



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
DEEMED TO BE
University
(Estbl. u/s 3 of UGC Act, 1956)
Avadi, Chennai



MAGANINNE

**ENSIGHT
BYTES**

2025 - 2026

SCHOOL OF COMPUTING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



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VISION AND MISSION OF THE DEPARTMENT



VISION

To produce intellectual graduates who could contribute significantly in the analysis, design, development, operation and maintenance of complex software systems for meeting the ever-changing requirements of service systems and to compete globally towards professional excellence.

MISSION

- M1:** Design curricula for imparting training in adapting newer computing methods and technologies for providing effective and efficient solutions to the existing / new problems.
- M2:** Emphasizing in-depth knowledge of the subjects by employing Information and Communication Technology (ICT) based pedagogy methods.
- M3:** Creating a conducive research environment for making technological innovations by the faculty and students.
- M4:** Providing leadership skills and professional ethics thereby making a prolific career in academics and industry.

PROGRAM EDUCATIONAL OBJECTIVES

- PEO1:** Design curricula for imparting training in adapting newer computing methods and technologies for providing effective and efficient solutions to the existing / new problems.
- PEO2:** Emphasizing in-depth knowledge of the subjects by employing Information and Communication Technology (ICT) based pedagogy methods.
- PEO3:** Creating a conducive research environment for making technological innovations by the faculty and students.
- PEO4:** Providing leadership skills and professional ethics thereby making a prolific career in academics and industry.

PROGRAM OUTCOMES



- PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3: Design / development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
- PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- PO5: Modern tool usage and The engineer and society:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations, Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- PO6: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO7: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO8: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO9: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- PO10: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- PO11: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.



PROGRAM SPECIFIC OUTCOMES

PSO1: Mathematical Concepts: Equipped with the knowledge to infer the mathematical models for problem solving using data structures, design and analysis of algorithms

PSO2: Software Development: Exhibit proficiency to analyze, design and develop applications in various domains to provide solutions using innovative ideas.

PSO3: Transferring Skills: Demonstrate the ability to provide solutions for real world problems through acquaintance and hands-on training.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering (CSE), established in 1997, has grown into a vibrant academic community with a current strength of 4,205 students (including higher semester students). Over the years, the department has continuously evolved to meet the dynamic demands of the computing industry and academic research.

The department is strengthened by a committed faculty team of 265 members, comprising 49 Professors, 65 Associate Professors, 61 Assistant Professors (Senior Grade), and 90 Assistant Professors. Their academic excellence, research expertise, and industry exposure ensure high standards in teaching, innovation, and scholarly contributions.

Equipped with state-of-the-art laboratories and modern infrastructure, the department provides an enriching and technology-driven learning environment that nurtures technical competence and research-oriented thinking.

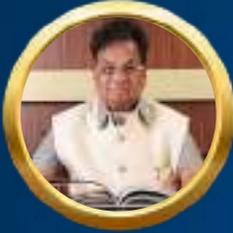
Students actively participate in professional bodies such as CSI, IEEE-CS, IEEE-PCS, IEEE-WIE, ACM, and ISTE, enhancing their professional exposure and global outlook.

Our graduates have consistently secured placements in leading multinational corporations including Amazon, Cisco, Accenture, Capgemini, Virtusa, Wipro, ZOHO, KAAR Technologies, TCS, Microsoft, Infosys, Cognizant, HP, and Verizon, reflecting the department's strong industry connect and commitment to academic excellence.

For more information, visit: www.veltech.edu.in/cse.



INSTITUTIONAL LEADERSHIP



Col. Prof. Vel. Dr. R. Rangarajan

B.E. (Elec), B.E. (Mech), M.S. (Auto), D.Sc.,
Founder President & Chancellor



Dr. Sagunthala Rangarajan

MBBS
Foundress President



Mrs. Rangarajan Mahalakshmi Kishore

B.Tech, M.Tech, MBA(UK),
Chairperson & Managing Trustee



Prof. Dr. Rajat Gupta

Vice-Chancellor





DEPARTMENT LEADERSHIP



Dr. S P. Chokkalingam

M.Tech, Ph.D

Professor

Dean - School of Computing



Prof. Dr. V. Dhilipkumar

M.E, Ph.D

Professor

Associate Dean - School of Computing



Prof. Dr. R. Parthasarathy

M.E, Ph.D

Professor

Assistant Dean - School of Computing



Dr. M. Kavitha

M.E, Ph.D

Professor

HoD - Computer Science and Engineering



Dr. T. Kujani

M.E, Ph.D

Associate Professor

Asst. HoD - Computer Science and Engineering

Message from Chancellor



Col. Prof. Dr. Vel R. Rangarajan

It gives me immense pleasure to extend my warm greetings to the faculty members, students, and contributors of the Computer Science and Engineering Department Magazine of Vel Tech University.

The field of Computer Science is evolving rapidly, shaping the future of technology, innovation, and global development. Our students and faculty continue to demonstrate strong dedication in advancing knowledge, research, and technological excellence.

I am proud to see the department fostering creativity, critical thinking, and problem-solving skills that prepare students to meet the challenges of the digital era and contribute meaningfully to society.

A departmental magazine serves as an excellent platform for sharing ideas, achievements, research insights, and innovative thoughts. It reflects the intellectual vibrancy and collaborative spirit of the academic community. I sincerely appreciate the efforts of the editorial team in compiling the academic and creative contributions of students and faculty.

I congratulate the Department of Computer Science and Engineering for this commendable initiative and wish the magazine great success in promoting knowledge sharing and innovation.

Best Wishes,

Col. Prof. Dr. Vel R. Rangarajan

Chancellor

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Message from Chairperson & Managing Trustee



Mrs. Rangarajan Mahalakshmi Kishore

I am pleased to know that the Department of Computer Science and Engineering is bringing out its departmental magazine. Such initiatives provide an excellent platform for students and faculty to share their knowledge, ideas, achievements, and creative thoughts while reflecting the vibrant academic culture of the department. A magazine not only showcases technical and research contributions but also encourages intellectual exchange and collaboration among members of the academic community.

In the present era of rapid technological advancement, it is important to nurture innovation, research orientation, and strong ethical values among young minds. The field of Computer Science continues to transform the way we live, learn, and work. Students should be encouraged to explore emerging technologies, develop problem-solving skills, and contribute meaningfully to society through innovation.

I appreciate the sincere efforts of the faculty members and students who worked together to bring out this publication. Their dedication in compiling valuable academic contributions is truly commendable. I congratulate the editorial team and wish the department continued success in achieving academic excellence.

Best Wishes,

Mrs. Rangarajan Mahalakshmi Kishore

Chairperson and Managing Trustee

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.

Message from Vice-Chancellor



Prof. Dr. Rajat Gupta

I am delighted to learn that the Department of Computer Science and Engineering is publishing its departmental magazine. Such initiatives offer a valuable platform for both students and faculty members to present their knowledge, ideas, accomplishments, and creative perspectives, while reflecting the dynamic academic environment of the department. A departmental magazine not only highlights technical and research contributions but also fosters intellectual interaction and collaboration within the academic community.

In today's rapidly evolving technological landscape, it is essential to encourage innovation, research-oriented thinking, and strong ethical values among students. The field of Computer Science continues to influence and transform every aspect of modern life, from education and communication to industry and global development. Therefore, students must be motivated to explore emerging technologies, strengthen their problem-solving abilities, and contribute to societal progress through innovative ideas and responsible technological practices.

I sincerely appreciate the dedication and teamwork of the faculty members and students who have contributed to the successful publication of this magazine. I extend my congratulations to the editorial team and wish the department continued growth and excellence in all its academic and research endeavors.

Best Wishes,

Prof. Dr. Rajat Gupta

Vice-Chancellor

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.

Message from Pro Vice-Chancellor



Prof. Dr. R. Sivaraman

I am happy to note that the Department of Computer Science and Engineering is bringing out its departmental magazine. Such initiatives provide an excellent opportunity for students and faculty members to share their knowledge, innovative ideas, achievements, and creative perspectives with the academic community. A departmental magazine reflects the intellectual spirit and collaborative efforts of the department while encouraging students to actively participate in academic and creative activities.

In the rapidly evolving field of Computer Science, it is important for students to stay updated with emerging technologies and advancements. Developing strong analytical thinking, problem-solving abilities, and research orientation is essential in today's digital world. A magazine like this serves as a valuable platform where students can showcase their creativity, technical knowledge, and innovative ideas.

I sincerely appreciate the efforts of the editorial team, faculty members, and students who worked together to bring out this publication. Their dedication in compiling meaningful content is truly commendable. I extend my best wishes to the department for continued success in its academic endeavors.

Best Wishes,

Prof. Dr. R. Sivaraman

Pro Vice-Chancellor

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Message from Registrar



Prof. Dr. E. Kannan

I am pleased to know that the Department of Computer Science and Engineering is publishing its departmental magazine. Such initiatives provide a valuable platform for students and faculty to present their academic achievements, innovative ideas, and creative talents. A departmental magazine encourages students to actively participate in academic, technical, and creative activities while sharing their perspectives with the academic community.

A magazine reflects the intellectual energy and collaborative spirit of the department. It encourages students to explore new technologies, share knowledge, and develop confidence in expressing their ideas. In today's rapidly evolving technological world, it is important for students to remain curious, creative, and committed to continuous learning.

I appreciate the sincere efforts of the editorial team, faculty members, and students who contributed to this publication. Their dedication in compiling valuable content is truly commendable. I congratulate the editorial team and wish them continued success in their academic and professional journey.

Best Wishes,

Prof. Dr. E. Kannan

Registrar

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Message from Dean School of Computing



Prof. Dr. SP. Chokkalingam

It is encouraging to witness the publication of the Department of Computer Science and Engineering Magazine. A magazine of this nature reflects the intellectual enthusiasm and creative spirit of the academic community. It provides a valuable opportunity for students and faculty members to express their perspectives on technology, research, innovation, and societal impact. Such platforms promote academic dialogue, creativity, and the exchange of ideas within the department.

The discipline of computing is at the forefront of global transformation. Advancements in areas such as artificial intelligence, cloud computing, data analytics, and cybersecurity continue to reshape industries and the future workforce. In this rapidly evolving technological landscape, students must develop strong analytical thinking, technical competence, and a commitment to lifelong learning.

I appreciate the efforts of the students, faculty members, and the editorial team who contributed their time and ideas to make this publication possible. I extend my best wishes to the department and hope this magazine continues to inspire knowledge sharing and innovation among students.

Best Wishes,

Prof. Dr. SP. Chokkalingam

Dean – School of Computing

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Message from Associate Dean School of Computing



Prof. Dr. V. Dhilip Kumar

It is a pleasure to see the Department of Computer Science and Engineering presenting its departmental magazine. Such initiatives provide a creative and intellectual platform for students to express their ideas, explore emerging technologies, and showcase their academic and extracurricular achievements. A departmental magazine encourages students to participate actively in academic discussions, creative expression, and knowledge sharing within the university community.

A magazine not only records activities but also reflects the department's spirit of innovation and collaborative learning. Through articles, technical insights, and creative contributions, students gain confidence in sharing their thoughts and perspectives while developing a deeper understanding of Computer Science and Engineering.

In today's digital era, technological advancements are transforming every aspect of society. Therefore, students must cultivate critical thinking, problem-solving abilities, and a sense of responsibility in applying technology for societal benefit.

I congratulate the editorial team and contributors for their dedication in bringing out this publication and wish the magazine continued success.

Best Wishes,

Prof. Dr. V. Dhilip Kumar

Associate Dean – School of Computing

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Message from Assistant Dean School of Computing



Dr. R. Parthasarathy

I am glad to know that the Department of Computer Science and Engineering has taken the initiative to publish its departmental magazine. This publication serves as an excellent platform for students and faculty to present their ideas, achievements, and innovative thinking.

Magazines play an important role in encouraging creativity and intellectual curiosity among students. They allow young minds to explore diverse topics ranging from technology and research to social awareness and innovation.

I appreciate the sincere efforts of the editorial team, faculty members, and students who have contributed to this publication. Their hard work and enthusiasm have made this initiative possible.

I congratulate the department for this commendable effort and wish the magazine great success in promoting knowledge, creativity, and academic excellence.

Best Wishes,

Dr. R. Parthasarathy

Assistant Dean – School of Computing

**Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and
Technology**

Head of Department Computer Science and Engineering



Prof. Dr. M. Kavitha

It gives me great pleasure to present this edition of our department magazine. A magazine is a wonderful platform for students to showcase their creativity, knowledge, and innovative ideas. It reflects the enthusiasm, talents, and achievements of both students and faculty while highlighting the vibrant academic culture of the department. Such publications encourage students to express their thoughts, share experiences, and participate in intellectual discussions.

A departmental magazine not only records achievements and activities but also inspires students to explore new ideas and perspectives. Through articles, technical contributions, and creative writing, students gain confidence in presenting their knowledge and abilities. It also promotes teamwork, collaboration, and a strong sense of belonging within the department.

I sincerely appreciate the efforts of the editorial team, coordinators, and students who contributed their time and creativity to bring out this magazine. Their dedication has made this publication possible.

I wish the editorial team and all contributors continued success in their future endeavors.

Best Wishes,

Prof. Dr. M. Kavitha

Head of Department - CSE

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and
Technology

Assistant Head of Department Computer Science and Engineering



Dr. T. Kujani

It gives me immense pleasure to share that our Department of Computer Science and Engineering is proudly releasing the magazine **EnightByte**, a platform that showcases the creativity, knowledge, and innovative ideas of our students and faculty members. Such initiatives provide an excellent opportunity for young minds to express their thoughts, present technical insights, and share their academic and creative achievements with the wider academic community.

I sincerely appreciate the efforts of the editorial team, contributors, and faculty coordinators who have dedicated their time, creativity, and energy to bring out this wonderful publication. Their dedication and teamwork truly reflect the spirit of academic collaboration and innovation.

I hope that **EnightByte** continues to inspire young minds to think creatively, innovate responsibly, and contribute positively to the field of Computer Science and Engineering. I wish the magazine great success and many more inspiring editions in the years to come.

Best Wishes,

Dr. T. Kujani

Associate Professor & Assistant Head of Department - CSE

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology

Students' Achievements



Project Funding Achievement:

A project proposal titled “**Modular Solar Refrigeration System for Vaccines in Rural Health Facilities**” has been successfully funded with a grant of \$2,100 (approximately ₹1.83 lakh) by the IEEE Industry Applications Society under the Engineering Projects in Community Service (EPICS) initiative. The project focuses on developing an innovative solar-powered refrigeration system to support vaccine storage in rural healthcare centers, addressing critical challenges in medical infrastructure and cold-chain reliability.

The project is led by **Dr. D. Uma Nandhini, Professor, Department of CSE**, as the Principal Investigator, with student team members **Shahirun (VTU22147)**, **Azfer Mirza (VTU21504)**, and **Altaf Sarwar (VTU23782)**. This achievement highlights the department's commitment to community-driven engineering innovation and impactful research addressing real-world healthcare challenges.



Students' Achievements



ENVISION 2026

Meghana A. has been shortlisted for the final round and actively participated in **ENVISION 2026**, a 24-hour Hackathon organized by the IEEE Computer Society, SSN Student Branch Chapter at SSN College of Engineering on 19th & 20th February 2026. Through her strong technical skills and innovative thinking, she successfully engaged in the competitive environment of the event.

As a significant accomplishment, she secured an Internship opportunity at **AYC Company** through this prestigious hackathon. This achievement reflects her dedication, creativity, and technical excellence, bringing pride to the institution and inspiring fellow students to strive for similar accomplishments in the future.



Students' Achievements



Techseva Ideathon

Team Zweikern, comprising Rushda V (VTU25146) and Shada Ali Kuzhikattil (VTU25167) from the Department of Computer Science and Engineering, secured the First Prize of ₹2,00,000 in the Techseva Ideathon – Atmos Solaris Surge 2025 x Eli Lilly, conducted by BITS Pilani, Hyderabad Campus.

Their innovative solution, strong technical skills, and effective teamwork enabled them to excel among participants from leading institutions across the country. The team received guidance from Dr. D. Umanandhini, whose mentorship played a significant role in this accomplishment. This achievement highlights the students' dedication and the department's ongoing commitment to promoting excellence in technology and innovation.



Students' Achievements



Jestally – A Two-Way ISL CS

Students Rushdha V (VTU25136) and Shada Ali Kuzhikattil (VTU25167) from the Department of Computer Science and Engineering showcased their innovation “Jestally: A Two-Way – ISL Communication System” at Horizon – Pitch Perfect, a prestigious competition held at SRM Institute of Science and Technology, Chennai. The team secured the 2nd Prize worth ₹15,000 in the offline event conducted from 30th October to 1st November 2025.

Their project demonstrated impactful technological solutions for inclusive communication, earning appreciation from both judges and participants. The students were guided by Dr. D. Umanandhini, whose mentorship contributed significantly to the project's success. This accomplishment reflects the students' creativity, technical expertise, and commitment to developing socially relevant innovations.



Students' Achievements



NCC Cadet Selected for All India Guard Republic Day 2026

LC Allam Tenith Ashlesh (VTU 27827), II Year – Computer Science and Engineering, has been selected for the prestigious All India Guard for the Republic Day Parade 2026.

As a member of the All India Guard, he will have the honour of saluting the National Flag during the Republic Day celebrations in the presence of the Honourable President of India, Smt. Droupadi Murmu, and the Honourable Prime Minister of India, Shri Narendra Modi.

This achievement reflects the cadet's commitment, leadership, and discipline, and brings distinction to Tamil Nadu and Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.



Students' Achievements



National-Level Competition

VTU24406 – S. Giridharan, VTU24514 – Yasala Kowshika, and VTU24521 – Kathi Lakshmi Nandan, students of the Department of Computer Science & Engineering, have emerged as the **Winners of the CP Cup Challenge – National Round**, representing Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology.

The team was awarded a cash prize of ₹30,000, and as part of their achievement, they will travel to Thailand for the final presentation, with all expenses borne by CP. The team was guided by Dr. R. Kavitha, Supervisor. This accomplishment reflects the students' technical competence, teamwork, and innovative problem-solving skills at the national level.



Students' Achievements



IEEE YESIST 2025

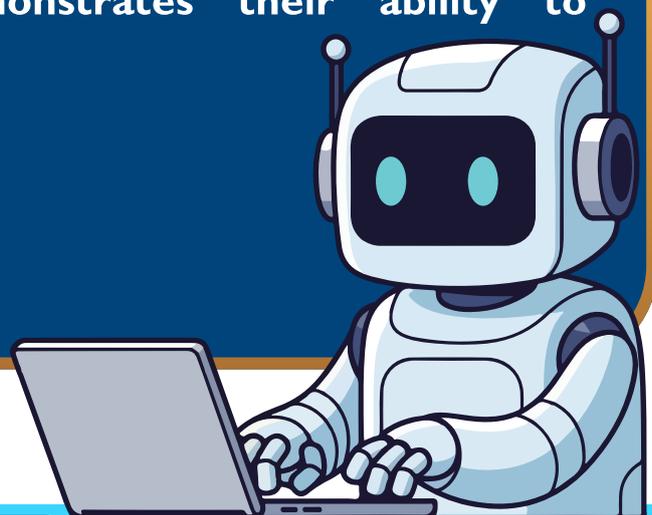
Grand Finale Achievement

Students from Vel Tech University achieved international recognition at the IEEE YESIST 2025 Grand Finale, held on 23rd – 24th August 2025 at Universiti Kebangsaan Malaysia (UKM), Malaysia.

Likhitha Goraju and Keerthi Reddy Thummalapally, guided by their mentors, presented the project “Naari Shakti: AI Empowering Women Through Technology.”

The project earned a place as FINALIST in the Special Track, highlighting its innovative approach and societal impact.

This accomplishment reflects the students' commitment to using Artificial Intelligence for women empowerment and demonstrates their ability to compete at a global level.



Out Reach Activity



Tree Plantation and STEM Activity for Govt Boys Hr. Sec School Students

Venue: MKV Govt Boys Hr. Sec School, Arani, Thiruvallur Dist.

Date: 03-09-2025

Time: 10AM-2PM

As part of social outreach and environmental awareness initiatives, a Tree Plantation and STEM (Science, Technology, Engineering, and Mathematics) activity was organized by Department of Computer Science and Engineering along with Nature Club for the students of the Government Boys School at Arani, Thiruvallur District. The program aimed to foster environmental responsibility while simultaneously inspiring curiosity and innovation among young learners.



HACKATHON

Hackathons have become a vital platform for students to convert innovative ideas into impactful technological solutions. During the academic year 2025–2026, students actively participated in several state and national level hackathons including Atos Srijan 2025 – Atos Global IT Solutions (28 August 2025), DEV SPARK 25 – KPR Institute of Engineering and Technology, Coimbatore (12 September 2025), MAKEATHON'25 – VIT Chennai (17 February 2025), Smartathon – St. Joseph's College of Engineering (27–28 February 2025), CodeVolt'25 – VIT Chennai (3 March 2025), TechXcelerate 2025 – BITS Pilani, Goa (8 February 2025), Pragyan 2025 – Ingenium – NIT Trichy (22 February 2025), Hack Quest (COGNEBULA'26) – Velammal Engineering College (7 February 2026), Hack Fusion 1.0 – Jeppiaar Institute of Technology (25 February 2026), and Hack Your Path 7.0 – Hyderabad Institute of Technology and Management (20 February 2026). These events enabled students to build innovative prototypes, address real-world challenges, and collaborate with peers from institutions across the country, reflecting the department's strong focus on fostering innovation, problem-solving capability, and continuous technical learning.



INTERNSHIP

The internship cycle witnessed strong engagement from industry partners, with DigitIT Technologies Pvt Ltd (24 students) and TechCiti Software Consulting Pvt Ltd (20 students) leading the recruitment drive. Significant participation was also seen from Infinite Connects Media and the SITER – Norway Summer Internship Program with 14 students each, followed by Mark IT Solutions Pvt Ltd (12 students) and Staminal Technologies Pvt Ltd (11 students).

Several organizations including Nano Academia Private Ltd, Sign Solutions, Greensoft Groups, and MATIC also offered multiple internship opportunities across diverse technology domains. In addition, government and research organizations such as National Remote Sensing Centre under Indian Space Research Organisation and the National Informatics Centre provided select internships, giving students valuable exposure to research and public sector initiatives.

The summer internship program further strengthened industry collaboration, led by Infinity Connects Media (18 students) and Digit IT Technologies Pvt Ltd (14 students). Notable participation also came from Sign Solutions (13 students), Staminal Technologies Pvt Ltd (10 students), and Techciti Software and Consulting Pvt Ltd (9 students). Academic and research exposure was further supported by institutions such as National Institute of Technology and the Centre for Development of Advanced Computing



53RD ANNUAL ALUMNI MEET – VEL TECH ALUMNI HEARTBEAT HOMECOMING



What is this Meet?

14th February

2026



The 53rd Annual Alumni Meet – “Vel Tech Alumni Heartbeat Homecoming” was successfully organized by the Vel Tech Alumni Association at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology on 14 February 2026 at the C.K. Naidu Stadium, Vel Tech University, Avadi, Chennai. The event aimed to reconnect alumni with their alma mater, celebrate their achievements, and strengthen professional and personal networks among graduates across different batches.

The program was graced by distinguished dignitaries including Col. Prof. Dr. Vel R. Rangarajan (Founder President & Chancellor), Dr. Sagunthala Rangarajan (Foundress President), Prof. Dr. Rajat Gupta (Vice Chancellor), and D. Kasthuri (Dean I/C – Alumni Relations and Development). Their presence highlighted the institution’s strong commitment to maintaining meaningful connections with its alumni community.

The event also included over 40 games and activities for alumni and families, kids’ competitions, cooking without fire, henna art, shopping stalls, and food courts. The celebration concluded with a DJ night and dinner, creating a joyful opportunity for alumni to reconnect and celebrate together.

Overall, Vel Tech Alumni Heartbeat Homecoming 2026 strengthened alumni engagement and reinforced the global bond between Vel Tech and its alumni community.

PLACEMENTS

Highest Salary Range

(Above 6.75 LPA.)

Amazon
13.2 LPA – 1 student
Prescience
9.36 LPA – 1 student
Deloitte
8.1 LPA – 1 student
BNP Paribas
7.5 LPA – 6 students
Zoho
7 LPA – 1 student
Manthnan Software
7 LPA – 1 student
Digital
7 LPA – 12 students
Selected GenC Next (CTS)
6.75 LPA – 3 students

High Salary Range

(6.1 LPA to 6.75 LPA)

GenC Next Select – Java
6.75 LPA – 1 student
Kaar Technologies
6.5 LPA – 5 students
Power Coder – Select (Virtusa)
6.5 LPA – 2 students
Genpact
6.5 LPA – 12 students
Accenture
6.5 LPA – 10 students
Temenos
6.1 LPA – 10 students
Blackstraw
6 LPA – 1 student
Innowell Engineering
International Pvt Ltd
6 LPA – 2 students

Upper Mid Salary Range

(5 LPA – 6 LPA)

IDP
6 LPA – 1 student
Capgemini
5.75 LPA – 11 students
Merit Data and Technology
5.5 LPA – 1 student
Guidehouse
5.5 LPA – 2 students
Mindsprint
5.2 LPA – 1 student
MuSigma
5 LPA – 1 student
Regular Coder (Virtusa)
5 LPA – 1 student
Kynhood Technologies
5 LPA – 1 student

Mid Salary Range

(4.2 LPA - 4.75 LPA)

Deloitte
4.75 LPA – 10 students
HCL
4.5 LPA – 24 students
Accenture
4.5 LPA – 14 students
Codtech IT Solutions
4.5 LPA – 2 students
Matrimony
4.5 LPA – 1 student
Capgemini
4.25 LPA – 52 students
Atos
4.2 LPA – 22 students
LTIMindtree
4.05 LPA – 38 students

Entry Salary Range

(Around 4 LPA)

Hexaware
4 LPA – 11 students
Selected GenC (CTS)
4 LPA – 16 students
Nyeras
4 LPA – 7 students
Cognizant
4 LPA – 13 students
GenC Select (CTS)
4 LPA – 4 students
Movate Technologies
3.6 LPA – 9 students
Infosys
3.6 LPA – 11 students

Stipend-Based Offers

(stipend)

Infinite Computer Solutions
3.6 LPA – 3 students
Ninja
3.3 LPA – 96 students
Izeon Innovative
3 LPA – 3 students
Infosys Edgeverve
₹20,000/month – 2 students
Infosys Edgeverve
₹10,000/month – 5 students
Tata Electronics
₹10,000/month – 1 student
Innovalley Works
₹8,000/month – 3 students

STUDENT ARTICLE



G. SRIVALLI

VTU26522, III YEAR

CATEGORY: NON-TECHNICAL

Mastering Time Management: A Key to Student Success

Time is one of the most valuable resources in a student's life. Once time is gone, it cannot be regained. Managing time effectively helps reduce stress, improve academic performance, and maintain a healthy balance between studies and personal life.

One simple way to manage time is by creating a to-do list or planner. Writing tasks down helps students organize their work and complete it efficiently. It is also important to prioritize tasks, as not every task is equally important. The 80/20 rule suggests that 20% of efforts often produce 80% of the results, so focusing on key tasks leads to better outcomes.

In today's digital world, distractions such as social media and mobile phones can waste a lot of time. Setting boundaries while studying—like turning off notifications—can improve concentration. Taking short breaks, such as studying for 25 minutes followed by a 5-minute break, also helps maintain focus.

In conclusion, good time management is about balance and discipline. By planning well and focusing on important tasks, students can manage their time effectively and achieve success in both academics and personal life.

STUDENT ARTICLE



VELAGA BHUVANESH

VTU28759, II YEAR

CATEGORY: NON- TECHNICAL - POEM

Romanticist

Nature is humble —
Yet it can make the whole world tremble.
A little squirrel wobbled in fear,
Thinking the end of days was near.
“An earthquake!” she cried in trouble —
But it was only a tree that chose to crumble.

A deer with her babies danced in light,
Across a meadow dry and white.
She saw a glow beyond the wall —
“Sunrise,” she thought, gentle and small.
But it was fire learning to crawl.

Nature cannot speak,
Cannot explain its pain,
Yet when it answers —
It answers insane.

It might be the fire.
It might be the snowfall.
It might be the trembling of all.

And by the lakeside, silent and wide,

Sat a romancist drowning in pride.
Thinking How will be his bride
So beautiful with words, metaphors inside
He gazed at the paper resting beside —
“Oh... I’ve already written the rhythm inside.”
“It’s not me — but my pen that decides
What, where, and when it abides.”

For maybe the fire,
Maybe the snowfall,
Maybe the trembling of all —
All verses of mine written all along.



STUDENT ARTICLE



ROHIT RAJ

VTU25781, III YEAR

CATEGORY: NON- TECHNICAL SHORT STORY

Running Beyond Limits: My 8KM Marathon Experience

Participating in an 8-kilometer marathon was not just about running a distance; it was about challenging my own limits. As a Computer Science student, most of my time is spent sitting in front of a laptop, attending lectures, coding, or preparing for exams. This marathon gave me a refreshing break from routine and reminded me of the importance of physical and mental fitness. The race day started early in the morning with excitement and nervousness. Seeing hundreds of participants gathered at the starting line created an energetic atmosphere. Some were professional runners, some were fitness enthusiasts, and many were students like me who simply wanted to test their endurance. The first few kilometers felt easy because of the adrenaline rush and crowd motivation. However, as the distance increased, fatigue slowly started to build. Around the middle of the race, I realized that the real competition was not with others but with myself. Every step forward required determination, focus, and mental strength. Crossing the finish line after completing 8 kilometers was an unforgettable moment. It was not just about the medal or the timing; it was about the sense of achievement. That experience taught me an important lesson — consistency and perseverance matter more than speed.

This marathon also highlighted the importance of maintaining a healthy lifestyle. Regular exercise improves concentration, reduces stress, and builds discipline — qualities that are equally important in academics and professional life. In conclusion, participating in the 8KM marathon was a journey of self-discovery. It reminded me that growth happens when we step outside our comfort zone. Just like coding problems or academic challenges, running requires patience, practice, and persistence. And once we push past our limits, we realize we are capable of much more than we imagined.

STUDENT ARTICLE



ROHIT RAJ

VTU25781, III YEAR

CATEGORY: NON- TECHNICAL SHORT STORY

1,50,000+ Steps in One Week – A Journey of Discipline and Determination

Introduction

In a world dominated by screens, coding assignments, and academic pressure, maintaining physical fitness can be difficult for students. As a Computer Science student, I challenged myself physically and completed more than 1,50,000 steps in one week.

The Challenge

The goal was simple — to stay active and break the sedentary lifestyle many engineering students face. Completing 1,50,000 steps in 7 days meant walking over 21,000 steps daily, which required consistency, time management, and determination.

Why This Matters for Students

Engineering students often spend long hours sitting in lectures, working on laptops, preparing for exams, and coding assignments. Such inactivity can reduce focus, increase stress, and affect overall health. Regular walking helps improve mental clarity, productivity, stress management, and energy levels.

Lessons Learned

This journey was more than a fitness goal. It taught me that discipline comes from small daily actions, consistency is more important than motivation, and physical fitness can positively influence academic performance.

Conclusion

Completing 1,50,000 steps in one week was not just a fitness achievement but a reminder that students can successfully balance academics and health while building both physical and mental strength.

FACULTY ACHIEVEMENTS

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Dr. Ravikumar S Honored as Session Chair at ICSES 2026

Dr. Ravikumar S, Associate Professor at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, was honored for his distinguished role as Session Chair at the 5th International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES 2026) held on 29–30 January 2026 at St. Joseph’s Institute of Technology, Chennai.

The conference, technically sponsored by IEEE and co-sponsored by IEEE Madras Section, brought together researchers, academicians, and industry experts to share insights on emerging technologies in computing, communication, and smart electrical systems. As a Session Chair, Dr. Ravikumar S guided technical discussions, facilitated paper presentations, and contributed to the smooth conduct of the conference sessions.

This recognition highlights his continued commitment to academic excellence, research collaboration, and contribution to the global research community.



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NPTEL-SWAYAM Domain Certification in Programming

Dr. Kujani T, Faculty Member, School of Computing, has successfully completed the SWAYAM-NPTEL Domain Certification in Programming (Computer Science), awarded in October 2025.

The domain certification was earned through the successful completion of multiple core and elective courses offered by premier institutions such as IIT Madras, IIT Kharagpur, and CMI, covering essential areas of computer science and programming. The certification reflects consistent academic performance and mastery across programming paradigms, data structures, algorithms, databases, and emerging technologies.



FACULTY ARTICLE



DR. K. RAMKUMAR

TTS4061,CSE

CATEGORY: TECHNICAL- ARTIFICIAL INTELLIGENCE

Oil spills pose a severe threat to marine and coastal environments, requiring accurate and timely detection to reduce ecological and economic damage. Synthetic Aperture Radar (SAR) is widely used for marine monitoring due to its ability to capture ocean surface features under all-weather and day–night conditions. However, speckle noise and look-alike phenomena in SAR imagery significantly hinder reliable spill identification. To address these challenges, this study introduces an explainable deep learning framework comprising three quantitatively defined components that work together to improve detection accuracy. First, a denoising autoencoder with two convolutional layers (16 and 32 filters) and two transposed convolution layers is used to suppress SAR-specific speckle noise, improving downstream feature clarity and enhancing segmentation accuracy by stabilizing texture representation. Second, a U-Net++ segmentation network with nested skip connections and three encoder–decoder stages is employed to localize potential spill regions, providing structured spatial priors that guide the classifier toward more discriminative regions. Third, the ViR-SC ensemble classifier, which integrates five independently trained models—CNN, ResNet18, Vision Transformer, Support Vector Machine, and Random Forest—aggregates local, hierarchical, and global feature cues to improve classification robustness. The ensemble voting mechanism strengthens sensitivity to subtle slick structures while reducing errors arising from individual model biases. To ensure interpretability, Grad-CAM highlights class-discriminative spatial regions for CNN-based models, while SHAP quantifies feature importance for classical machine learning components. Experiments were conducted on a publicly available Sentinel-1 SAR dataset containing 5,630 labeled image patches (1905 oil, 3725 non- oil). Among single models, the Vision Transformer achieved 98.00% accuracy, whereas the proposed ViR-SC ensemble improved performance to 98.45%, demonstrating measurable gains from component integration. Explainability results further confirm that model decisions correspond to actual oil spill structures in the imagery.

PUBLICATIONS

The Department of Computer Science and Engineering proudly announces 24 QI-indexed journal publications in globally reputed journals including Scientific Reports, Expert Systems with Applications, Results in Engineering, Vehicular Communications, Trends in Food Science & Technology, Journal of Big Data, Microscopy Research and Technique, and Computers & Electrical Engineering. The research contributions span emerging domains such as artificial intelligence, cybersecurity, blockchain, IoT, wireless sensor networks, healthcare analytics, UAV optimization, smart agriculture, medical image analysis, and sustainable energy systems. These high-impact publications reflect the department's strong research ecosystem, interdisciplinary innovation, and sustained commitment to publishing in top-tier international journals.

S.No	Faculty Name	Journal Title	Quartile
1	Dr. Amutha. S	VEHICULAR COMMUNICATIONS	Q1
2	Dr. Bhagyalakshmi. A	SCIENTIFIC REPORTS	Q1
3	Dr. Dhinakaran. D	RESULTS IN ENGINEERING	Q1
4		EXPERT SYSTEMS WITH APPLICATIONS	Q1
5		RESULTS IN ENGINEERING	Q1
6	Dr. Jeevanantham. V	SCIENTIFIC REPORTS	Q1
7	Dr. Jothiaruna.N	TRENDS IN FOOD SCIENCE & TECHNOLOGY	Q1
8	Dr. Kartheesan L	SCIENTIFIC REPORTS	Q1
9	Dr. Kishore Kumar. K	SCIENTIFIC REPORTS	Q1
10	Dr. N.K. Senthil Kumar	SCIENTIFIC REPORTS	Q1
11		SCIENTIFIC REPORTS	Q1
12	Dr. Pushpa Rani. S	SCIENTIFIC REPORTS	Q1

PUBLICATIONS

S.No	Faculty Name	Journal Title	Quartile
13	Dr. R. Srinivasan	EXPERT SYSTEMS WITH APPLICATIONS	Q1
14	Dr. Rajalakshmi. N.R	JOURNAL OF BIG DATA	Q1
15	Dr. Rajathi. K	RESULTS IN ENGINEERING	Q1
16	Dr. Rajesh. R	EXPERT SYSTEMS WITH APPLICATIONS	Q1
17	Dr. Ramesh. P.S	SCIENTIFIC REPORTS	Q1
18	Dr. S Durai	SCIENTIFIC REPORTS	Q1
19	Dr. S Ravikumar	MICROSCOPY RESEARCH AND TECHNIQUE	Q1
20	Dr. Sathya.V	SCIENTIFIC REPORTS	Q1
21	Dr. Suguna. R	SCIENTIFIC REPORTS	Q1
22	Dr. Prasanth. A	COMPUTERS & ELECTRICAL ENGINEERING	Q1
23	Dr. Vinoth Kumar. E. S	SCIENTIFIC REPORTS	Q1
24	Dr. Amu.D	SCIENTIFIC REPORTS	Q1

PUBLICATIONS

The Department of Computer Science and Engineering is pleased to announce the publication of 25 Q2-indexed journal articles by its faculty members in reputed international journals such as PLASMONICS, IEEE Access, Sensors, Applied Sciences-Basel, Biomedical Signal Processing and Control, China Communications, and Environment Development and Sustainability. The research spans critical domains including healthcare analytics, cancer diagnosis, federated learning, IoT security, sustainable agriculture, deep learning, optimization techniques, and intelligent data analytics. These scholarly contributions highlight the department's continued commitment to impactful research, interdisciplinary innovation, and global academic excellence.

S.No	Faculty Name	Journal Title	Quartile
1	Dr. Venketbabu.T	PLASMONICS	Q2
2	Dr. Arunkumar. M. S	INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE AND ENGINEERING MANAGEMENT	Q2
3	Dr. Dhinakaran. D	METHODSX	Q2
4		METHODSX	Q2
5		CHINA COMMUNICATIONS	Q2
6		METHODSX	Q2
7		METHODSX	Q2
8		METHODSX	Q2
9		METHODSX	Q2
10	Dr. Edwin Raja.S	EARTH SCIENCE INFORMATICS	Q2

PUBLICATIONS

S.No	Faculty Name	Journal Title	Quartile
14	Dr. Prabakaran. G	METHODSX	Q2
15	Dr. Prasanth. A	BIOMEDICAL SIGNAL PROCESSING AND CONTROL	Q2
16	Dr. S Ravikumar	BIOMEDICAL SIGNAL PROCESSING AND CONTROL	Q2
17	Dr. Sajeew Ram. A	INTERNATIONAL JOURNAL OF BIO-INSPIRED COMPUTATION	Q2
18	Dr. Saravanan S	ENVIRONMENT DEVELOPMENT AND SUSTAINABILITY	Q2
19	Dr. Sathya.V	DISCOVER SUSTAINABILITY	Q2
20	Dr. Selvin Ebenezer. S	PERVASIVE AND MOBILE COMPUTING	Q2
21	Dr. V.Dhilip Kumar	IEEE ACCESS	Q2
22	Govindharaj.I	METHODSX	Q2
23		METHODSX	Q2
24		METHODSX	Q2
25		METHODSX	Q2

OVERALL RESEARCH PUBLICATION HIGHLIGHTS – 2025

In 2025, the Department of Computer Science and Engineering (CSE) demonstrated outstanding research productivity with 203 Scopus-indexed journal articles and 391 Scopus-indexed conference publications. The department's contributions span cutting-edge domains including artificial intelligence, cybersecurity, IoT, healthcare analytics, wireless sensor networks, blockchain, and sustainable computing. Several publications appeared in high-impact international journals and reputed global conferences, reinforcing CSE's strong research culture and international academic visibility.

A Few Best Scopus Journal Articles

S.No	Faculty Name	Article Title	Journal
1	Dr. Amutha. S	Geometric Optimisation of UAV Trajectories in Uncertain Environments	<i>Vehicular Communications</i>
2	Dr. Bhagyalakshmi. A	SVM Directed Machine Learning Classifier for Human Action Recognition	<i>Scientific Reports</i>
3	Dr. Dhinakaran. D	Adaptive Distributed Honeypot Detection Network for Cybersecurity	<i>Results in Engineering</i>
4	Dr. Rajalakshmi. N.R	Hybrid Ensemble ML Model for Detecting Advanced Persistent Threats	<i>Journal of Big Data</i>
5	Dr. S Ravikumar	Transfer Learning for Endometrial Disease Classification	<i>Microscopy Research and Technique</i>

OVERALL RESEARCH PUBLICATION HIGHLIGHTS – 2025

A Few Best Scopus Conference Paper

S.No	Faculty Name	Paper Title	Conference
1	Ganesan. R	Digital Evidence Management: Modern Techniques	International Conference on Electronics and Communication Systems
2	Dr. D. Kanagajothi	AI in E-Commerce: Transforming Customer Interaction	International Conference for Emerging Technology 2025
3	Dr. Boopathy. G	Harnessing AI for Sustainable Energy Systems	International Conference on Sustainable AI Systems
4	Dr. Prasanth. A	Intelligent IoT-based Optimization Framework	International Conference on Computing & Networking
5	Dr. Selvin Ebenezer. S	Secure MANET Routing using Deep Learning	International Conference on Advanced Communication Technologies

MEMORANDA OF UNDERSTANDING

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The Vel Tech community is pleased to announce a series of strategic Memoranda of Understanding (MOUs) signed with leading industry partners during 2025 to foster academic-industry collaboration, enhance student exposure, and create pathways for internship, research, and employability opportunities. Key MOUs include collaborations with Skillmate, Digit IT, Rasa.AI Labs, Prompt Infotech, Rex Cyber Solutions Pvt. Ltd., VY Systems Pvt. Ltd., Iyarkai Tech Lab Pvt. Ltd., Ethical Intelligent Technologies, SITER Academy, and Exnora International Foundation, among others. These partnerships aim to integrate industry-relevant training into the curriculum, facilitate hands-on project work, enable joint research initiatives, and provide direct placements and certification pathways for Vel Tech students. A special highlight is the MOU with Ashok Leyland, wherein Vel Tech University and Ashok Leyland joined hands to promote research in autonomous vehicles, advanced manufacturing systems, and skill development programs in automotive technologies. Together, these MOUs strengthen the university's industry linkages, support experiential learning, and significantly enhance employability prospects for students.

S.No	Industry Partner	Year
1	Skillmate	2025
2	Digit IT	2025
3	Rasa.AI Labs	2025
4	Prompt Infotech	2025
5	Rex Cyber Solutions Pvt Ltd	2025
6	Edunet Foundation	2024
7	VY Systems Pvt Ltd	2025
8	8Queens Software Technologies Pvt Ltd	2025
9	Codeship Pvt Ltd	2025
10	Iyarkai Tech Lab Pvt Ltd	2025
11	Ethical Intelligent Technologies	2025
12	SITER Academy	2025
13	Exnora International Foundation	2025
14	Crystal Delta Pty Ltd	2025
15	Ashok Leyland	2025

MEMORANDA OF UNDERSTANDING



Technology & Industry Partners:
oAshok Leyland: Signed on 6th August 2025 , through the Office of Industry Relations



Crystal Delta: Partnered for AI-driven innovation and startup enablement, witnessed by delegates from the Victorian Government Trade Department, Australia on 16th July 2025



Nasscom:
Signed on 7th October 2025



VY Systems:
Signed on 16th September 2025

MEMORANDA OF UNDERSTANDING



Governors State University, USA: International collaboration signed on 6th October 2025



Woldia University, Ethiopia: Signed on 17th September 2025, to strengthen global academic ties.



IIIT Manipur: Vel Tech Signed Memorandum of Understanding (MoU) with Indian Institute of Technology (IIIT) Manipur to foster collaborative research, student exchange, academic development, and joint initiatives on 30th August 2025



EC-Council: school of computing and the department of cyber security. An mou was signed 6th August 2025, between EC-council and Vel tech for establishment of academic partnership

MEMORANDA OF UNDERSTANDING



The signing of a Memorandum of Understanding (MoU) with Necurity Solutions Network Security Pvt. Ltd. for the School of Computing. This collaboration is focused on equipping our students with practical knowledge and hands-on experience in network security and its operations.



Vel Tech University signed an MoU with Edunet Foundation and launched the Green and AI Skills Program under the CSR initiative of Shell. The program, conducted from 18–24 December, engaged 187 B.Tech 3rd year School of Computing students in learning Green Skilling, Python, Machine Learning, Generative AI, and AI for sustainability.



The Memorandum of Understanding (MoU) between 8Queens Software Technologies Pvt Ltd and Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology on Sept 2025 aims to bridge industry-academia gaps, fostering innovation, and enhancing student learning



iYarKai Tech Lab Pvt. Ltd. signed an MoU with Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology on 22nd September 2025 to strengthen industry-academia collaboration, focusing on skill-based training, internships, entrepreneurship development, and joint research initiatives.

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Dr. Poovayar Priya M.
Assistant Professor/CSE



Dr. Bhavani R.
Associate Professor(SG)/CSE



Dr. V. Murugan
Assistant Professor (SG)/CSE

STUDENT COORDINATORS



S VIKAS
VTU24556



S SANDHYA
VTU29351



ABHINAYA E V
VTU28326



SANDEEP KUMAR S
VTU27884