SVCE
Sri Venkateswara College of Engineering

SVCE INNOVATES 2022
Students' Research Day

Circular	**3/2/2022**

The best innovations of 2022, by the students of SVCE, would be identified by conducting a contest. This is being organized as a college wide event for the seventh time with the following objectives:

To nurture an interest in research and to provide an opportunity to the students to exhibit their creative skills

To inculcate the spirit of healthy competition and to encourage inter-disciplinary innovations

This is intended for undergraduate and postgraduate engineering students of all the departments in our campus.

Competition details

Abstract should be submitted in a maximum of 500 words and the format for the abstract can be downloaded from the website.

Important Dates

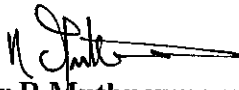**Submission of an abstract of the innovative ideas**   : 5.4.2022

Final event will be held on SVCE Students' Research Day : 8.4.2022 (Friday)

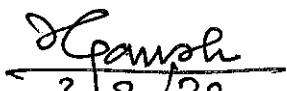
Team can consist of 2-3 students. Interdisciplinary teams are encouraged. Each team must have a faculty mentor. All participants will get participation certificates. Best innovative ideas in each branch will get prize money and certificate of Appreciation

Certificates would also be given to the faculty mentors of the winning teams.
A panel of judges from the industry and academia will evaluate the innovative ideas.

All the participants will have to demonstrate the ideas using poster/Models/software protypes.

3|2|2022
Dr R Muthucumaraswamy Dean (Research)

Dr. R.Muthucumaraswamy, Ph.D.,
Dean (Research), Professor & Head
Department of Applied Mathematics
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur-602117.

3|2/22
Principal

Prof.S. Ganesh Vaidyanathan, Ph.D
Principal
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur Tk-602 117,
Tamilnadu State, India.
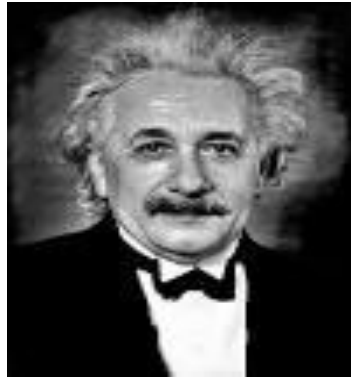
Annexure- I

EVENT: SVCE INNOVATES 2022

Students are requested to submit their abstract to the respective department research coordinator through e-mail and also submit the hard copy of the abstract and registration form

S.No	Department	Research Coordinator(s)	e-mail Id
1.	AUT	Dr V Ganesh	vinaganesh@svce.ac.in
2.	BIO	Dr G Karthigadevi	karthigadevig@svce.ac.in
3.	CIV	Dr P Venkateswara Rao	pvenkat@svce.ac.in
4.	CHE	Dr R Palani	rpalani@svce.ac.in
5.	CSE	Dr N Rajeswari	raji@svce.ac.in
6.	ECE	Dr S R Malathi Ms S M Mehzabeen	malathiraj@svce.ac.in mehzabeen@svce.ac.in
7.	EEE	Dr R Karthikeyan Mr S Purushothaman	rkar@svce.ac.in purush@svce.ac.in
8.	INT	Dr C Yaashuwanth Mr K Suresh	yaashuwanth@svce.ac.in ksuresh@svce.ac.in
9.	MEC	Dr M Gajendran Dr S Illayavel	mgaja@svce.ac.in ilaiyavel@svce.ac.in
10.	MAR	Mr M Anandan	anand@svce.ac.in

Autonomous Institution- Affiliated to Anna University

Pennalur, Sriperumbudur - 602 117

*Albert **Einstein***

The Management, Staff and Students

Cordially invite you for the

INAUGURAL FUNCTION OF

SVCE INNOVATES 2022- STUDENTS' RESEARCH DAY

Dr S P SUBRAMANIYAN

Deputy Controller of Patents and Designs
IPR Building, GST Road, Guindy, Chennai 25.

Dr K R SANTHA

Vice Principal, Professor and Head, Department of Electrical and Electronics Engg.
Sri Venkateswara College of Engineering
Will preside over the function

Venue : Seminar Hall, Dr AC Muthiah Central Library

Date and Time : 8th April 2022, 10.00 AM

ALL ARE WELCOME

Time	Program
10.00 am – 10.05 am	**Prayer song**
10.05 am – 10.10 am	**Welcome address by**
	Prof. R MUTHUCUMARASWAMY
	Dean (Research)
10.10 am – 10.25 am	**Address by**
	Dr K R SANTHA
	Vice Principal, Professor and Head
	Dept. of Electrical and Electronics Engg.
	Sri Venkateswara College of Engineering
10.25 am – 10.30 am	**Introduction of Chief guest by**
	Miss. I Jasi Grace
	President, Students' Council, SVCE
10.30 am – 11.00 am	**Inaugural address by**
	Dr. S P SUBRAMANIYAN
	Deputy Controller of Patents and Designs
	IPR Building, Guindy, Chennai-25
11.00 am – 11.15 am	**Tea Break followed by**
	Demonstrations and Presentations of
	Projects by Students in Multipurpose Hall
	AUT/CIV/CHE/CSE/EEE/MEC/MAR

BIO – Department Ground and first floor

INT - PG Lab, Ground Floor

ECE – Applied Electronics Lab, IMS Block, II Floor

Students can display their projects/models/poster starting from 9.00 am to 2.00 pm

Department of Electronics and Communication Engineering

S.No. /Team ID	Year	Name of the Student	Title	Name of the Mentor
1.	ECE IV	Janani. A Keerthana. G Jerusha. G	Drowsiness Detection using Open CV	Mr. P. Muthukumaran Assistant Professor, ECE
2.	ECE III	S.Iyswarya S.Nivetha sree R.Pritha	Fuel Free Reality	Ms. L. Anju Assistant Professor, ECE
3.	ECE III	Manoj D Pranav S Karthik Rajagopal	MASS – Monitoring and Assistance System for Sewer Safety	Ms. L. Anju Assistant Professor, ECE
4.	MECH III ECE III	Bhavanesh. B Pavithra. S	Glowing LED bulb with Laser Light Source	Ms. K. Srividhya, Assistant Professor, ECE
5.	ECE II	Hariharan. G Ganeshan. H Ambrish. Y	Smart Irrigation System	Rajeswari. R Assistant Professor, ECE
6.	ECE II	Nithin. S Raghu Yogesh Prabhumanoj. S. J	Domestic Irrigation System	Sathish. N Assistant Professor, ECE
7.	ECE II	Karthikeyan. V Jeevanesh. K. L Kaviarasu. C	Obstacle Avoidance Robot	Ms. C. Gomatheeswari Preethika, Assistant Professor, ECE
8.	ECE II	Nithish P Mithun Nitheesh Rogan R	Machine Learning Based Chatbot for College Administration	Ms. S. M. Mehzabeen Assistant Professor, ECE
9.	ECE II	Vijay. K Sakthiprasaad. L Sarveshwar. V	Arduino Based Smart Home Automation System	Ms. S. M. Mehzabeen Assistant Professor, ECE
10.	ECE II	Vishnu Priya. V. T Supraja. R Sahana. B	Defense Frequency Detector	Dr. S. R. Malathi Associate Professor, ECE
11.	ECE III	Pon Sai Raam V Ragul T Rajesh Kumar R	Identification of Brain Tumor and locating the area of infection	Dr. Veluchamy. S Assistant Professor, ECE
12.	ECE III	Sribalajy. N. S Vignesh. V. M Harish	User Computer Interface	Ms. T. J. Jeyaprabha Associate Professor, ECE
13.	ECE III	Gnaneshwaran. S	Low-cost Smart Agriculture system	Dr. S. Vijayanand Assistant Professor, ECE

		Naresh. S Gokul. R		
14.	ECE III	Harihara Subramanian. B Jagan. V Santhosh Kumar. P	Ventilator using Arduino with Blood Oxygen Sensor for Covid Patients	Dr. Veluchamy. S Assistant Professor, ECE
15.	ECE II	Sanjay Lokesh A M Srinivasan Aiswarya Ssrivani M Sivadharini S	Automated Exhaust fan	Ms.M.Manimegalai Assistant Professor, ECE
16.	ECE II	Rajeshvar M Swamy Shashidar G Sreevatsav E	Alcohol Detection and Vehicle Control System	Ms. S. M. Mehzabeen Assistant Professor, ECE
17.	ECE III	Siddique Afraaz. N Sivasubramanian R Suraj S K, Ugendran R	Blockchain Voting System	Ms. T. J. Jeyaprabha Associate Professor, ECE
18.	ECE II	R.Jeevanandh Mrdulla V Naarayan, Nivetha.P	Contactless Tachometer Using 8051 Micro-Controller	Ms. S. M. Mehzabeen Assistant Professor, ECE
19.	ECE III	Prithiviraj V S Snehalatha M Shivaganapathy R	Interactive Pet Bot	Ms. K.S.Subhashini Assistant Professor, ECE
20.	ECE III	Durga G Dhivya Bharathi S Haritha G D	IoT Based Irrigation, Monitoring and Controlling System	Ms. B.Sarala Assistant Professor, ECE
21.	ECE II	Karthikeyan V Jeevanesh K L Kaviarasu C	Obstacle Avoidance Robot	C Gomatheeswari Preethika, Assistant Professor, ECE
22.	ECE II	Prasanna A, Navin kumar K, Kishore G	Simple and Smart Robotic Arm.	Ms. S. M. Mehzabeen Assistant Professor, ECE

23.	ECE-III	Saalini.D Vishnupriya.G Uma Maheshwari.D Subhashree.B	IOT based Low-Cost Water Network Monitoring System	Dr. S. R. Malathi Associate Professor, ECE
24.	ECE-III	Nissanth. N. A Kenwin Patrick. A Kishore Kumar. T	Mobile/Web application integrated with ML Data analysis using R to calculate distance – fare in various fields	Ms. K. Srividhya, Assistant Professor, ECE
25.	ECE-III	Prasad. E Mukesh Kumar Koushik Srinivasan	Chemical Segregation by Feature Extraction using Logistic Regression	Ms. K. Srividhya, Assistant Professor, ECE

Total number of abstracts : 25

Total number of Students : 76

Total number of mentors : 15

Dr.S.R.Malathi
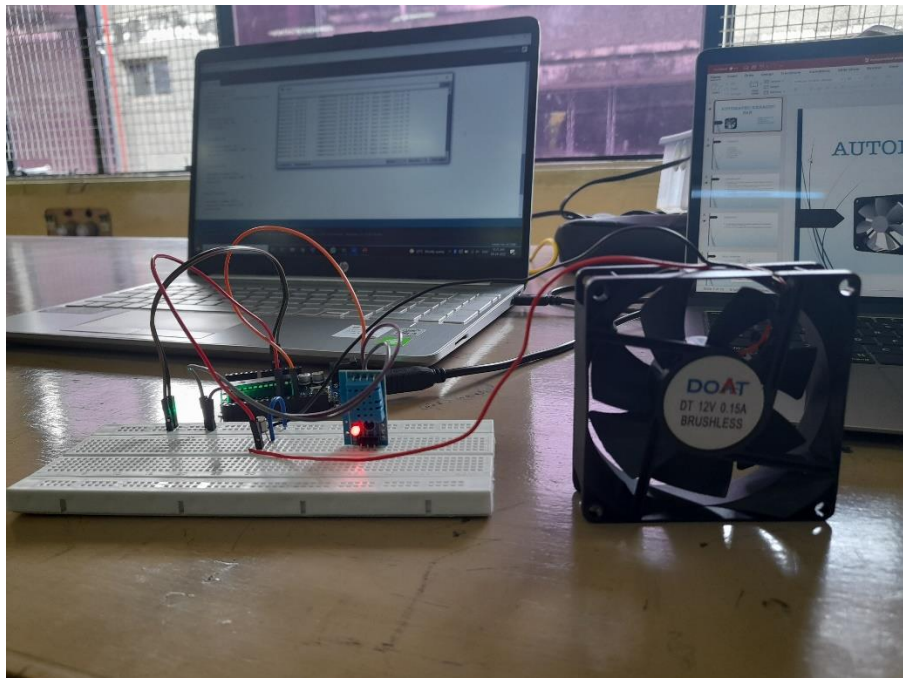
Dr.S.Muthukumar
HOD-EC

Students' Research Day (SVCE INNOVATES 2022)

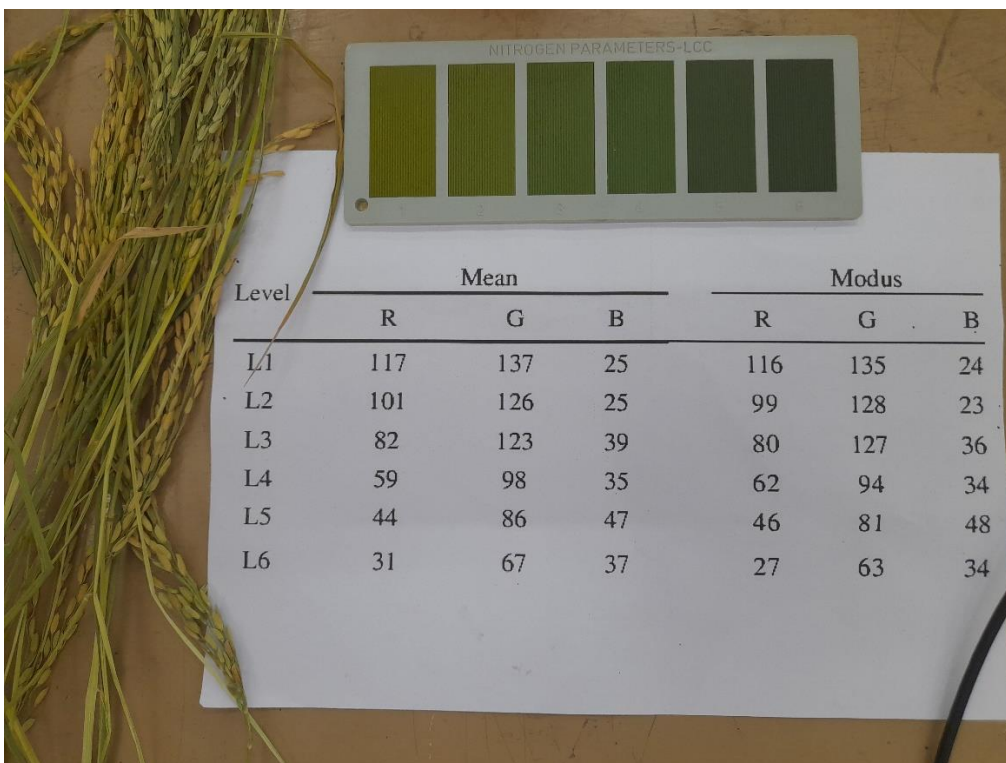**Department of ECE REPORT**

Date: 12/4/2022

'Students Research Day 2022' is an annual event, was held on the 8th April 2022 (Friday) in the Seminar Hall, Dr AC Muthiah Central Library 10.00 AM. The event held under the name "SVCE INNOVATES 2022", seeks to channelize the innovative ideas of the students and their faculty mentors in to viable projects which would enhance the research output of the college and the knowledge base of the students and the mentors.

In our department we received around 25 abstracts involving all our UG second, third and final year students with major contributions from around 75 students and 15 faculty mentors. Students were allowed to group themselvesin to batches of 2 to 4 students per batch and were to be mentored by a faculty member.

Our students showcased their talents by exhibiting innovative ideas in the major fields of Electronics and communication such as Embedded systems, IoT, computer vision and AI & Robotics.The students presented their innovative works in the form of Power point

presentation,poster presentation,Simulation and model presentation. Dr.N.Kumaratharan,Professor/ECE department acted as Judge for the panel and evaluated the students performance based on the presentation skill, innovative idea of the project model.

Level	Mean			Modus		
	R	G	B	R	G	B
L1	117	137	25	116	135	24
L2	101	126	25	99	128	23
L3	82	123	39	80	127	36
L4	59	98	35	62	94	34
L5	44	86	47	46	81	48
L6	31	67	37	27	63	34

Prize winners List

S.NO	Name of the students	Project Title	Name of the mentor	Prize details
1.	Sribalajy. N. S Vignesh. V. M Harish	User Computer Interface	Ms. T. J. Jeyaprabha Associate Professor, ECE	**First** **Rs. 600/-**
2.	Nithish P Mithun Nitheesh Rogan R	Machine Learning Based Chatbot for College Administration	Ms. S. M. Mehzabeen Assistant Professor	**Second** **Rs. 400/-**
3.	Hariharan. G Ganeshan. H Ambrish. Y	Smart Irrigation System	Rajeswari. R Assistant Professor	**Third** **Rs.200/-**

Dr.S.R.Malathi

Dr.S.Muthukumar
HOD-EC

SVCE

Sri Venkateswara College of Engineering

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

Autonomous Institution – Affiliated to Anna University
Pennalur, Sriperumbudur-602117

SVCE INNOVATES 2022

STUDENTS' RESEARCH DAY
8th April 2022

CERTIFICATE OF APPRECIATION

This is to certify that Mr./Ms. _Mithun Nitheesh Rogan. R_

Department of _Electronics & Communication Engineering_

has presented a project titled _Machine Learning based Chatbot for College Administration_

and secured the I / II / III prize in the Students' Research Day 2022.

DEAN (RESEARCH)
Dr.R.Muthucumaraswamy

PRINCIPAL
Dr.S. Ganesh Vaidyanathan