

MAKE-A-THON 3.0

INTRACOLLEGE TECHNICAL HACKATHON

**SRI VENKATESWARA COLLEGE OF ENGINEERING
(AUTONOMOUS AND AFFILIATED TO ANNA UNIVERSITY)
PENNALUR, SRIPERUMBUDUR(TK), TAMIL NADU - 602 117, INDIA.**

SRI VENKATESWARA COLLEGE OF ENGINEERING
(Autonomous- Affiliated to Anna University, Chennai)
Sriperumbudur Tk. Pin- 602117, Tamilnadu, India. www.svce.ac.in

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Vision

To excel in offering value-based quality education in the field of Electronics and Communication Engineering, keeping in pace with the latest developments in technology through exemplary research, to raise the intellectual competence to match global standards and to make significant contributions to the society.

Mission

- To provide the best pedagogical atmosphere of highest quality through modern infrastructure, latest knowledge and cutting-edge skills.
- To fulfil the research interests of faculty and students by promoting and sustaining inhouse research facilities so as to obtain the reputed publications and patents.
- To educate our students, the ethical and moral values, integrity, leadership and other quality aspects to cater to the growing need for values in the society.

Programme Educational Objectives (PEOs)

- PEO1: Create value to organizations as an employee at various levels, by improving the systems and processes using appropriate methods and tools learnt from the programme.
- PEO2: Run an organization successfully with good social responsibility as an entrepreneur, making use of the knowledge and skills acquired from the programme.
- PEO3: Contribute to the future by fostering research in the chosen area as an erudite scholar, based on the motivation derived from the programme.

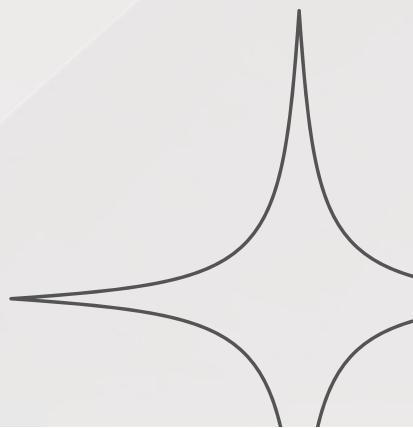


Message from the Head of the Department

The Department of Electronics and Communication Engineering seeks to combine excellence in education with service to the industry. The department has experienced faculties with a strong commitment to engineering education who work with zeal and dedication to provide a constructive learning environment. They regularly organize workshops, training programs, conferences, and related activities for the benefit of the students' community. Our students are always encouraged to take part in co-curricular and extracurricular activities in various state-level / national-level competitions including national-level symposiums and international conferences that are conducted abroad.

Make-a-Thon 3.0, the intra-college technical hackathon was conducted on 25th & 26th March 2022. There was an overwhelming response. I congratulate the faculties and the members of ECEA, IETE-SF and RAIC for making this event happen. It was beneficial for the engineering student community. I'm sure that the association and the clubs will organize many more events in the future. The entire teaching fraternity of the Electronics and Communication Engineering department looks forward to the holistic growth of the department.

Dr. S. Muthukumar
HOD- ECE department
SVCE





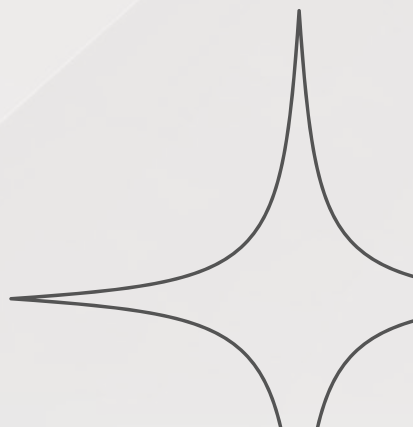
Message from Faculty Coordinator

I'm exhilarated in releasing the Departmental Magazine. Role of education in today's era is not only to pursue academic excellence but also requires overall development of a student. The department organizes technical and innovative events round the year helping the students become industry-ready.

The magazine is a glimpse of the intra-college hackathon conducted by our department - Make-a-Thon 3.0. In spite of the pandemic, there was an overwhelming response for Make-a-Thon and about 72 students participated in hackathon conducted.

I thank the Principal, the HoD, the faculties and the students for their extended support for every event.

Smt. T.J.Jeyaprabha
Assistant professor
ECE department
SVCE



ABOUT THE CHIEF GUEST



Mr. Maurya Vijayaramachandran, an alumnus of SVCE was the chief guest for the event. He is currently pursuing his Integrated Masters and PhD course in AI at FAU Erlangen, Germany. He was the founding member of FoDSE - a club dedicated towards AI and Machine Learning in the college. He was also the former Chairman of the IETE Student Forum at SVCE and has coordinated and conducted many successful events during his tenure. He has also published 10+ papers in various reputed international journals and also acquired two patents.

ABOUT MAKE-A-THON 3.0

The Make-a-Thon 3.0 was organized by the Electronics and Communication Engineers Association (ECEA) in association with Institution of Electronics and Telecommunication Engineers Student Forum of SVCE (ISF SVCE) and Robotics and Artificial Intelligence Club (RAIC). The event was open for the second, third and final year students of Sri Venkateswara College of Engineering.

The Make-a-thon 3.0 challenged students to think out-of-the-box and offer innovative ideas to build smart applications which will help address major real time problems in our country.

A total of 35 teams (104 students) registered for the event, out of which 22 teams (65 students) were shortlisted based on the abstract submitted



The poster for Make-a-Thon 3.0 features a dark blue background with a starburst graphic in the top left and bottom right corners. At the top, it displays logos for SVCE (Sri Venkateswara College of Engineering), RAIC (Robotics and Artificial Intelligence Club), and NIR (National Institute of Robotics). The text on the poster reads: 'SRI VENKATESWARA COLLEGE OF ENGINEERING DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING in association with ELECTRONICS AND COMMUNICATION ENGINEERS ASSOCIATION & THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS & ROBOTICS AND ARTIFICIAL INTELLIGENCE CLUB'. The main title 'MAKE-A-THON 3.0' is prominently displayed in white, with '3.0' in a larger font. Below the title, it specifies 'TEAM OF THREE', '25th & 26th MARCH', and '₹ 300 PER PERSON'. The venue is listed as 'VENUE : PLACEMENT CELL' and notes that 'DINNER , BREAKFAST AND REFRESHMENTS INCLUDED FOR REGISTRATION FEE'. A call to action 'GET YOURSELF ENROLLED!!' is followed by 'WIN EXCITING CASH PRIZES'. At the bottom, there is a QR code, a registration link 'REGISTER @ https://tinyurl.com/MakeAThon3Point0', and contact information for GOKUL R (Secretary ECEA, 6583461823) and SIVASUBRAMANIAN R (Honorary Secretary-IETE, 9952051048).

ABOUT MAKE-A-THON 3.0

Make-a-Thon 3.0 was a 24-hour event that challenged students to offer innovative solutions in the form of simulations and prototypes which will help address crucial real-time problems in our country and around the world. The event happened for 24 hours from 25th March 10 AM to 26th March 2022 10 AM at the Placement Cell, SVCE. The event witnessed a participation of a total of 22 teams. The developers had to build products that would impact and shape the future.

The event commenced with a prayer song by Ms. Shruthi Sreedhar, 1I Year ECE Student, followed by a welcome address by Mrs. T.J. Jeyaprabha, Associate Professor, Department of ECE. Mr. Gokul Rajan, The Treasurer of ECEA gave a short note and introduced the chief guest for the day. The chief guest addressed the crowd, spoke about the importance of having a vision, and prompted them to think and build products that would benefit society.



Dr.S.Muthukumar, Head of the Department, ECE addressed the crowd and appreciated all the participants and organizers for their fervent efforts. Ms. R.Kousalya, Assistant Professor, Department of ECE explained the rules and the scoring rubric to the participants. The Make-a-thon 3.0 began at 10.00 AM shortly after the inauguration. The inaugural function was presided over by the honorable Chief Guest Mr. Maurya Vijayaramachandran, an alumnus of SVCE who is currently pursuing his Ph.D. at FAU Erlangen, Germany



During the entire organizing of the event, the executive members of ECE Association, IETE - SF and RAIC periodically checked upon all the teams and the progress of their model to ensure and provide if any help was needed. The 22 teams pushed themselves into innovating new models and solutions for their problem statements. Food and refreshments were also provided for the participants. The event had two round of judging and ended at 10:00 AM on 26 March 2022 (Saturday).

The judging began soon after. All the teams were segregated to accommodate the judges who were industrial professionals and professors. Each team was given a time slot during which they had to explain the problem statement and their solution along with a working model followed by an inquisitive Q&A session by the judges.

A plethora of problem statements were chosen ranging from the following:

1. Smart Communication
- 2 Health care
- Rural development
4. Smart vehicles
5. Smart homes
6. Microplastic detection
7. Robotics
8. Cyber Security
9. IoT
10. Disease Awareness
11. Pandemic Safety
12. AI/ML/DL for human development
13. Gaming development



The Make-a-thon consisted of two rounds of judging. The first round of judging began at 9:00 PM on 25th March 2022. The teams were segregated into three different panels. The faculty judges present for the three rounds of judging were Dr.T. Annamalai, Assistant Professor, Department of EEE; Dr.B. Ashvanth, Assistant Professor, Department of ECE, Mr.P.Arul, Assistant Professor, Department of ECE; Ms. T.J Jeyaprabha, Associate Professor, Department of ECE, Ms.R.Kousalya, Assistant Professor, Department of ECE Ms.A.Indhumathi, Assistant Professor, Department of IT; Ms.B. Sarala, Assistant Professor, Department of ECE. The judges of the preliminary phase examined the work of the participants and made sure their work is abided by the rules and regulations of the event and noted down the progress and also gave suggestions for improvement.

The second round of judging began shortly after the event was over. There were six judges present for the second round of judging on 26th March 2022 at 10.30 AM to evaluate the performance of the participants. The solutions were presented in the form of coding, video demonstration and presentation were Mr.Rakesh Elamaran, Product Security Analyst, Temenos India Pvt Ltd, Mr. Keshav E, software Engineer, Mr.Prem Raj S. Junior Analyst, Cognizant, Mr.Sudesh Kumar S. Machine Learning & Robotics Eng1neer, Red Mind Technologies. Mr.Santhosh S, PAT, ADM-CE Technology Solutions, Mr Lokesh S, Software Developer. All the judges were encouraging and supportive so the participants and appreciated the organizing team for their efforts Delivery, Cognizant The prize distribution ceremony was graced by the presence of the Vice Principal of SVCE, Dr.K.R.Shantha She addressed the crowd and congratulated the participants for their enthusiasm. The cash prizes and certificates to all the winners were awarded by Dr.K.R.Shantha & Dr.S.Muthukumar. Ms.T.J.Jeyaprabha , Associate professor. Department of ECE awarded the participation certificates.



WINNERS OF MAKE-A-THON 3.0

1ST PLACE

Team name: FREETHINKERS

Problem statement: Health care monitoring system based on IoT and ML



2ND PLACE

Team name: PIXELS

Problem statement: Blood clot detection and location and Place using Neural Network and Image processing in Python



WINNERS OF MAKE-A-THON 3.0

3RD PLACE:

Team name: SLICE OF LIFE

Problem statement: Home Stay Mobile and Web Application



3RD PLACE:

Team name: CYBERITES

Problem statement: Bug Tracking System



WINNERS OF MAKE-A-THON 3.0

BUDDING INNOVATOR OF SVCE:

Team name: TEAM CHEEMS

Problem statement: Shelter Safety



NOVELTY PRIZE:

Team name: INOVA

Problem statement: Detection of secondary micro-plastics using TensorFlow Lite



WINNERS OF MAKE-A-THON 3.0

BEST HARDWARE FEASIBILITY:

Team name: ANTI-NERDS

Problem statement: Affordable smart home alert system



BEST UI/UX:

Team name: VOID MAIN 101

Problem statement: Yoga Fitness Pose recognition and gamification app using Machine Learning



CHIEF GUEST

MR. MAURYA VIJAYARAMACHANDRAN



CHIEF PATRON

DR.S GANESH VAIDYANATHAN
PRINCIPAL



CONVENOR

DR.S MUTHUKUMAR
PROFESSOR & HOD, ECE



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DR.ASHVANTH , ASSISTANT PROFESSOR, ECE

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