subject)

1 message

Google Forms <forms-receipts-noreply@google.com>
To: nivedhavijayakumar1029@gmail.com

Wed, 15 Sep 2021 at 2:54 pm

Google Forms

Thanks for filling in

Here's what was received.

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
Student Project Scheme -2021-2022

Applicant's registration for data collection. Fill required details. Take a printout of the same, get signatures and send it with project details. [3 pages only].

Email *


nivedhavijayakumar1029@gmail.com

GUIDE NAME *

S.S.Ramyadharshni

DESIGNATION *

Assistant Professor


PRINCIPAL,
K S R INSTITUTE FOR
ENGINEERING AND TECHNOLOGY,
K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.

DEPARTMENT *

Information Technology

NAME OF THE INSTITUTION *

K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY

INSTITUTION ADDRESS WITH PINCODE *

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY, KSR kalvi nagar ,Thokkavadi,
Tiruchengode,637215

GUIDE CONTACT MOBILE NUMBER *

8675235355

GUIDE EMAIL-ID *


ramyasakthi05@gmail.com

TITLE OF THE PROJECT *

COMPUTERIZED PROCESS OF PROFICIENT CAMPAIGN FOR STUDENTS IN COLLEGE
MANAGEMENT SYSTEM

STREAM *

Science


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Engineering

Engineering Stream

Project to be considered under the Sector: CSE-CSE/IT/Computer Application/Software; ECV-Civil Engineering; EME-Mechanical/ Mechatronics/ Production/automobile etc/; EEE-EEE/ECE/EIE/ICE; CHE-Chemical Engineering

	CSE	ECV	EME	EEE	CHE
CODE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Institution Details

INSTITUTION CATEGORY *

	GOVT.	SELF FINANCE	GOVT. AIDED	UNIVERSITY
STATUS	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

STUDENT(S) NAME (Maximum 4 students) *


V.NIVEDHA, V.HARINI, B.PRIYADHARSHINI, V.KAVYADEVI


STUDENT STUDYING *

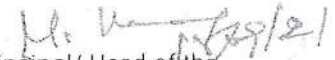
	U.G ENGINEERING	P.G PROFESSIONAL COURSE	P.G SCIENCE
COURSE	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

[Signature]
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K S R KALVI NAGAR,
TIRUCHENGODE-637 213, CERTIFICATE
NAMAKKAL Dt. TAMIL NADU.

This is to certify that Mr./Miss. V. NIVEDHA, V. HARINI, V. KAVYA DEVI, B. PRIYADHARSHINI is a bonafide final year student of P.G. ~~Science~~ / U.G. Engineering / P.G. professional courses of our college and it is also certified that two copies of utilization certificate and final report along with seminar paper will be sent to the Council after completion of the project by the end of April 2022.


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Institution

Signature of

HOD


Principal/ Head of the


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NAMAKKAL DI, TAMIL NADU.

Note:

N.B.: 2 copies of the proposals are to be submitted through proper channel to The Member Secretary, TNSCST, DOTE Campus, Chennai - 600 025 on or before 17 September 2021, 5.00PM

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Number of workshops/seminars conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the academic year 2021-22

S.No.	Name of the workshop/ seminar	Date From – To
1	Session on How to make Patent on an Idea?	08.02.2022
2	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	28.03.2022
3	Session on Managing Innovation and Intellectual Property Rights Formulate	15.04.2022
4	Session on How to Patent an Innovation	21.06.2022
5	Workshop on “Entrepreneurship and Innovation as Career Opportunity”	12.11.2021
6	My Story - Motivational Session by Successful Innovators	13.11.2021
7	My Story - Motivational Session by Successful Entrepreneur/Startup founder.	19.11.2021
8	Session on Problem Solving and Ideation Workshop	17.11.2021
9	Pitching Event for Ideas Scouted & linkage with Innovation Ambassadors for mentorship support.	24.01.2022
10	Developing Online Repository of Ideas Developed and Wayforward plan	13.06.2022
11	Session on What & How do Entrepreneurs Think?	16.11.2021
12	Session on How to make a Problem Survey for setting up a Startup?	30.11.2021
13	Session on need for Entrepreneurs to our society	23.11.2021
14	Workshop on Design Thinking, Critical thinking and Innovation Design	03.01.2022
15	Workshop on Entrepreneurship, Skill, Attitude and Behaviour Development	07.01.2022
16	Session on Achieving Problem -Solution Fit & Product - Market Fit	10.01.2022
17	Session on Converting an Innovative Idea into a Concept	05.02.2022
18	Session on Validating a developed Concept for a successful startup	12.02.2022
19	Session/ Workshop on Business Model Canvas (BMC)	16.03.2022
20	Session on “How to plan for Start-up and legal & Ethical Steps”	24.03.2022
21	Session on Qualities of a Successful Entrepreneurs	12.04.2022
22	How to Get Findings For Startup	19.04.2022
23	Session on Process development for Entrepreneurship	22.04.2022
24	Session on Innovation/Prototype Validation - Converting Innovation into a Startup (or) Session on Achieving "Value Proposition Fit" & "Business Fit"	05.06.2022

25	Session on Accelerators/Incubation - Opportunities for Students & Faculties – Early Stage Entrepreneurs	07.06.2022
26	Session on “Lean Start-up & Minimum Viable Product/Business”- Boot Camp(or) Mentoring Session	04.06.2022
27	Session/ Panel discussion with innovation and Startup Ecosystem Enablers from the region/state/national level	11.06.2022
28	Session on Ecosystem and Startup Collaborations	20.06.2022
29	Session of Workshop on Intellectual Property Rights	07.06.2022
30	Expert Talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & Commercialisation of Lab Technologies Tech-Transfer	28.01.2022
31	Managing Innovation and Intellectual Property Rights Formulate	15.04.2022
32	Webinar on Intellectual Property Rights, Patent and Design Process	18.03.2022
33	Procedure for filing and grant patents in agricultural sector	27.10.2021
34	Intellectual Property Rights	5.10.2021
35	Importance of Innovation for Technological Upgradation in Present Scenario	18.04.2022
36	Promotion of IPR with Ethics in Business	20.11.2021
37	Intellectual Property Rights	26.11.2021
38	Convert your Design, Innovation & Entrepreneurship thinking into Patents	18.03.2022



**MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
SESSION ON HOW TO MAKE PATENT ON AN IDEA?**

OVERVIEW

Objective:

Patent law is to promote the progress of Science and useful arts

Benefit in terms of learning/Skill/Knowledge obtained:

A patent gives you the right to stop others from copying, manufacturing, selling or importing your invention without your permission.

Academic Year:

2021-22

Program driven by:

Self-driven Activity

Month:

February

Program /Activity Name:

Session on How to make Patent on an Idea?

Program Type:

Motivation Speech

Other:

null

Program Theme:

IPR

Other:

NA

Date & Duration (Days):

02/08/2022-02/08/2022-0

External Participants, If any:

null

Student Participants:

Faculty Participants:


PRINCIPAL.

126

39

Expenditure Amount, If any:

Remark:

null

null

ATTACHMENTS

Video:

null

Photograph1:



Photograph2:

/uploads/institutes/monthlyReport/Photograph2/8542-IC201912199.jpeg

Session plan, If any:

<https://api.mic.gov.in/uploads/institutes/monthlyReport/report/4048-IC201912199.pdf>

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TIRUCHENGOORE-607 215,
TAMIL NADU.



MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
WORKSHOP ON INTELLECTUAL PROPERTY RIGHTS (IPRS) AND IP MANAGEMENT
FOR START UP

OVERVIEW

Objective:

Motivated students and faculty towards the IPR and IP Management for Start up

Benefit in terms of learning/Skill/Knowledge obtained:

Students gained knowledge towards the IPR and IP Management for Start up

Academic Year:

2021-22

Program driven by:

IIC Calendar Activity

Month:

November

Program /Activity Name:

Workshop on Intellectual Property Rights (IPRs) and IP management for start up

Program Type:

Workshop

Other:

null

Program Theme:

IPR

Other:


NA

Date & Duration (Days):

03/28/2022-03/28/2022-0

External Participants, If any:

null


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K S R KALVINAGAR,
TIRUCHENGODE 613 015,
NAMAKKAL Dt. TAMIL NADU.

Student Participants:

113

Faculty Participants:

30

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:




Photograph2:

NA

Session plan, If any:

<https://api.mic.gov.in/uploads/institutes/monthlyReport/report/7991-IC201912199.pdf>

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(GOVERNMENT OF INDIA)



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiatives)

MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
MANAGING INNOVATION AND INTELLECTUAL PROPERTY RIGHTS FORMULATE

OVERVIEW

Objective:

Explain the purpose and characteristics of intellectual property law

Benefit in terms of learning/Skill/Knowledge obtained:

IP rights provide protection for our innovation ideas. They have understood the awareness about the patterns and their important.

Academic Year:

2021-22

Program driven by:

Self-driven Activity

Month:

April

Program /Activity Name:

Managing Innovation and Intellectual Property Rights Formulate

Program Type:

Motivation Speech

Other:

null

Program Theme:

IPR

Other:

NA

Date & Duration (Days):

04/15/2022-04/15/2022-0

External Participants, If any:

null


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K S R KALVI NAGAR,
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NAMAKKAL DL TAMIL NADU.

Student Participants:

100

Faculty Participants:

12

Expenditure Amount, If any:

0

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



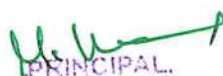
Photograph2:

/uploads/institutes/monthlyReport/Photograph2/9981-IC201912199.jpeg

Session plan, If any:

<https://api.mic.gov.in/uploads/institutes/monthlyReport/report/2335-IC201912199.pdf>

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MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
SESSION ON HOW TO PATENT AN INNOVATION

OVERVIEW

Objective:

Promote innovation via the reward granted to the inventor, Promote technology diffusion via publication

Benefit in terms of learning/Skill/Knowledge obtained:

When a new technology comes onto the market, society as a whole stands to benefit – both directly, because it may enable us to do something.

Academic Year:

2021-22

Program driven by:

Self-driven Activity

Month:

June

Program /Activity Name:

Session on How to Patent an Innovation

Program Type:

Seminar/Case Studies

Other:

null

Program Theme:

R&D and Innovation

Other:

NA

Date & Duration (Days):


06/21/2022-06/21/2022-0

External Participants, If any:

null

Student Participants:

Faculty Participants:


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TIRUCHENGODE-617 215,
NAMAKKAL

86

39

Expenditure Amount, If any:

Remark:

null

null

ATTACHMENTS

Video:

null

Photograph1:



Photograph2:


/uploads/institutes/monthlyReport/Photograph2/7304-IC201912199.jpeg

Session plan, If any:

<https://api.mic.gov.in/uploads/institutes/monthlyReport/report/3291-IC201912199.pdf>

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INSTITUTION'S INNOVATION COUNCIL**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
WORKSHOP ON "ENTREPRENEURSHIP AND INNOVATION AS CAREER
OPPORTUNITY"**

OVERVIEW

Objective:

students acquire necessary knowledge and skills required for organizing & carrying out entrepreneurial

Benefit in terms of learning/Skill/Knowledge obtained:

Entrepreneurship and Innovation minors will be able to sell themselves and their ideas.

Academic Year:

2021-22

Program driven by:

IIC Calendar Activity

Month:

November

Program /Activity Name:

Workshop on "Entrepreneurship and Innovation as Career Opportunity"

Program Type:

Workshop

Other:

null

Program Theme:

Entrepreneurship

Other:

NA

Date & Duration (Days):

11/12/2021-11/12/2021-0

External Participants, If any:

null

[Signature]
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K S R KALVI NAGAR,
TIRUCHENGODE-637 315,
NAMAKKAL DL, TAMIL NADU.

Student Participants:

109

Faculty Participants:

39

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



Photograph2:


/uploads/institutes/monthlyReport/Photograph2/9494-IC201912199.jpeg

Session plan, If any:

<https://api.mic.gov.in/uploads/institutes/monthlyReport/report/7860-IC201912199.pdf>

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TIRUCHENGODE-637 215,
NAMAKKAL DI, TAMIL NADU.



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(GOVERNMENT OF INDIA)



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiatives)

MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
MY STORY - MOTIVATIONAL SESSION BY SUCCESSFUL INNOVATORS.

OVERVIEW

Objective:

view of an entrepreneur started his business start-ups, what all the difficulties faced during time.

Benefit in terms of learning/Skill/Knowledge obtained:

Understand the nature of entrepreneurship,
Understand the function of entrepreneur in the successful, commercial application of innovations & business

Academic Year:

2021-22

Program driven by:

IIC Calendar Activity

Month:

November

Program /Activity Name:

My Story - Motivational Session by Successful Innovators.

Program Type:

Motivation Speech

Other:

null

Program Theme:

Startup

Other:

NA

Date & Duration (Days):

11/13/2021-11/13/2021-0

External Participants, If any:

null


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K S R KALVI NAGAR,
TIRUCHENGODE-637 215,
NAMAKKAL DISTRICT, TAMIL NADU.

Student Participants:

74

Faculty Participants:

25

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



Photograph2:


/uploads/institutes/monthlyReport/Photograph2/1432-IC201912199.jpeg

Session plan, If any:

<https://api.mic.gov.in/uploads/institutes/monthlyReport/report/2680-IC201912199.pdf>

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**MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
MY STORY - MOTIVATIONAL SESSION BY SUCCESSFUL ENTREPRENEUR/START-UP
FOUNDER.**

OVERVIEW

Objective:	Benefit in terms of learning/Skill/Knowledge obtained:
To build a vibrant startup ecosystem, by establishing a network between institution & Industries	To build a strong ecosystem that is conducive for the growth of startups.
Academic Year:	Program driven by:
2021-22	IIC Calendar Activity
Month:	Program /Activity Name:
November	My Story - Motivational Session by Successful Entrepreneur/Start-up founder.
Program Type:	Other:
Motivation Speech	NA
Program Theme:	Other:
Startup	NA
Date & Duration (Days):	External Participants, If any:
11/19/2021-11/19/2021-0	null


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Student Participants:

162

Faculty Participants:

37

Expenditure Amount, If any:

null

Remark:

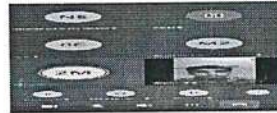
NA

ATTACHMENTS

Video:

NA

Photograph1:




Photograph2:

/uploads/institutes/monthlyReport/Photograph2/7837-IC201912199.jpeg

Session plan, If any:

<https://api.mic.gov.in/uploads/institutes/monthlyReport/report/6050-IC201912199.pdf>

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**MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL**

**KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
SESSION ON PROBLEM SOLVING AND IDEATION WORKSHOP**

OVERVIEW

Objective:	Benefit in terms of learning/Skill/Knowledge obtained:
To understand the different phases of ideation	Participants clearly understood the process of concept designing and different things to be followed by an innovator which improves the creativity
Academic Year:	Program driven by:
2021-22	IIC Calendar Activity
Month:	Program /Activity Name:
November	Session on Problem Solving and Ideation Workshop
Program Type:	Other:
Workshop	null
Program Theme:	Other:
Design Thinking & Critical Thinking	NA
Date & Duration (Days):	External Participants, If any:
11/17/2021-11/17/2021-0	null


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Student Participants:

139

Faculty Participants:

39

Expenditure Amount, If any:

null

Remark:

null

ATTACHMENTS

Video:

null

Photograph1:



Photograph2:

/uploads/institutes/monthlyReport/Photograph2/4998-IC201912199.png

Session plan, If any:

<https://api.mic.gov.in/uploads/institutes/monthlyReport/report/3970-IC201912199.pdf>

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MOE'S INNOVATION CELL
INSTITUTION'S INNOVATION COUNCIL

KSR INSTITUTE FOR ENGINEERING AND TECHNOLOGY
PITCHING EVENT FOR POCS DEVELOPED & LINKAGE WITH INNOVATION
AMBASSADORS FOR MENTORSHIP SUPPORT.

OVERVIEW

Objective:	Benefit in terms of learning/Skill/Knowledge obtained:
A pitch competition is a contest where entrepreneurs present their business concept to a panel	A good pitching event will allow founders to spark the curiosity of many investors so that they will want to engage with him further on a one-on-one b
Academic Year:	Program driven by:
2021-22	IIC Calendar Activity
Month:	Program /Activity Name:
November	Pitching Event for PoCs developed & linkage with Innovation Ambassadors for mentorship support.
Program Type:	Other:
Workshop	null
Program Theme:	Other:
Design Thinking & Critical Thinking	NA
Date & Duration (Days):	External Participants, If any:

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01/24/2022-01/24/2022-0

null

Student Participants:

Faculty Participants:

67

28

Expenditure Amount, If any:

Remark:

null

null

ATTACHMENTS

Video:

null

Photograph1:




Photograph2:

/uploads/institutes/monthlyReport/Photograph2/9397-IC201912199.jpeg

Session plan, If any:

<https://api.mic.gov.in/uploads/institutes/monthlyReport/report/7860-IC201912199.pdf>

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