



Sri Venkateswara
College of
Engineering

SVCE INNOVATES 2023

Students' Research Day

Circular

SVCE's **Research Day** is a yearly event designed to highlight the breadth of research and scholarly activities that undergraduate and Post-graduate students have accomplished during their studies. It provides an opportunity for staff and students to meet and share their experiences, ongoing research work and ideas, to promote discussions and strengthen collaboration across the departments.

The event comprises oral presentations of their research concepts, poster presentations, and research awards.

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

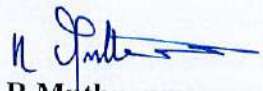
Submission of an abstract of the innovative ideas : 23.3.2023 (Thursday)

Final event will be held on SVCE students Research Day :30.3.2023 (Thursday)

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 prototypes.


13/3/2023
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.


17/3/23
Principal
Prof. S. Ganesh Vaidyanathan, Ph.D.
Principal
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur Tk-602 117,
Tamilnadu State, India.



Annexure- II

EVENT: SVCE INNOVATES 2023

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 Revathi	revathi@svce.ac.in
6.	ECE	Dr R Gayathri Ms S M Mehzabeen	rgayathri@svce.ac.in mehzabeen@svce.ac.in
7.	EEE	Dr T Annamalai	annamalai@svce.ac.in
8.	INT	Dr C Yaashuwanth Mr K Suresh	yaashuwanth@svce.ac.in ksuresh@svce.ac.in
9.	MEC	Dr M Gajendran	mgaja@svce.ac.in
10.	MAR	Mr M Anandan	anand@svce.ac.in



SVCE INNOVATES 2023

STUDENTS' RESEARCH DAY

List of Participants

Annexure-I

Date : 28/3/2023

Department of Automobile Engineering

S.No /Batch	Name of the students (UG/PG)	Title	Name of the Mentor
1	N. Kalaranjan	Smart helmet detection system for improving rider safety	Dr. Ganesh V
2	J V Vigneshwaran Shri Krishnaa G Rohith R R Menon	Personalized speed governor system using RFID card	Dr. Ganesh V
3	R. Giridharan S P Solaiyappan M. Kishore Kumar	Enhancing vehicle performance by reducing air drag	Dr. Premnath

Total number of abstracts: 3

Total number of students: 7

Total number of mentors: 2

Department of Biotechnology

S.No/ Batch	Name of the students (UG/PG)	Title	Name of the Mentor
1	Abi Sherlin (PG)	Cosmeceutical perspective of Marine Polysaccharides skin aging applications	Dr. G. Karthigadevi
2	Deva S (PG)	Applications of Artificial Intelligence in toxicity prediction	Dr. S. PandiPrabha
3	Bharadwaj R(PG)	Bael Fruit Juice with Nano-dispersed Beta-carotene	Dr. K. Vasantharaj
4	Jhishnuraj K, Abhinav R A	Enhancing Bioethanol Production from Marine Macroalgal Biomass	Dr. K. Vasantharaj
5	Madhumitha K	Analysis of Antimicrobial Resistant Genes	Dr. K. Divakar

	Mathumitha Rao	present in metagenomes of Waterbodies	
6	Dharshini N S, Janani Harikrishnan,	Wheat tofu as paneer substitutes: The vegan way to healthy lifestyle	Dr. G. Karthigadevi
7	Jayaraman R, nithishwaran, Srihariharan AS	Nutraceutical gummies: An oral supplementation of Vitamin D	Dr. G. Karthigadevi
8	Ananya RC, Lavanya J	Perspective of Medicinal plant <i>Calotropis gigantea</i> in wound healing applications	Dr. G. Karthigadevi
9	Akshara B S, Kaaviya V, Nivashini Vindhya	Bioremediation of Dairy Effluent using Phycopods: A novel approach	Ms. N. Kanagam
10	Aditya Krishnan S, Arvind Srinivasan A	Enhancing Fruit Ripening with Jasmonic Acid: Effects on Ethylene Production and Other Ripening-Related Processes	Mr. Aswin Jenoj G
11	Aadhan G A, Gurucharan J K	Development of Meat Alternatives using 3D-Printing Technology	Dr. K. Vasantharaj
12	Jeya Prasath R, Rajavarshini R, Rupika Rajendran	Beta-carotene Enriched Functional Ice Cream	Dr. K. Vasantharaj
13	Maseera Ahmed M, Thulasi Kalaivani B	Edible Food Coatings: A Promising Alternative for Extending the Shelf Life of Fruits and Vegetables	Mr. Aswin Jenoj G
14	Gaayathri M, Sulakshana B	Testing the Effects of Poppy Seeds on Human Health for the Treatment of Cancer	Mr. Aswin Jenoj G
15	Sivagurunathan R, Tharangini S	Water purification using 3D printing technology	Mr. S. Naga Vignesh
16	Bavishya J R, Anushri K	Nutrient bioextraction using mariculture of algal species to improve quality of water in the coastal area	Dr. S. Pandi Prabha
17	Kevin M	All in One Cookie	Dr. E. Nakkeeran
18	Keerthana J, Hemapriya SK	Bioprocessing of municipal solid waste using handy bio-composter at your doorstep	Ms. N. Kanagam
19	Priyanka Raj R, Nandita S	Detection of plant pathogen using fluorescent probe with AI and ML	Dr. K. Divakar
20	Sriram M, Girish	Novel Nanomachines for identification of cancer biomarkers	Dr. G. Karthigadevi
21	Abinaya T, Arun Pravin C V	Machine learning-based prediction of patient outcomes in neonatal cancer: a retrospective	Mr. Aswin Jenoj G

		study	
22	Nandakishor, Srihari Prasath, Srihari Krishna	Bio briquettes	Dr. K. Vasantharaj
23	Udayarajan Y, Karthikeyan M, Mohammed shadir VOA	Treatment of sewage waste using Scrap tyre based powdered activated carbon	Dr. G. Karthigadevi
24	Jeeva Dhanushya S (PG)	Genomic and Nutritional Analysis of Fermented Coconut Milk	Dr. K. Divakar
25	Harini. S, Kamalavarshini. B	Computational binding studies of Withanolide A on mitochondrial targeting of HSP90 in Hepatocellular Carcinoma based on network pharmacology approach	Dr. P.K. Praveen Kumar
26	Anirudh J, Sharath R	Computational binding studies of Withaferin A on mitochondrial targeting of HSP90 in Hepatocellular Carcinoma : A Network Pharmacology Approach	Dr. P.K. Praveen Kumar
27	Bathmasree S	Formulation of green tea enriched with cassava leaf extract to prevent cardiovascular disease	Dr. E. Nakkeeran
28	Leema Rose Sebastian Manohari R	Hemp seed as an antioxidant source for the reduction of acrylamide content in foods	Dr. E. Nakkeeran
29	Anant S Maadhav Vishnupriya V	Barley malt enhanced cactus pear jam	Dr. E. Nakkeeran
30	Elambarithi M Prem Kumar G	Enhancing the shelf-life of bread from Starch retrogradation using cellulose nanocrystal	Dr. E. Nakkeeran
31	Haripriyaa A S Manaswini V	Vicilin: A promising Biopolymer for new Generation Scaffold	Dr. G. Karthigadevi

Total number of abstracts: 31

Total number of students: 61

Total number of mentors: 9

Department of Chemical Engineering

S.No/ Batch	Name of the students (UG/PG)	Title	Name of the Mentor
1	V. K. Vignesh, S. Umesh Anandh	Development of Reactive Electrochemical Membrane (REM) for Onsite Decentralized Wastewater Treatment	Dr. N. P. Kavitha Dr. G. Sudha
2	M. Shrima E. Thamaraikannan R. Swathy	A scalable metal-organic framework as a durable adsorbent for CO ₂ capture	Mr. M. Ananda Boopathy
3	Jow Raymund I Hindhuja B Dakshana K	Utilization, Isolation and Quantification of watermelon pulp for lycopene extraction	Dr Palani R
4	S. Vasudevan M. Rohith Narayan	Grey PET	Mr. S. Jai Ganesh
5	N. Prerna Unnathe	Superconductors: a futuristic outlook	Dr. Sudhakar K B
6	S. Muhammad Fazil Nithish . P	Utilisation,removal of the salt, Desalination of impure water	Mr. M. Ananda Boopathy
7	Ram Karthik Vasan H Navitha Sree V Selva Subash M	Investigating The Effect Of Alkali And Alkaline Earth Metals (Aaem) On The Pyrolysis Of Invasive Biomass Species	Dr. Philip Bernstein Saynik
8	Umesh V A S Praveen Kumar Nithya Priya S	Extraction Of Eucalyptus Oil From Eucalyptus Leaves	Dr. R Govindarasu
9	Navya R Jayasree Y G Jothika D	Recycling Of Solar Panels In India	Ms. Vijayalakshmi A C
10	Vedha Varshini A Siddharth Rajesh R Ramapriyan Avoodaiappan	Chemical Free Water Treatment System	Ms. Vijayalakshmi A C
11	Gayathri N (PG)	Valorisation of citrus waste into value-added product	Dr. R Govindarasu
12	K. Chezhan K. Ezhilarasan R. Maheswari	Real time production and investigation of Aspirin by the lab scale Vacuum Reactive Distillation apparatus	Dr. R Govindarasu
13	S Abbashek B Deepak P Kovarthan Yadav	Synthesis of curcumin base rGO-Cr ₂ O ₃ nanocomposite for enhanced wound healing and antibacterial activity.	Dr. S Anandhavelu Dr. S Ananda Babu
14	Abhinav Subrahmanyam Abdulla Irfan	Review on production of bioethanol for hydrogen generation	Dr. R Govindarasu

Total number of abstracts: 14

Total number of students: 34

Total number of mentors: 11

Department of Civil Engineering

S.No. /Team ID	Name of the Student	Title	Name of the Mentor
1.	Brithisha.S Akritha. S Kavinmalar. K, (IV year)	Assessment of Macro and Micro plastics in sands for Chennai beaches	Mr. G. Arun
2.	Keerthi Vaasan R Ramanan B B Rohit V, (IV year)	Partial replacement of coconut shell as coarse aggregate in concrete	Dr.P. Venkateswara Rao
3.	Amaravathy. U Dhanush Kannan. L Praveen Kumar D, (III year)	Origami Structure	Mrs. Ruby Freya. A
4.	Zaahir Sha. S Prem Kumar. S Chandravasan, P, (III year)	Hydroponic Technique for soil less farming	Mr. A. Vijay Vignesh
5.	Jayasurya. J Puviarasu. S Santhosh Kumar. N.M, (III year)	Reinforced Interlocking blocks as a wall/ slab panel	Mr. S. Hariswaran
6.	Velan. S Gopinath. K Kumaran. S (II year)	Kinetic Roads	Dr.R. Sathia
7.	Kishor. M Harish Kannen. R Aadeshwar. S, (II year)	Swing Bridge	Mrs. Ruby Freya. A
8.	Priyadarshini. R Raghavendra. B Lomina. R, (II year)	An Innovative approach to restrict the accident caused by long run vehicle with alert system	Mr. Hariswaran. S
9.	Abinaya. S Harini A. (II year)	Nanofiltration-based desalination.	Mr G Arun
10.	Yugheswaran R B Arivumani. S Ramanhujam.RJ(I year)	3D printed Furniture using waste plastics	Mr.A.vijay Vignesh

Total number of abstracts:10

Total number of students: 29

Total number of mentors: 7

Department of Computer Science and Engineering

S.No/ Batch	Name of the students (UG/PG)	Title	Name of the Mentor
1	Keerthirajan S , Mahalakshmi P , Minu S	Low Complexity GI Tract Segmentation to Improve Cancer Treatment.	Dr.P.Janarthanan
2.	Vinochan K.B , Naren Surya Sudhakar , Yuvaraj K	T&C Optimizer	Dr.P. Vinothiyalakshmi
3.	Harishri S	POTHOLE Detection RoadEasy	Ms.S.Rajalakshmi
4.	Naraen Balaji , Hari Prasath , Arumugam R	Blockchain -Based Voting System	Mr.R.Gnanavel
5.	Lakshitha M , Naveen D , Neha U	Agri-Connect	Mr.A.S. Vibith
6.	GirishKumar BM , Athish GB	To Use Wind energy to charge Electric Vehicle (EV) while they are in Motion	Mr.R.Gnanavel
7.	Rakhesh Bala , Nikhil Stehan Raj B , SriReghan DR	Live communication with Lifi and V2V Technology	Ms.S.YuvaPrabha
8.	Abirami B , Deepika G , Haripriya G.S	System to Detect Brand Piracy using Blockchain	Ms.J.Buvana
9.	Vigneshwar R , Nandhanan R , Venkata Naga Saiteja Bhumaraju	CYNEURA	Ms.E.Kiruthiga
10.	Chanakiya Kshatriya A , Bhavan Arimaan T , Gokul Kannapan	ION Propulsion Engine	Dr.Saravanan Subramani
11.	Mada Hemanth Reddy , Deepak K V , ARAVIND C	Text Sentiment Analysis Based on Long Short-Term Memory	Mr.P.Selvamani
12.	Ajay S Aravind T N C Aravind V	Student Assignment Plagiarism software	Ms.S.Rajalakshmi
13.	Praveen Kumar K , Revathi E , SankarLal T E	Predicting False Data Injection Using Predictive Analytics Model	Ms.S.Poorani
14.	Balaji B S , Shri Rajamanikandan V , Suriya S S ,	Online Proctoring using Eye gaze tracking and Head pose Estimation in Cloud Computing.	Ms.R.Iyswarya

15.	Neha Bhende , Pooja T , Lakshmi Sruthi K	Institutional Research Collaboration- Recommendation Portal	Ms.S.Senthamizh Selvi
16.	Murahari A H , Shreemirrah A K	Smart Waste Management System	Ms.R.K. Kapilavani
17.	Shalini D , Sangeetha V , Shafiya Parveen S	College Bus Tracking System	Dr.P.Vinothiyalakshmi
18.	Pratheek M , Kabilan M , Mythreye S	Towards a Health Body using a Smart Refrigerator	Ms.R.Gayathri
19.	Vignesh M , Shravan V , Srihari V	NaviGo	Dr.P.Vinothiyalakshmi
20.	Jeevasree M , Kavitha R, Madhumathi V	The Next Frontier in Drone Technology:The Synergy of AI,IOT and Drone Technology for Revolutionizing Automation.	Ms.Ajoe Sweetlin Jeena
21.	Kolla Mohan Rao , Lokesh T , Kishan M	SVCE BOT	Dr.R.Anitha
22.	Dinesh , Sredesh , Sreesha	Reverse Shells with Netcat- Usages,Alternatives and Attack Prevention/Detection	Ms.R.Poorni
23.	Raaga Priya J.K , Sahana S , Fathima Afra S	College TRANSTRACK-A Real Time Solution	Ms. S.Janani
24.	Kiran M.S , Mohammed Ghayaz Z , Abhinav M	Fund Trail Analysis Tool(Financial Statement various formats - pdf,csv,etc.,)	Ms.G.JanakaSudha
25.	Muralidharan S , Mohammed Kaleemullah A.R ,	IoT based fire indication system in farm land	Dr.N.R.Sheela
26.	Arunachala Mani Bavan K , Danush S , Hakash MP	Confidentiality of identity of harassed Womens	Dr.P. Vinothiyalakshmi,
27	Ashika V (IV CSE) Keerthana Sri S (IV CSE)	Enhancing Data Security in Cloud Storage Using Decentralized Block Chain	Dr. N. Revathi
28.	Praveen Kumar K (IV CSE), Revathi E (IV CSE) , SankarLal T E (IV CSE)	Predicting False Data Injection Using Predictive Analytics Model	Ms S Poorani

29.	Rakhesh Bala (IV CSE) , Nikhil Stehan Raj B (IV CSE) , Sanjay S S (IV CSE)	Live communication with Lifi and V2V Technology	Ms.S.Yuva Prabha
30.	Jeffrey Joan (IV CSE) Karan Raj P (IV CSE) Lakshman G (IV CSE)	Parkinson's Disease Image Generation using Generative Adversarial Networks and Classification using Convolutional Neural Networks	Dr.P.Janarthanan

Total number of abstracts: 30

Total number of students: 84

Total number of mentors: 24

Department of Electrical and Electronics Engineering

S.No	Name of the students (UG)	Title	Name of the Mentor
1	Manush K R Madhan raaj P Mohana krishnan K	Smart POTHOLE Reporting System	DR.R.J. Venkatesh
2	Karan S Karthik T Nimal chakravarthy P B	Analysis of auto transformer and online monitoring	Mr Bharadwaj.S
3	Mohammed Nowful A Mmanochandar C Manoj M	Voice controlled wheelchair for handicapped people	DR. C.Venkatesan
4	Upillikannan S B Rohit C Sahitya A	Real-time hazard detection and alert system using Internet of Things (IoT) and Artificial Intelligence.	Ms. Janakasudha G
5	Augustin A Mohamed kaif D Santossh V	Smart EV-charging system	Ms. Arulmozhi S
6	Giriraaj A V Infant Vimal M Dharun Prasanth G Barath Raj R	Automatic car parking system	Ms. Suganthi K
7	Ragul K K Roshanram K Vasanth A	Performance enhancement of solar panel	Dr. Annamalai T
8	Abinaya B Shriman B	Zero Energy ready home using Electrical Vehicle	Mr.Thamizmani S
9	Deebika J B Girija D M	Smart congestion management in power systems using IoT and Electric Vehicle	Dr. Bharathidasan S G
10	Anushri M Gowri Shankar S	Hybrid energy storage system based Electric Vehicle Powertrain design	Dr. Bharathidasan S G

	Mohamed Mansoor Ibrahim OMS		
11	Kailashkumar B Sriram R Vinodini V S	Design And Implementation Of Wireless Charging For Electric Vehicle	Dr.Karthikeyan R
12	Deepak H Jassim Ahemed R Bharathwaj P	Dynamic wireless charging for Electric Vehicles	Dr. Kumaravel S
13	Narendran K Prathiba P Suruthigha S K Swetha A	Electricity -present and future	Dr. Bharathidasan S G
14	Dinesh C Harish S Kalaichiyam M Gokul M	Smart Parking system using IOT	Ms. Suganthi K
15	Tharun Balaji G Sivakumar S Nithish Kumar B	Structural modification of concentrated solar cells	Dr. Kamal C
16	Nazira Nilofer S Pauline Vennila P Sree Ishverya K	Hassle-free digital authentication based polling system	Dr. Annamalai T
17	Karthikeyan P Srihari R Yuvaraj M	Integrated renewable energy charging system for Electric Vehicles	Dr. Gopinath C
18	Radhika S Shalini T Sujina M	IoT enabled integration of renewable energy sources for EV charging applications	Mr. Purushothaman D S
19	Dhaanyaakumaar G S Hemanath P Bolla Tirupati Naidu	Real time energy monitoring system incorporated with automated functions	Ms. Pavithra K S
20	Sabari S Keerthana S Srilayaa R T	Neuron - based control mechanisms for a robotic arm and legs	Ms. Arulmozhi S
21	Sanjana Suresh Kumar S Santhosh Kumar S Neson Raj S	Single axis solar tracking system using ARDUINO	Ms. Sasikala M
22	Sriranga Abhiram G Subani Shree G Kabilan	Increasing lifetime of a Battery using a secondary source	Ms. Sasikala M
23	Harini N Hareesh V Ashwanthrm T	Emergency traffic controller	Dr. Shanmuga Vadivu N

24	Jaganathan k Dharini K N Rahul C	Fire Fighting Drone	Dr. Shanmugavadivu N
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Total number of abstracts: 24

Total number of students: 73

Total number of mentors: 17

Department of Electronics and Communication Engineering

Sl. No	Name of the students (UG/PG)	Title	Name of the Mentor
1.	Hariharan G , Harshavardhan R, Kishore Aravind R (III year)	Ward Off Piracy	Ms.K.Srividhya
2.	Dhanshrepriya P C, Angelin Sheju M, Anishaa S, (II year)	Smart Study Assistant	Mr.Sivagnana Subramanian
3.	Parvesh R Ram Solaiappan A Kavitha S, (II year)	Smart Blind Stick for Visually Impaired Person	Ms.S.M.Mehzabeen
4.	Barath M Chakravarthy J , Gokul E(III year)	Ward Off Weeds	Ms.S.M.Mehzabeen
5.	N. Akshaya Nethra D. Jeevalatha A. Kamilah (II year)	Smart Farming Using IoT	Mr.Sivagnana Subramanian
6.	Shree Swetha A Shruthi R Sivalakshmi B (II year)	Machine Overheat Detection Using Arduino	Ms.R.Kousalya
7.	Abarajitha M Ajay Kumar A S (II year)	Wildlife Intrusion Detection and Alert System Using Internet Of Things	Mr.L.K.Balaji Vignesh
8.	Muthu Kumar Navin Kumar K Prasaanna A (III year)	Smart Door with Emergency Alarm System	Ms.S.M.Mehzabeen
9.	Jaikrishnan S Jagadish K Logeshwar A (II year)	Early Fire and Gas Detection With Instant Alerting System.	Mr.L.K.Balaji Vignesh
10.	Pooja V Nivetha P Keerthana D (III year)	Smart Mechanical Hand	Ms.S.M.Mehzabeen

11.	Jeevanandh.R Magesh.S Manish Kumar M (III year)	Tabletop AI Voice Assistant	Ms.C.Gomatheeswari Preethika
12.	Dhanushri Jk Aruna B Haripriya J (III year)	Animal Detection in Farms Using Deep Convolution	Ms.S.Mary Cynthia
13.	Surya Prakash S P.Tamilzharasi (II year)	Arduino Based Pseudo Personality	Mr.N.Sathish
14.	Arjun Vijay Abishek T Adithya N (III year)	AI-Based Irrigation for Water Efficiency in Agriculture	Dr.S.R.Malathi
15.	Kamalika P Joshni C Srividhya M Divyashree E (II year)	Animal Detection Sensor in Hilly Region	Mr.L.K.Balaji Vignesh
16.	Jeevitha K Dharani A Gogulapriya A(III year)	Alarm Generation -Anti Sleep Truck Drivers	Mr.Kanagaluru Venkatesh
17.	Keerthivasan A Lok Ranjan P Monish M (II year)	Interpreting Doctors Notes Using Handwriting Recognition and Deep Learning Techniques	Mr.M.K.Varadharajan
18.	Aadhithya Narayanan B, Ashish S Anish Krishnan (II year)	Water Pollution Detection and Alert System	Ms. Elakkiya. B
19.	Akash B Deepika. (II year)	Current Generating Smart Shoes	Mr. S. P. Sivagnanan Subramanian
20.	Aishwarya S Haripriya K G Hosibha V L (III year)	Sun Tracking Solar Panel	Dr. Bindhu M
21.	Haritha D Jaswika M R Divya K (III year)	Electronic Voting Machine Using RFID Authentication	Ms S M Mehzabeen
22.	Koushika Devi S Rahul A Kiran Sekar S (II year)	Ecopack	Mr.Yokesh
23.	Lathikaa Shri Saambavi P U Magesh S (II year)	IoT Based Forest Fire Monitoring System	Dr.S.R.Malathi

Total number of abstracts:23

Total number of students: 67

Total number of mentors: 14

Department of Information Technology

Sl. No	Name of the students (UG/PG)	Title	Name of the Mentor
1	Harshavardhini .G, R .Lekhashree Rajesh (III)	Automatic Annotation Of News Articles Using Deep Learning	Dr.D.Jayanthi
2	Swati Meena.G Uma.T.D NEHA JAIN (II)	Effective Land Use Management	Ms.N.Uma
3	Roshan S Roheth S (III)	SUCCOUR TO FARMER	Dr.D.Jayanthi
4	Sai Nitish .S Srinivasan Gokula Krishnan Naveen Aakash (II)	Revolutionising College Event Management Using Intelligent Automated System	Dr.D.Jayanthi
5	R.E.Keerthana (II)	Braille Console	Dr.A.Kala
6	S.Prageesthwar Oviya Srinivasan (II)	SENSEI	Dr.D.Jayanthi
7	Nitish .S Swetha .B Swetha.S (II)	Orphanage Management System	Dr.N.Devi
8	Sowndriya K Preetha .B (II)	Phony Check	Mr.S.Aravind Kumar
9	Ashwain.R Bhaskar.G Derin Joseph Austin.A (II)	Iot Waste Management System	Ms.A.Indumathi
10	M.H.Mohammed Sakeeb E.S.Danush S.Hariharan (III)	Ambulance Booking System	Dr.D.Jayanthi
11	Palayil Manav Ragul .A (II) Vivek Anand Pandiyan.M	Improved Irrigation Techniques and Monitoring Health Of Crops Using UAV And Machine Learning.	Ms.N.Uma
12	Mythra.M Puja Sri.R Rithika.B (III)	Digital Clock	Ms.R.Saktheeswari
13	Sandhya S Saranya S Navina G (III)	Cloud Computing – Virtualization and Security Issues	Dr.N.Gobalakrishnan
14	Jishnu H J Athithya Kumar T Kanishka K (III)	Iot Based Water Quality Detection and Management.	Ms.N.Uma
15	Charishma Reddy.A Dhanapradha.D (II)	The Blind Blinker's	Dr.Sharon Femi.P
16	Suren.R Nithishwar.G Neha.S (II)	Night Patrolling Bot	Dr.D.Jayanthi
17	Kathiravan M Manisha M (II)	Smart Irrigation Software For Commercial And Residential Usage.	Dr.K.Suresh
18	Abinesh V Aswinth Kumar SS Jeffrin Sam J	A Web-Based Tool For Soil Nutrient Estimation And Advisory.	Ms.A.Indumathi

	(II)		
19	ARAVIND J Jeevanandh M AKSHAYA KUMAR M (III)	Augumented Reality Shopping.	Mr.A.Thiyagarajan
20	Deeparekha A Farheen Ali Meghavarsha S (III)	Predicting The Impact Of Demographic Factors On Mental Health Using Machine Learning	Ms.A.Kavishree
21	Sangeetha.G Praveenkumar G R Padmadhrshini S (II)	Wild Animals Intrusion Monitoring And Alert System	Ms.N.Uma
22	CHANDRASEKAR V JAIGUGANESH K JYOTHI PRABHA S S(III)	The Skin Disease Detection System Using Convolutional Neural Networks (CNN).	Ms.A.Kavishree

Total number of abstracts:22

Total number of students: 58

Total number of mentors: 10

Department of Mechanical Engineering

S.No/ MEC	Name of the students	Title	Name of the Mentor
1	VENKAT KOWSIK K PRAVIN A P VIGNESH M VIGNESHKUMAR B	Study on sustainable use of recycled agricultural waste into useful industrial product and its mechanical testing.	Dr. C. Senthamaraikannan
2	NITHISH VASAND C.D PRAVIN A.P VISHWA .G	Design and fabrication of tuned vibration absorber in structures	Dr. C. Senthamaraikannan
3	M S K THARUN RAVIRAM R SACHITHANANTHAN J	Design and fabrication of Robotic arm	Dr. C. Senthamaraikannan
4	MANIKANDAN J MOHAMMED AASHIQ A ANUSHYANTH A	Robotics in drip irrigation	Mr. M. Arul Kumar
5	SYLENDRAFRABANJAN S GOKULA KRISHNAN R BOOBALAN G	Eco-Float	Mr. M. Arul Kumar
6	A. SUBHASH CHANDRA BOSE N. LOKESH S. MAHESH PRABHU	3D Printable Hydroponics	Mr. M. Maheswaran
7	E. GURUNATHRAJ S.J SURYA R.VIDYUTT	Image processing based non-contact inspection system for quality control	Dr. S. Ponnuvel

8	A. RAMANTHAN	A pollution less ultrasonic horn to reduce noise pollution and increase driver's alert.	Dr. M. Gajendiran
9	NITTISH N RAVIKRISHNAN S YOKESH	Study on mechanical testing and metallurgical Characterization of ER 5356 processed by WAAM	Mr. V. Senthil Velan
10	PRASHANNA RANGAN R POOJA S (PG)	Smart Wearable Knee Comforter and Wrist Assist	Dr. S. Ramesh Babu
11	ANEESH VARMA S KAUSHIGARAJAN U.K KALYAN M. S	EMG-Integrated Basic Finger Mechanism for Palm Paralyzed People	Dr. M. Prem Ananth
12	BINU .N	Removal of crude oil from ocean.	Dr Anannd Babu (AP / App. Chem)
13	MEER TAHIR JOSEPH M.V. LOHESH	Anti-Run over Hazard System	Dr. M. Gajendiran
14	SHASHANG SHAMEER MOHAMED S METHUN T	Ultrasonic smart cane for blind	Dr. M. Gajendiran
15	MOHAMED KAMIL A PRASANTH G RAGUL S REVANTH AKILAN J M	Hand operated adjustable semi-automatic brooming and mopping machine.	Mr. J. Sivarama Pandiyan
16	GIRI R HARSHA VARDHAN J JUSTIN KIRAN KUMAR S	Wearable flexo thermoelectric energy harvesting system	Dr. M. Mohandass
17	R. HARIHARASUDAN M. JAGAN KUMAR B. JEYARAMAN	Design and Fabrication of Feeder for Bio Digester.	Dr. V. Sridharan
18	PRADEP SREENIVASAN R RAAGHAV V RAVI SANJAY KARTHIK	Chain Cleaner Using Quick Return Mechanism	Dr. S. Arumugam
19	GOKUL P DEVARAJ S CHARAN S B	Automated speed control of ceiling fan	Mr. Ranjith kumar M (AP/EEE)
20	AKASH R BHARATH P GOKUL KRISHNAN A	Pest Control Robot	Dr. S. Ramesh Babu
21	POOJA. S WISHAL.V. S RAM NARESH SURYA.M.S	Conversion of existing bike 150cc Bajaj pulsar into hybrid bike	Mr. K. Ram Prasad

22	VARADHARAJAN C N VINISH U RAMESH ARAVIND J M	Plant Translocator	Mr. Nishal. M
23	R ROHITH RAM (Mech & Automation) SYED ABYAN BAHAAUDDIN	Mischief Managed	Dr. N.R.Sheela

Total number of abstracts: 23

Total number of students: 65

Total number of mentors: 17

Department of Marine Engineering

S.No.	Name of the students	Title	Name of the Mentor
1.	Sai Shivaditya G	Development of Automated CO ₂ Flooding system for Reefer Containers	Mr. A Mohan
	Yuvaraj V		
	Kishore V		
2.	Yathindharan A	A Novel Approach to Man Overboard Detection System	Dr.M.Anandan
	Tamilarasan C		
	Ajaysharma V		
3.	Abishek Kumar R Hariharan K Kishore Maheswaran	Study on boiler burner with different design patterns on rotating cup by using different fuel combination	Mr. A Mohan

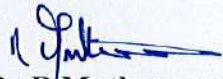
Total number of abstracts: 2

Total number of students: 6

Total number of mentors: 2

Summary of the details

S.No.	Dept.	Number Abstracts received	Number of Students Participated	Number of mentors
1	AUT	2	4	1
2	BIO	26	52	9
3	CIV	9	26	7
4	CHE	14	34	11
5	CSE	27	75	23
6	ECE	23	67	14
7	EEE	24	73	17
8	INT	22	58	16
9	MEC	23	65	17
10	MAR	2	6	2
	Total	172	460	119


 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.


 Principal

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


 30/03/23

S. GUNASEKARAN
 Dean (R&D)

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 Avadi, Chennai - 600 054
 Mobile: 9962574210



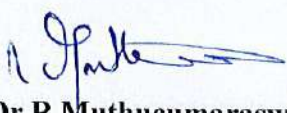
Sri Venkateswara
College of
Engineering

SVCE INNOVATES 2023

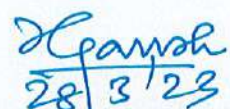
STUDENTS' RESEARCH DAY
Annexure – III

List of Panel of Judges to review the Projects Date : 28/3/2023

Dept	Name of the Judge	Dept	Name of the Judge
AUT	Dr S Ramesh Babu Professor and Head Department of Mechanical Engineering (Automobile Lab)	ECE	Dr. Srigitha S. Nath , Dean, Professor and Head Department of Electronics and Communication Engineering, Saveetha Engineering College, (Embedded Systems Lab, II floor/IMS)
BIO	Dr R Palani Associate Professor Department of Chemical Engineering (Ground and First Floor)	EEE	Dr Nalin Kant Mohanty Professor Department of Electrical and Electronics Engineering (ED Hall)
CIV	Dr R Kumutha Professor and Head Department of Civil Engineering (Survey Lab, I floor/CVE)	INT	Dr G Maria Kalavathy Professor and Head Department of CSE and ADS, St Joseph's College of Engineering Chennai. (PG lab, Ground floor)
CHE	Dr N Meyyappan Professor and Head Department of Chemical Engineering (ED Hall)	MEC	Dr J Venkatesan Professor and Head Department of Automobile Engineering (ED Hall)
CSE	Dr T Ruso Project Manager CTS, Chennai (CSE lab, Ground Floor)	MAR	Dr M Prem Ananth Associate Professor and Dep. COE Department of Mechanical Engineering (Marine Lab)


28/3/2023
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.


28/3/23
Principal
Prof.S. Ganesh Vaidyanathan, Ph.D
Principal
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur Tk-602 117.
Tamilnadu State, India.



S.No	Branch	Name of the students	Project Title	Name of the mentor	Prize details
1.	AUT	J V Vigneshwaran Shri Krishnaa G Rohith R R Menon	Personalized speed governor system using RFID card	Dr V Ganesh	First Rs. 600/-
2.	BIO	Abi Sherlin (PG)	Cosmeceutical perspective of Marine Polysaccharides skin aging applications	Dr. G. Karthigadevi	First Rs.600/-
3.	BIO	Bharadwaj R(PG)	Bael Fruit Juice with Nano-dispersed Beta-carotene	Dr. K. Vasantharaj	Second Rs.400/-
4.	BIO	Harini. S, Kamalavarshini. B	Computational binding studies of Withanolide A on mitochondrial targeting of HSP90 in Hepatocellular Carcinoma based on network pharmacology approach	Dr. P.K. Praveen Kumar	Second Rs.400/-
5.	BIO	Akshara B S, Kaaviya V, Nivashini Vindhya	Bioremediation of Dairy Effluent using Phycopods: A novel approach	Ms. N. Kanagam	Third Rs. 200/-
6.	BIO	Gaayathri M, Sulakshuna B	Testing the Effects of Poppy Seeds on Human Health for the Treatment of Cancer	Mr J G Aswin Jenio	Third Rs. 200/-
7.	CHE	S. Vasudevan M. Rohith Narayan	Grey PET	Mr. S. Jai Ganesh	First Rs.600/-
8.	CHE	Jow Raymund I Hindhuja B Dakshana K	Utilization, Isolation and Quantification of watermelon pulp for lycopene extraction	Dr Palani R	Second Rs.400/-
9.	CHE	V. K. Vignesh, S. Umesh Anandh	Development of Reactive Electrochemical Membrane (REM) for Onsite Decentralized Wastewater Treatment	Dr. N. P. Kavitha Dr. G. Sudha	Third Rs. 200/-
10.	CHE	N. Prerna Unnathe	Superconductors: a futuristic outlook	Dr. Sudhakar K B	Third Rs. 200/-

S.No	Branch	Name of the students	Project Title	Name of the mentor	Prize details
11.	CIV	Jayasurya. J Puviarasu. S Santhosh Kumar. N.M, (III year)	Reinforced Interlocking blocks as a wall/ slab panel	Mr. S. Hariswaran	First Rs. 600/-
12.	CIV	Keerthi Vaasan R Ramanan B B Rohit V, (IV year)	Partial replacement of coconut shell as coarse aggregate in concrete	Dr.P. Venkateswara Rao	Second Rs. 400/-
13.	CIV	Brithisha.S Akriitha. S Kavinmalar. K, (IV year)	Assessment of Macro and Micro plastics in sands for Chennai beaches	Mr. G. Arun	Third Rs.200/-
14.	CSE	Harishri S	POTHOLE Detection RoadEasy	Ms.S.Rajalakshmi	First Rs. 600/-
15.	CSE	Murahari A H ,(AD) Shreemirrah A K	Smart Waste Management System	Ms.R.K. Kapilavani	Second Rs. 400/-
16.	CSE	Lakshitha M , Naveen D , Neha U	Agri-Connect	Mr.A.S. Vibith	Third Rs.200/-
17.	CSE	Muralidharan S , Mohammed Kaleemullah A.R ,	IoT based fire indication system in farm land	Dr.N.R.Sheela	Third Rs.200/-
18.	CSE	Kolla Mohan Rao , Lokesh T , Kishan M	SVCE BOT	Dr.R.Anitha	Third Rs.200/-
19.	EEE	Deepak H Jassim Ahemed R Bharathwaj P	Dynamic wireless charging for Electric Vehicles	Dr. Kumaravel S	First Rs. 600/-
20.	EEE	Harini N Hareesh V Ashwanthrm T	Emergency traffic controller	Dr. Shanmuga Vadivu N	Second Rs. 400/-
21.	EEE	Karthikeyan P Srihari R Yuvaraj M	Integrated renewable energy charging system for Electric Vehicles	Dr. Gopinath C	Third Rs.200/-
22.	ECE	Parvesh R Ram Solaiappan A Kavitha S, (II year)	Smart Blind Stick for Visually Impaired Person	Ms.S.M.Mehzabeen	First Rs. 600/-
23.	ECE	Koushika Devi S Rahul A Kiran Sekar S (II year)	Ecopack	Mr.Yokesh	Second Rs. 400/-
24.	ECE	Pooja V Nivetha P Keerthana D (III year)	Smart Mechanical Hand	Ms.S.M.Mehzabeen	Third Rs.200/-
25.	INT	S.Prageesthwar Oviya Srinivasan (II)	SENSEI	Dr.D.Jayanthi	First Rs. 600/-

S.No	Branch	Name of the students	Project Title	Name of the mentor	Prize details
26.	INT	Jishnu H J Athithya Kumar T Kanishka K (III)	lot Based Water Quality Detection and Management.	Ms.N.Uma	Second Rs. 400/-
27.	INT	Nitish .S Swetha .B Swetha.S (II)	Orphanage Management System	Dr.N.Devi	Third Rs.200/-
28.	INT	Roshan S Roheth S (III)	SUCCOUR TO FARMER	Dr.D.Jayanthi	Third Rs.200/-
29.	MEC	Prashanna Rangan R Pooja S (PG)	Smart Wearable Knee Comforter and Wrist Assist	Dr. S. Ramesh Babu	First Rs. 600/-
30.	MEC	A. RAMANTHAN	A pollution less ultrasonic horn to reduce noise pollution and increase driver's alert.	Dr. M. Gajendiran	Second Rs. 400/-
31.	MEC	E. GURUNATHRAJ S.J SURYA R.VIDYUTT	Image processing based non-contact inspection system for quality control	Dr. S. Ponnuvel	Third Rs.200/-
32.	MEC-AUM	R Rohith Ram (Automation) Syed Abyan Bahaauddin	Mischief Managed	Dr. N.R.Sheela	First Rs. 600/-
33.	MAR	Sai Shivaditya G Yuvaraj V Kishore V	Modern Treatment Strategies for Marine Pollution	Dr M Anandan	Third Rs. 200/-
				Total	Rs.12,400

(Rupees Twelve thousand four hundred only)

Summary of Prize Money distribution

Prize details	Amount (in Rs)	Number of students Received	Total Amount (in Rs.)
First Prize	Rs. 600	10	Rs. 6000
Second Prize	Rs. 400	9	Rs. 3600
Third Prize	Rs. 200	14	Rs. 2800
		33 GT	Rs. 12,400

Dr R Muthucumaraswamy

Dean (Research)

Dr. R.Muthucumaraswamy, Ph.D.,
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Page 3 of 3

Principal

Principal

Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur Tk-602 117
Tamilnadu, India.



Autonomous Institution- Affiliated to Anna University

Pennalur, Sriperumbudur - 602 117



Laplace

The Management, Staff and Students

Cordially invite you for the

VALEDICTORY FUNCTION OF

SVCE INNOVATES 2023

STUDENTS' RESEARCH DAY

Address by

Dr K R Santha

Vice Principal, Professor and Head,

Department of Electrical and Electronics Engineering

SRI VENKATESWARA COLLEGE OF ENGINEERING

Venue : Function Hall

Date and Time : 30th March 2023, 2.30 PM

ALL ARE WELCOME

<u>Time</u>	<u>Program</u>
2.30 pm – 2.35 pm	Prayer song
2.35 pm – 2.40 pm	Welcome address by Prof. R Muthucumaraswamy Dean(Research)
2.40 pm – 2.50 pm	Valedictory address by Dr K R Santha Vice Principal, Professor and Head Department of EEE
2.50 pm – 3.05 pm	Prize distribution by Dr K R Santha Vice Principal
3.05 pm – 3.10 pm	Vote of thanks by Member of Students' Council
3.10 pm – 3.15 pm	National Anthem

Thank you



Students' Research Day (SVCE INNOVATES 2023)

REPORT

Date: 5/4/2023

'Students Research Day 2023' is an annual event, was held on the 30th March 2023 (Thursday) in the Function Hall at 9.00 AM. The event held under the name "SVCE INNOVATES 2023", 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.

This year, the event was organized by the office of the Dean (Research) Dr.R.Muthucumaraswamy and the UG members of the student council, additionally they were supported by the faculty coordinators from each department as mentioned in Annexure I. The initial circular, inviting the UG and PG students of the various departments of the college to submit their abstracts was released on the 24th March 2023. A copy of the initial circular is enclosed. Students were allowed to group themselves in to batches of 2 to 4 students per batch and were to be mentored by a faculty member.

The response from the students was very enthusiastic in spite of the tight academic schedule of the college. Around 182 batches of students submitted the abstracts of their ideas. The abstracts from the departments were segregated in to 10 streams.

1. Automobile Engineering
2. Biotechnology
3. Chemical Engineering
4. Civil Engineering
5. Computer Science and Engineering
6. Electrical and Electronics Engineering
7. Electronics and Communication Engineering
8. Information Technology
9. Mechanical Engineering and Marine Engineering
10. Marine Engineering


We have received **182** abstracts from all branches of Engineering; around **484** students are participated in the research competition. The number of abstracts received from each department and the corresponding number is given in Annexure II.

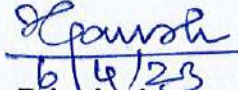
Six internal judges (not from the same department) and 3 external experts were identified to evaluate the ideas and the details are listed in Annexure III:

On 30th March April 2023(Thursday), after welcome address by the Dean (Research), the event was inaugurated by **Dr S Gunasekaran**, Dean (Research and Development), Founder President of Spectrophysics Association, St Prter's Institute of higher education, Avadi, Chennai. He appreciated the students who take part in research competition. He is also advised the students take part in research and innovation activities apart from academics.

A table was provided to each of the shortlisted batches, where they put up a poster, a hardware model and a laptop for power point presentation. The experts spent more than 4 hours and examined each of the project ideas in detail. They were appreciating the ideas put up by the students and for the record recommended that prize can be given to the ideas mentioned in Annexure IV. The judges also felt that some of the ideas can be commercialized. Apart from the prize winners, participation certificates were issued to all the students. We are also distributed the certificate of appreciation to all the mentors.

The valedictory function was held in the afternoon at 2.30 PM in the Function Hall. Vice Principal preside over the Valedictory function to distribute the cash prizes for winners (10 first prizes, 9 second prizes and 14 third prizes) along with the certificate of appreciation for the first three places. Dean (Research) appreciated all the participants and prize winners for their active participation and suggested that these should be further pursued and converted in to patents and entrepreneurial venture.

 5/4/2023
Dr. R. Muthucumaraswamy
Dean (Research)


6/4/23
Principal

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

* Dean-R : pl issue an advice to all the prospective student groups/ mentors to take their ideas forward in the form of product / patent or Commercialization