Vel Tech
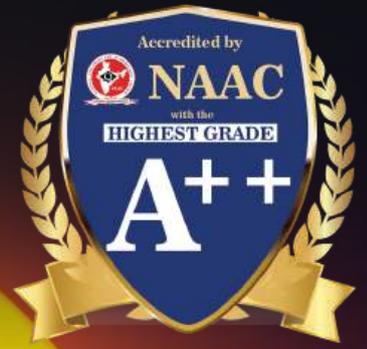## Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Accredited by
NAAC
with the
HIGHEST GRADE
A++

SCHOOL OF COMPUTING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER

2023 JULY - 2023 DEC / Volume 09 / Issue 1

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: Formulate, solve and analyze Computer Science and Engineering problems using necessary mathematical, Scientific and engineering fundamentals.

PEO2: Demonstrate the impact of cutting-edge technologies to accomplish social and professional responsibilities.

PEO3: Demonstrate critical thinking, communication, teamwork, leadership skills and ethical behavior necessary to function productively and professionally.

PEO4: Pursue higher education at reputed institution in India and abroad, work in product development companies and engage in lifelong learning.

PROGRAM OUTCOMES (POs)

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: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The Engineer and Society: 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.

PO7: 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.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

PO9: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: 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.

PO11: 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.

PO12: Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

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.

NEWS LETTER

The Department of Computer Science and Engineering (CSE), established in 1997, has evolved from a modest intake of 250 students to a vibrant academic community of 3505 students. The Department is equipped with state-of-the-art laboratories and is supported by a highly qualified and dedicated faculty team comprising 22 Professors, 44 Associate Professors, and 165 Assistant Professors. Students actively participate in professional bodies such as CSI, IEEE-CS, IEEE-PCS, IEEE-WIE, ACM, and ISTE, enhancing their technical and professional competencies. The Department regularly organizes technical events, workshops, seminars, hackathons, and coding competitions, and its students consistently demonstrate excellence through notable academic and extracurricular achievements at regional, national, and international levels. The Department maintains an outstanding placement record, with students recruited by leading multinational companies including Amazon, Cisco, Accenture, Capgemini, Virtusa, Wipro, ZOHO, KAAR Technologies, TCS, Microsoft, Infosys, Cognizant, HP, and Verizon. Faculty and students actively contribute to high-quality research publications in reputed journals and conferences, strengthening the Department's research culture. Additionally, the Department publishes two issues of its newsletter every year, showcasing technical events, student achievements, Student placement highlights, and research contributions. For further details, visit www.veltech.edu.in/cse.

INSTITUTION LEADERSHIPS

Col. Prof. Vel. Dr. R. Rangarajan
B.E. (Elec), B.E. (Mech), M.S. (Auto), D.Sc.,
Founder President and Chancellor

Dr. Sagunthala Rangarajan
MBBS
Foundress President

Mrs. Rangarajan Mahalakshmi Kishore
B.Tech, M.Tech, MBA(UK),
Chairperson and Managing Trustee

Prof. Dr. S. Salivahanan
B.E, M.E, Ph.D.
Vice-Chancellor

Prof. Dr. V. Srinivasa Rao
B.E, M.E, Ph.D.
Professor
Dean - School of Computing

EDITOR IN CHIEF

Dr. V. Srinivasa Rao
Dean - School of Computing

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HoD - CSE

Mr.Manivannan D
Assistant Professor - CSE

STUDENT EDITORS

PADIGAPATI SREEYA
VTU17715

KONDIPARTHI HRUSHIKESH
VTU16873

DAPPELLA NAGA VINAY
VTU16891

MUMMAKA VIHARI
VTU18414

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Prestigious Awards Ceremony (24 June 2023):

Held in the presence of eminent Chief Guest, Prof. B. S. Murthy, Director, IIT Hyderabad. The ceremony felicitated outstanding faculty contributions across research publications, funded projects, industry consultancies, and patents. The event aimed to inspire excellence and drive academic innovation through visible recognition.

Accenture Pre-Placement Talk (24 July 2023)

Coordinator: Dr. V. Srinivasa Rao
Accenture's team presented recruitment patterns, corporate culture, and career pathways. Hundreds gained practical tips for interviews and resume building. Q&A sessions enhanced student confidence and placement readiness.

CSE–PwC Acceleration Centres – Cyber Roadshow (27 July 2023):

Coordinator: Dr. V. Srinivasa Rao (Dean, SoC)

PwC experts Mr. Sathya Duvvuri and Ms. Megha shared insights on cybersecurity trends and defense strategies. The session engaged students and faculty with practical threat management and career advice, strengthening academia-industry collaboration.

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Applied Artificial Intelligence and Intelligent Systems Short Course (1–5 September 2023)

Prof. Dr. Keshav Dahal from the University of the West of Scotland led this week-long course on AI and intelligent systems. Sessions included machine learning, neural networks, and real-world AI applications. The short course enhanced participants' understanding of advanced AI techniques and fostered international academic collaboration for students and faculty.

Induction-cum-Acquaintance Program (6 August 2023)

New engineering students were introduced to academic structures, campus resources, disciplinary ethics, and support services. Faculty mentors and senior students facilitated orientation activities to help students integrate smoothly.

FDP on Microsoft Power BI (21–25 August 2023)

Vel Tech organized a five-day Faculty Development Program on Microsoft Power BI, enhancing data analytics and visualization skills. Through hands-on workshops, faculty learned dashboard creation, data modeling, and report generation. This program empowered them to integrate business intelligence tools into curricula and research, better preparing students to meet data-driven industry demands.

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Wisdom Wizards Technical Contest (1 September 2023)

Coordinated by Dr. A. Bhagyalakshmi and Dr. K. Seethalakshmi, the Wisdom Wizards contest challenged students' critical thinking and problem-solving skills. Held on 1 September, the event encouraged innovation and teamwork as students tackled complex technical puzzles, showcasing their analytical aptitude in a competitive, stimulating environment.

CSE Project Model Room (4 September 2023)

On 4th September, students presented projects in the CSE Project Model Room focusing on sorting algorithms like Merge Sort and Quick Sort. The initiative, supported by faculty mentors, bridged theory and practice by exploring algorithm design and computational efficiencies, enriching participants' understanding through hands-on model demonstrations.

ERP with QAD Application Session (9 September 2023)

Dr. V. Srinivasa Rao, Dean of the School of Computing, convened a session on ERP with focus on QAD Application. Mrs. S. Pandikumar from Adient Pvt Ltd shared insights on ERP's role in business process optimization. Attendees learned how ERP systems streamline operations, illustrating real-world benefits of integrating digital solutions in enterprises.

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CSE Corporate Meeting (12 September 2023)

Industry and academic leaders convened for the CSE Corporate Meeting to discuss curriculum enhancement and foster partnerships. The session focused on updating academic programs to align with industry trends, research collaboration, and boosting student employability. This collaboration aimed to produce graduates ready for evolving technological challenges.

AI with No-Code Environments Workshop (14 September 2023)

Participants explored AI development using no-code platforms in a workshop introducing accessible AI tools that require minimal programming. The event emphasized rapid prototyping and inclusion, enabling individuals from diverse backgrounds to engage with artificial intelligence, thereby promoting innovation and technology democratization.

Coding Champion Contest (15 September 2023)

Under the convenorship of Dr. V. Srinivasa Rao and coordinated by Dr. P. Arivubrakan, the Coding Champion contest challenged participants to solve complex programming problems. The competition fostered algorithmic thinking and technical proficiency, enhancing students' coding skills and competitive spirit.

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Prakalpaz Project Contest '23 (20 September 2023)

Led by Dr. M. S. Muralidhar with coordination by Dr. K. Kishore Kumar and Ms. Shyamala Kumari C., this project contest showcased student innovations across domains like IoT and automation. Faculty feedback nurtured collaborative learning and inspired research-based problem-solving.

Next Generation Cloud Platforms Workshop (22 September 2023)

This workshop presented by Mr. Kumaresh Manickam covered advanced cloud architectures, microservices, and serverless computing. The sessions emphasized practical deployment models and emerging technologies shaping digital transformation.

Oracle PL/SQL Workshop (23 September 2023)

In a workshop convened by Dr. V. Srinivasa Rao, industry expert Ms. Ulineja T introduced participants to Oracle PL/SQL programming. The session covered real-world scenarios, database optimization, and transaction handling to increase practical database management competence.

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Cybersecurity Threat Defense & Incident Handling Short Course
(25–30 September 2023)

Prof. Dr. Sundrasen Perumal conducted a week-long cybersecurity course focused on threat detection, incident response, and forensic techniques. The program enhanced participants' capabilities in critical security frameworks through lectures and hands-on activities.

Cloud, Data Center & Automation Workshop
(5 October 2023)

Ms. Dhivisha Murali from Accenture spoke on cloud and data center advances. Sessions included automation strategies enhancing operational reliability and scalability in IT infrastructures.

PROTIYOGITA-23: Idea Contest
(6 October 2023)

Coordinated by Mr. R. Manohar and Mr. K. Kishore Kumar, this interdisciplinary idea contest challenged students to propose tech solutions addressing real-world problems, encouraging creative and strategic thinking.

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Quantum Computing & Data Analytics Workshop
(13–14 October 2023)

Under the convenorship of Dr. V. Srinivasa Rao, Dr. D. K. Ragavan and Dr. S. Venkata Subramanian delivered insights into quantum optimization and data analytics. The workshop provided practical exposure to emerging computational methods and quantum algorithms.

Cybersecurity Essentials Workshop
(13 October 2023)

Led by Dr. S. Vani and Mr. S. Vinoth Kumar, this IEEE-organized workshop introduced participants to essential cybersecurity principles, focusing on emerging threats and foundational defense strategies critical for the next generation of security professionals.

AI/ML in Automotive Industry Workshop
(14 October 2023)

Coordinated by Mr. R. Manohar and Mr. K. Kishore Kumar, this interdisciplinary idea contest challenged students to propose tech solutions addressing real-world problems, encouraging creative and strategic thinking.

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Gumption Panache Symposium
(14 October 2023)

Mrs. Hannah S. coordinated this dynamic symposium blending workshops, competitions, and keynote talks that fostered innovation, leadership, and problem-solving skills among students, promoting an entrepreneurial mindset.

The Department of Computer Science and Engineering unfurled its flagship conclave "Gumption Panache"on 14 October 2023, transforming the campus into a crucibleof entrepreneurial nerve and technological flair. Orchestrated with meticulous finesse by Mrs. Hannah S., Assistant Professor (CSE), the one-day forumchampioned inventive thinking, decisive leadership and data-driven problem-solving—hallmarks encapsulated by its very title.

AI/ML in Automotive Industry Workshop
(14 October 2023)

Atos experts led multi-track sessions on application modernization, networking, digital workplaces, and mainframes. Participants received industry insights and live demonstrations strengthening practical IT knowledge.
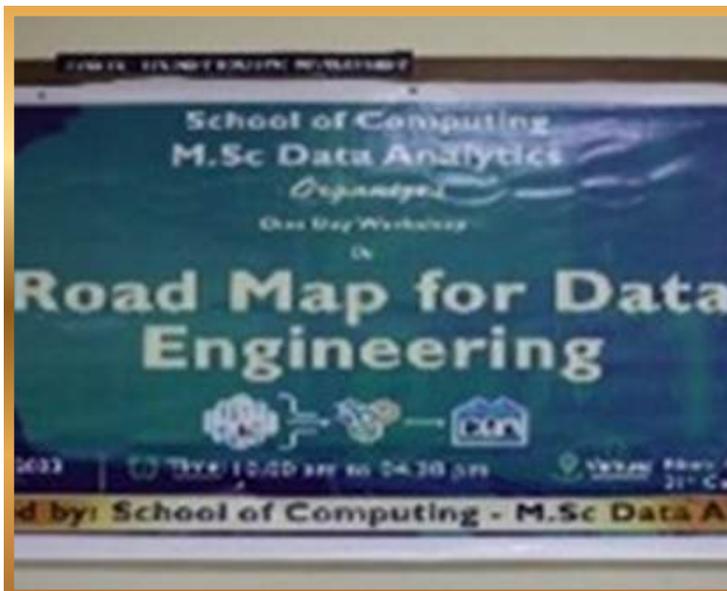
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Road Map for Data Engineering Workshop (26 October 2023)

Dr. S. Lalitha and Mrs. N. Gnanabharathi led sessions on data ingestion, ETL pipelines, cloud integration, and governance, imparting best practices to develop scalable data engineering skills aligned with industry needs.

SAMOVIVAH 2023 Group Discussion (9 November 2023)

Faculty from the M.Sc. Data Analytics program coordinated this event where students analyzed topics from generative AI to quantum-safe cryptography, sharpening technical discussion and critical thinking skills.

Faculty Development Program on Python Programming (21 November 2023)

Faculty developed Python coding and application skills through hands-on labs and practical examples, enhancing programming education for undergraduate and postgraduate students.

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Quantum Computing Faculty Program (15 December 2023)

Dr. V. SrinivasaRao convened a program led by Dr. Bala Patel on hybrid quantum-classical optimization algorithms and Qiskit, preparing faculty to advance quantum computing research and teaching.

Machine Learning & Modern Cloud Platforms Masterclass (19 December 2023)

Industry expertsG.B. Pon Manivannan and Mr. Kumaresh Mani, coordinated by the Faculty Professional Development committee, delivered sessions on applied machine learning and cloud-native deployment strategies.

TechSpire on Collage (28 December 2023)

Ms. S. Suganya and Ms. B. Lakshmi coordinated an event where students visually interpreted complex data science concepts through collages,enhancing comprehension and communication skills.

Faculty Research Publications

Between April 2023 and December 2023, the department witnessed a surge in high-impact research publications across top-tier international journals, conferences, and book chapters. Faculty members have contributed to globally recognized publishers including Springer, Elsevier, MDPI, Taylor & Francis, Inderscience, IOS Press, World Scientific, and IEEE.

Highlights of Published Work:

- Over 120 publications during this period, spanning areas like Artificial Intelligence, IoT, Healthcare Analytics, Cybersecurity, Blockchain, Machine Learning, Cloud Computing, and Smart Agriculture.

- Significant interdisciplinary research in deep learning applications for medical diagnostics, traffic prediction systems, intrusion detection models, emotion analysis, and smart city frameworks.

- Multiple book chapters were published through IGI Global, Nova Science Publishers, CRC Press, and LAMBERT Academic Publishing.

Top Publishers Represented:

- Springer and Elsevier emerged as the top publishers in terms of volume and citation impact, closely followed by IEEE, MDPI, and Taylor & Francis.

Faculty Research Publications

- **Dr. D. Rajesh** authored a journal paper titled"A Proficient Obtrusion Recognition Clustered Mechanism for Malicious Sensor Nodes in a Mobile Wireless Sensor Network,"published in July 2023 in The Research Publication.
  DOI: 10.51983/ijiss-2023.13.2.3793

- **Dr. N. Malarvizhi** published a journal article titled"A Secured Multi Agent Architecture for Grid Computing,"in July 2023 via Auricle Global Society of Education and Research.
  DOI: 10.17762/ijritcc.v11i7s.7033

- **Dr. M. Kavitha** published "A Word Embeddings based Approach for Author Profiling: Gender and Age Prediction," in July 2023 via Auricle Global Society of Education and Research.
  DOI: 10.17762/ijritcc.v11i7s.6996

- **Dr. M. Shyamala Devi** authored "Novel ANOVA-Statistic-Reduced Deep Fully Connected Neural Network for the Damage Grade Prediction of Post-Earthquake Buildings," published in July 2023 (Vol. 23, Issue 14, MDPI).
  DOI: 10.3390/s23146439

- **Dr. R. Aruna** Published A conference paper titled "Statistic Significant Feature Importance Regressor Based Estimation of Compound Aqueous Solubility," was published in July 2023 in the American Institute of Physics Inc.
  DOI: 10.1063/5.0154392

- **Dr. S. Jagan** published "A Meta-Classification Model for Optimized ZBot Malware Prediction Using Learning Algorithms," in July 2023 (Vol. 11, Issue 13, MDPI).
  DOI: 10.3390/math11132840

- **Dr. S. Ravikumar** authored "Human activity recognition in WBAN using ensemble model," published in July 2023 (Vol. 19, Issue 4, Emerald Group Holdings Ltd.).
  DOI: 10.1108/IJPCC-12-2021-0314.

- **Dr. P. S. Ramesh** published "Contextual Cluster-Based Glow-Worm Swarm Optimization (GSO) Coupled Wireless Sensor Networks for Smart Cities," in July 2023 (Vol. 23, Issue 14, MDPI).
  DOI: 10.3390/s23146639

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Faculty Research Publications

- **Dr. J. Visumathi** contributed "A Shearlet-Based Second Order System for Classifying Oral Cancer: An Analysis of Histopathological Images," published in August 2023 (Vol. 40, Issue 4).
  DOI: 10.18280/ts.400445

- **Dr. A. Bhagyalakshmi** contributed a book chapter titled"Integrating Machine Learning and AI for Improved Hydrological Modeling and Water Resource Management,"published in August 2023 by IGI Global. DOI: 10.4018/978-1-6684-6791-6.ch003

- **Dr. A. Peter Soosai Anandaraj** contributed a book chapter titled"The Use of Biomaterials in the Field of Cardiology on the Perspectives and Possibilities of Creating a Permanent Total Artificial Heart: Artificial Organs," published in August 2023 by IGI Global.
  DOI: 10.4018/978-1-6684-7412-9.ch017

- **Dr. D. Dhinakaran** authored "Leveraging Semi-Supervised Graph Learning for Enhanced Diabetic Retinopathy Detection," published in August 2023.
  DOI: 10.14445/23488549/IJECE-V10I8P102

- **Dr. G. Anurekha** published "Autism Gene Subset Selection from Microarray Data – A Wrapper Approach," in August 2023.
  DOI: 10.56042/jsir.v82i08.3398

- **Dr. M. Prabha** published "An emerging approach towards intention to quit among IT employees" in August 2023.
  DOI: 10.1504/IJENM.2023.132967

- **Dr. G. Tamilmani** authored "Gray wolf optimization and image enhancement with NLM Algorithm for multimodal medical fusion imaging system," published in August 2023.
  DOI: 10.1016/j.bspc.2023.104950

- **Dr. G. R. Kanagachidam Baresan** published "English-Afaan Oromo Machine Translation Using Deep Attention Neural Network" in September 2023 (Vol. 32, Issue 3).
  DOI: 10.3103/S1060992X23030049

- **Dr. E. Kannan** published "Analysis on Mental Stress of Professionals and Pregnant Women Using Machine Learning Techniques" in September 2023 (Vol. 23, Issue 5).
  DOI: 10.1142/S0219467823500389

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Staff Achievements
Events organized by Staff members in other colleges

- Dr. N. R. Rajalakshmi took part in a "Tech Showcase" event on 14 July 2023 in Chennai, organized by UmagineChennai. The event highlighted emerging technologies and innovations, providing a platformfor knowledge exchangeand networking among academic and industry professionals.

- Dr. M. Arun led a workshop titled "How to Write and Publish Research Papers in Scopus/WOS/ESCI/UGC Indexed Journals" on 29 July 2023 at Jeppiar College of Arts and Science, Chennai. The session guided researchers on publication processes and strategies for high-impact scholarly dissemination.

- Dr. V. Dhilip Kumar participated in a workshop titled "Applications on IoT towards Machine Learning" held on 11 August 2023 in Chennai at the Saveetha Institute of Science and Technologies. The event focused on integrating IoT technologies with machine learning applications, showcasing cutting-edge researchand practical insights.

- Dr. T. Kamaleshwar engaged in multiple events, including "Cyber Security and its Applications" on 6 October 2023 at Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College in Chennai, and "Threats and Defense Strategies in Cyber Security" on 13 October 2023 hosted by CMR College of Engineering & Technology in Hyderabad. These events emphasized current security threats and defense mechanisms relevant to both academia and industry.

- Dr. S. Vinoth Kumar presented on "Compiler Backend Design for Creative Entrepreneurs" on 6 October 2023 at K.S. RangasamyCollege of Technology in Tiruchengode. This workshop targeted enhancing entrepreneurial skills through technicalexpertise in compilerdesign and development.

- Dr. S. Sridevi contributed to the event "Smart Health and Cyber Security: Protect, Detect and Connect," held from 15 to 16 December 2023 at Apollo College of Nursing, Chennai. The program addressed challenges in healthcare cybersecurity, focusing on protecting patient data and advancing smart health technologies.

- Dr. Kishore Kumar coordinated a Faculty Development Program on "Planning & Technical Design: Developing a Plan of Action on How to Go About Developing a Prototype" on 20 December 2023 at Saveetha Institute of Medical and Technical Sciences Engineering, Chennai. The programfocused on structured approaches and designthinking for prototype development.

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Faculty Achievements
Events organized by Faculty members in other colleges

- Dr. Kishore Kumar coordinated a Faculty Development Program on "Planning & Technical Design: Developing a Plan of Action on How to Go About Developing a Prototype" on 20 December 2023 at Saveetha Institute of Medical and Technical Sciences Engineering, Chennai. The programfocused on structured approaches and designthinking for prototype development.
- Throughout this period, facultymembers from the School of Computing, includingDr. V. Dhilip Kumar, Dr. N. R. Rajalakshmi, Dr. S. Vinoth Kumar, Dr. S. Sridevi, Dr. T. Kamaleshwar, Dr.
- M. Arun, and Dr. Kishore Kumar, actively engaged in various academic events. Their involvement in workshops, conferences, and faculty development programs demonstrates the department's strong commitment to continuous learning, expertise enhancement, and knowledge sharing across disciplines such as IoT, cybersecurity, compiler design, research publication, and health technologies.
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- Dr. M. Arun Anoop authored a book titled "General AwarenessCourse: Informatics for Computer Applications," published in 2023 by Shanlax Publishers, Madurai (ISBN 978-81- 19337-36-1).

Student's Acheivements

List of Faculty Members Involved in Student Innovative Projects

- Dr. K. AntonyKumar contributed to the Cognizantcafe activity event conducted on 4 August 2023 at Cognizant, Chennai, facilitating industry-linked practical exposure and skill development for participating students.

- Dr. P. Rajesh participated in the Cognizant cafe activity held on 4 August 2023 in Chennai at Cognizant. This event provided an opportunity for students to engage with industry professionals and gain real-world exposure in a corporate setting. More details about Cognizant can be found in their 2023 annual report available online.

- Dr. T. Kujani represented in the TATA Crucible 2023 event held on 19 August 2023, a highly competitive platform that challenged participants on business and technical acumen in alignment with industrystandards.

- Dr. K. Nithya was involved in multiple sessions of the Coding Champions competition on 15 September 2023 at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai,guiding students in algorithmic competitions and enhancing their coding abilities.

- Dr. A. Peter Soosai Anandaraj mentoredstudents during the Coding Championscontest held on 15 September 2023 at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai,helping them enhancetheir competitive programming skills.

- Dr. N. Vijayaraj participated in a Project Presentation event held on 8 September 2023 at Kumaraguru College of Technology, Coimbatore. The event, TechCon Project Presentation 2.0, provided a platform for showcasing innovative projects in themes such as IoT for smart cities, smart grids, cybersecurity, and wireless sensor networks. More details can be found at the event website

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Student's Acheivements
List of Faculty Members Involved in Student Innovative Projects

- Dr. D. Femi took part in TECHGIUM at IIT Kanpur on 26 December 2023, an innovation contest encouraging creative technology solutions and research among student participants.
- Dr. R. Rajesh supervised participants in the Prerna General Quiz 2023 held on 19 October 2023 at IIM Mumbai, which tested student knowledge across various domains, fostering a culture of continuous learning and intellectual excellence.
- Dr. P. Rajesh participated in the Cognizant cafe activity held on 4 August 2023 in Chennai at Cognizant. This event provided an opportunity for students to engage with industry professionals and gain real-world exposure in a corporate setting. More details about Cognizant can be found in their 2023 annual report available online.
- Dr. A. Prathik mentored students in the Coding Champions contest held on 15 September 2023 at Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai. The competition focused on enhancing students' algorithmic skills and coding proficiency.
- Dr. M. Manikandan actively contributed to TECHNOVANZA 2023 on 7 October 2023 at Saveetha School of Engineering. This event featured various technical competitions and workshops aimed at fostering innovation and technical skills among students.
- Dr. R. Manivannan was involved in the Coding Champions contest on 15 September 2023 at Vel Tech Rangarajan Dr. Sagunthala R&D Institute. His mentorship supported student development in competitive programming.
- Mrs. V. Usha participated in TECHGIUM held on 26 December 2023 at IIT Kanpur. TECHGIUM is a national-level technical fest that promotes research, innovation, and collaboration among students.
- Mrs. S. Thylashree took part in TECHGIUM 2023 at IIT Kanpur on 26 December 2023 and also mentored participants in the Coding Champions contest on 15 September 2023 at Vel Tech. These events aim to encourage research-oriented thinking and coding skills.
- Mr. K. Sankar Ganesh attended TECHGIUM at IIT Kanpur on 26 December 2023, contributing to the collective efforts in fostering student innovation and technical excellence.
- Mr. S. Gopi competed in the IEEE Xplore Coding Competition held on 29 October 2023, organized by IEEE. This competition challenges participants in high-level coding and algorithmic problem-solving.
- Mr. V. Mohamed Keeran participated in the Coding Champions contest on 15 September 2023 at Vel Tech, enhancing his competitive programming abilities through active involvement.

Student's Acheivements

List of Faculty Members Involved in Student Innovative Projects

- M. Arun, and Dr. Kishore Kumar, actively engaged in various academic events. Their involvement in workshops, conferences, and faculty development programs demonstrates the department's strong commitment to continuous learning, expertise enhancement, and knowledge sharing across disciplines such as IoT, cybersecurity, compiler design, research publication, and health technologies.

- Faculty members of the School of Computing actively mentored students in diverse innovation-driven competitions held between August and December 2023. These included prestigious national platforms such as TECHGIUM at IIT Kanpur, Prerna Quiz at IIM Mumbai, IEEE Xplore Coding, and TATA Crucible. Faculty also guided students in events like Coding Champions, TECHNOVANZA, and Make-A-Thon across institutions including Vel Tech, Saveetha, VIT Chennai, and Rajalakshmi Institute of Technology. Their continued involvement played a pivotal role in nurturing student innovation and promoting hands-on learning through real-world challenges.

Industry Program

- The Department of Computer Science and Engineering successfully organized a series of cutting-edge industry-aligned summer programs for the academic year 2023–2024, fostering hands-on learning and professional exposure. These programs spanned diverse and contemporary technology domains such as .Net Framework, AngularJS, DevOps, IoT App Development, ReactiveJS, UI/UX Design, and Augmented/Virtual Reality. Renowned industry experts, including Mr. Syed Mohammed Alam (CEO, Crescent TechnoSoft), Mrs. Karthika (Lead Software Engineer, TVS NEXT), Dr. T. Nallaswamy (Manager, Pravartak Technologies, IITM), and several others, delivered intensive 15-hour modules designed to bridge the gap between academia and real-world applications. Notably, the courses witnessed remarkable participation, with over 330 students registering across seven programs. These industry-led sessions not only enhanced technical proficiency but also equipped students with practical insights essential for thriving in today's competitive tech ecosystem.

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Student's Acheivements
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- Mr. K. Sankar Ganesh attended TECHGIUM at IIT Kanpur on 26 December 2023, contributing to the collective efforts in fostering student innovation and technical excellence.
- Mr. S. Gopi competed in the IEEE Xplore Coding Competition held on 29 October 2023, organized by IEEE. This competition challenges participants in high-level coding and algorithmic problem-solving.
- Mr. V. Mohamed Keeran participated in the Coding Champions contest on 15 September 2023 at Vel Tech, enhancing his competitive programming abilities through active involvement.

- Faculty members of the School of Computing actively mentored students in diverse innovation-driven competitions held between August and December 2023. These included prestigious national platforms such as TECHGIUM at IIT Kanpur, Prerna Quiz at IIM Mumbai, IEEE Xplore Coding, and TATA Crucible. Faculty also guided students in events like Coding Champions, TECHNOVANZA, and Make-A-Thon across institutions including Vel Tech, Saveetha, VIT Chennai, and Rajalakshmi Institute of Technology. Their continued involvement played a pivotal role in nurturing student innovation and promoting hands-on learning through real-world challenges.

Abroad Program

- Prof. Dr. Jey Chelladurai also led the "GUI Design with iOS" course from 26 to 28 July 2023, attended by 31 students. "Programming for Data Analysis," overseen by Prof. Dr. Sandeep Singh Sengar of Cardiff Metropolitan University, UK, was held between 25 August and 4 September 2023 with 52 participants

- The Abroad Program offered a diverse set of industry-aligned courses designed to enhance student skills with expert guidance. The .Net Framework course (subject code 1157CS110) was conducted from 16 to 18 August 2023 and led by Mr. Syed Mohammed Mahe Alam, CEO of Crescent Technosoft, Bangalore.

- This 15-hour course had 48 students registered, focusing on contemporary .Net technologies. The DevOps course (1157CS956) was spread over 20–22 August and 2 September 2023, under the expertise of Dr. T. Nallusamy, Manager of Operations at Pravartak Technologies, IIT Madras. With 65 students, this intensive curriculum explored continuous integration, deployment pipelines, and DevOps culture

- Prof. Dr. Sandeep Singh Sengar also led "Computer Vision with Deep Learning" in August 2023 for 50 students. Cybersecurity-focused courses, "Cyber Security Threat Handling and Incident Response" and "Digital Forensics and Incident Response," were delivered by Prof. Dr. Sundresan Perumal from Universiti Sains Islam Malaysia in late September 2023, with 47 and 51 students respectively..

- "Applied Artificial Intelligence and Intelligent Systems," taught by Prof. Dr. Keshav Dahal from the University of West of Scotland, UK, ran from 1 to 7 September 2023 and enrolled 52 students. The "Virtual and Augmented Reality" course, another by Prof. Dr. Jey Chelladurai, took place in September 2022, with 51 students.

- Financial Technology," taught by Prof. Dr. Keshav Dahal, ran concurrently and had 51 participants. Lastly, "Medical Image Analysis with AI and ML," by Prof. Dr. Sandeep Singh Sengar, was held from 5 to 13 September 2023, engaging 56 students

- Reactive JS (1157CS996) was delivered in three sessions on 9, 10, and 24 September 2023 by Mr. Ganapathi Sundaram, Technical Lead at Innova Solutions, Chennai. The course, also 15 hours long, was attended by 64 students focusing on reactive programming principles and frameworks.

- The Angular JS course (1157CS982) ran from 2 to 17 September 2023, taught by Mrs. Karthika, Lead Software Engineer at TVS NEXT Limited, Chennai. This course covered the fundamentals and advanced concepts of Angular development across 15 hours with 40 students participating.

- Augmented Reality and Virtual Reality technologies (1157C118) were taught by Mr. Srinivasan Yagnanarayanan, Founder and CEO of Grahas VR, during sessions on 12, 13, and 16 September 2023. A total of 27 students learned about the cutting edge of immersive technologies.

Abroad Program

- UI/UX Design (1157CS119), held over 19 to 21 September 2023, was led by Mr. Mohd Waseem Akram, SeniorUI/UX Designer at WTA StudiosPvt. Limited, Hyderabad. The course engaged 47 students with design principles and user experience best practices.

- From 28 to 30 October 2023, Mr. Paramasivam, Senior APP Developer at Capgemini, instructed the Apps Development with iOS course (1157CS117). The 15-hour practical course enrolled 39 students who gained hands-on experience in iOS app creation.

- Altogether, these seven specialized courses involved 330 students, delivering practical, expert-led education to prepare them for international and industry-standard roles.

- The Abroad Program for Summer Semester AY 2022-23 offered twelve specialized courses featuring international experts, designed to enrich student learning with global industry and academic insights. The "Game Development for Android" course was led by Prof. Dr. Jey Chelladurai from East Stroudsburg University, USA, spanning 10 to 14 October 2023 over 15 hours with 50 student participants.

- Deep Learning Approaches," taught by Prof. Dr. Shridhar (University of Michigan, USA), and "Artificial Neural Networks," by Prof. Dr. Daniel Einarson (Kristianstad University, Sweden), were both conducted from 26 to 31 October 2022, each attracting 50 students.

- Complementing the Abroad Program, the Industry Program in the same semester offered seven courses to 330 students focusing on technologies such as .Net Framework, AngularJS, DevOps, and UI/UX Design.

- Together, these 19 courses benefited 776 students, reflecting Vel Tech's commitment to providing comprehensive, industry-relevant and internationally guided education.

- The Department of ComputerScience and Engineering successfully organized the CSE Abroad Program – Summer 2023–2024, featuring twelve globally recognized certification courses. Topics included Game Development, Deep Learning, FinTech, Cybersecurity, IoT-based GUI Design, and Virtual/Augmented Reality. These 15-hour modules were delivered by distinguished international experts from the USA, UK, Sweden, and Malaysia, including Prof. Dr. Jey Chelladurai,Prof. Dr. Sririshkar, Dr. Keshav Dahal, Prof. Dr. Daniel, and Prof. Dr. Subapriya Perumal. With 446 student participants, the program enrichedglobal academic exposureand enhanced students' readiness for international tech careers.

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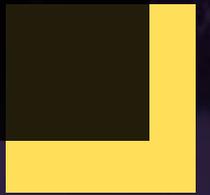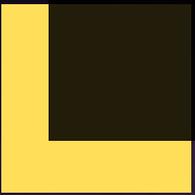# YOU DON'T HAVE TO BE PERFECT, JUST BE THE BEST VERSION OF YOURSELF TODAY.

"
THE *BEST* IS YET TO *COME*

Take a deep breath and try all over again

"

Success isn't given; it's earned by hard work, persistence, and creating your own opportunities.