

SMART SPRINKLERS

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*The
Official Newsletter
of Computing Technologies*



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Editorial Message



In 1969, ISIJU built India's first Indigenous Computer

Dear Contenders!

Pleasant meeting with you again. As an Editorial aspect, let us look in to few groundbreaking computing inventions in the consecutive two centuries, without which we are unable to lead our life today. The rise of personal computers, the internet, and powerful programming languages and the innovations have led to the rise of personal computers, the internet, and powerful programming languages that have enabled us to solve complex problems and develop cutting-edge software.

- Alan Turing (1912-1954): The father of theoretical computer science was a mathematician, logician, and cryptanalyst during World War II made significant contributions to artificial intelligence, developing the Turing Test as a method for determining a machine's ability to exhibit intelligent behavior.
- Grace Hopper (1906-1992): A pioneer in computer programming, an American computer scientist, created the first compiler, a program that translates high-level language code into machine-readable code.
- John von Neumann (1903-1957): The electronic digital computer visionary, a Hungarian-American mathematician and computer scientist, played a crucial role in the development of the electronic digital computer.
- Sir Tim Berners-Lee (b. 1955): The inventor of the World Wide Web, a British computer scientist, invented the World Wide Web, and created the first web browser, web server, and the Hypertext Markup Language (HTML) that enables web pages to be displayed.
- Ada Lovelace (1815-1852): The first computer programmer, was an English mathematician, is considered the first computer programmer, and worked alongside Charles Babbage on his Analytical Engine, a general-purpose mechanical computer.
- Donald Knuth (b. 1938): The master of computer programming languages, an American computer scientist and mathematician, is best known for his multi-volume work, "The Art of Computer Programming. And for his contributions to the field have earned him the prestigious Turing Award.
- Edsger Dijkstra (1930-2002): The leader in programming language design, a Dutch computer scientist, made significant contributions to computer programming languages and the development of algorithms and introduced the shortest-path algorithm, known as Dijkstra's algorithm, and emphasized the importance of data abstraction and structured programming and he was a recipient of the Turing Award.
- Marvin Minsky (1927-2016): The artificial intelligence genius was an American computer scientist and a pioneer in the field of artificial intelligence who co-founded the MIT Media Lab and the Stanford Artificial Intelligence Laboratory, where he developed ground-breaking theories on machine learning algorithms and neural networks.
- Linus Torvalds (b. 1969): The creator of the Linux operating system, a Finnish-American computer scientist, created the Linux operating system, which is now one of the most popular operating systems worldwide
- Vint Cerf (b. 1943) and Robert Kahn (b. 1938): The architects of the Internet were the two American computer scientists, co-invented the Transmission Control Protocol (TCP) and the Internet Protocol (IP), the foundational technologies that make up the backbone of the internet.
- James Gosling (b. 1955): The father of the Java® programming language, a Canadian computer scientist, is the creator of the Java programming language, one of the most widely used programming languages today.
- Margaret Hamilton (b. 1936): The woman behind the moon landing software, an American computer scientist and software engineer, was the lead engineer for the Apollo Guidance Computer software that enabled the Apollo 11 mission to land on the moon.

Editorial Message

- Katherine Johnson (1918-2020): The NASA mathematician who reached for the stars, was a mathematician and computer scientist who played a crucial role in NASA's early space missions.
- Anita Borg (1949-2003): The advocate for women in technology, dedicated her career to increasing the representation of women in the technology industry.
- Steve Jobs (1955-2011): The mastermind behind Apple, a visionary entrepreneur and co-founder of Apple Inc., revolutionized the tech industry with his incredible innovations.
- Larry Page (b. 1973) and Sergey Brin (b. 1973): The founders of Google, the co-founders of Google, changed the way we access and use information on the internet.
- Guido van Rossum (b. 1956): The creator of Python, a Dutch computer scientist, is best known for creating the Python programming language
- Bjarne Stroustrup (b. 1950): The father of C++, a Danish computer scientist, is the creator of the C++ programming language
- Whitfield Diffie (b. 1944) and Martin Hellman (b. 1945): Pioneers of public key cryptography, two American computer scientists, revolutionized the field of cryptography with their invention of public key cryptography.
- Shafi Goldwasser (b. 1959) and Silvio Micali (b. 1954): Innovators in cryptography and complexity theory, two renowned computer scientists, have made significant contributions to the fields of cryptography and complexity theory.
- Mark Dean (b. 1957): The innovator of personal computer technology, a computer scientist and engineer, has made significant contributions to the development of personal computers
- Frances E. Allen (1932-2020): The trailblazer in compiler optimization, an American computer scientist, was a pioneer in the field of compiler optimization.
- Guo Moruo (1892-1978): The pioneer of Chinese language computing, played a pivotal role in the development of Chinese language computing.
- Victor Bahl (b. 1964): The leader in mobile and wireless computing, as a Distinguished Scientist at Microsoft Research, Bahl's work on wireless networking technologies, such as opportunistic networks and indoor localization, has helped shape the future of mobile computing.
- Bill Gates (b. 1955): The visionary behind Microsoft, an American computer scientist, entrepreneur, and philanthropist, co-founded Microsoft with Paul Allen in 1975, setting the stage for the personal computer revolution. Gates' vision and leadership led to the development of groundbreaking products like the Windows operating system and the Microsoft Office suite, which have become staples in homes and offices worldwide.
- Like the scientists mentioned above, if there is dedication and goal setting in our minds, sure there will be a path for innovation for the betterment of the Ecosystem around us. The Department of Computing Technologies is striving hard to bring excellence through the Research verticals, it generated and by the hard working and determinant faculty members and the enthusiastic research oriented innovative student community. Let's be one step ahead! Choice is yours!

*Though the world may not be converted in to Heaven, It can be made as a Haven
for everyone with safety and security.*

Hope to meet you in the next Edition. Stay Tuned.

Dr.B. Amutha
SoC-Newsletter-Head
Department of Computing Technologies

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MESSAGE FROM ASSOCIATE CHAIRPERSON



Dear Readers,

Seasonal Greetings!

As we reflect on the past 3 months, it is with immense pride that I take this opportunity to celebrate the remarkable achievements of both our students and faculty. Their dedication, hard work, and unwavering commitment to excellence continue to elevate our department and contribute to our ongoing success.

Our students have demonstrated exceptional academic performance, creative innovation, and a strong commitment to their research and extracurricular activities. We are thrilled to announce that our students have secured outstanding internship offers from leading industries and prestigious central universities. These opportunities reflect the talent, hard work, and dedication of our students, as well as the strong reputation of our department in fostering academic and professional excellence.

Equally impressive has been the outstanding work of our faculty. Remarkable achievement of prestigious spot among the top 2% of scientists globally, a testament to their groundbreaking research and dedication to excellence and awarded a distinguished postdoctoral fellowship pursuit of academic and professional excellence. Their commitment to teaching, research, and mentorship has not only enriched our academic community but also paved the way for the next generation of students and professionals.

As we move forward, it is important to recognize that these successes are a reflection of the collaborative spirit within our department. The continued growth of both our students and faculty relies on our shared commitment to fostering an environment of support, respect, and innovation.

Let us take a moment to celebrate these accomplishments and continue to support one another as we work toward even greater success in the months ahead.

Dr. M. Pushpalatha

*Professor and Associate Chairperson
Department of Computing Technologies*

RECOGNITION OF MERIT: DR. G. NIRANJANA APPOINTED HEAD OF THE DEPARTMENT

We are pleased to announce the appointment of Professor Dr. G. Niranjana as the new Head of the Department of Computing Technologies. This is a significant milestone, and we extend our heartfelt congratulations to Dr. Niranjana on this well-deserved promotion.

Dr. Niranjana has consistently excelled in teaching, research, and service to the university. In her new role as Head of the Department, she will lead with a strong mission, fostering an environment of collaboration, innovation, and academic excellence in alignment with the university's vision.

Please join us in congratulating Professor Dr. G. Niranjana on this exciting new chapter in her career. We look forward to the continued growth and success of the department under her leadership.

MESSAGE FROM HEAD OF THE DEPARTMENT



Dear Readers,

Seasonal Greetings!

I am delighted to share the remarkable achievements of our students and faculty over the past 3 months. The excellence demonstrated by both groups continues to elevate the reputation of our department and reinforces our collective commitment to academic success and innovation.

Our students have displayed extraordinary dedication, creativity, and hard work across all aspects of their academic and extracurricular pursuits. In addition, the leadership and community involvement exhibited by our students in various departmental and campus activities have been truly commendable. These accomplishments reflect their commitment to becoming well-rounded individuals who contribute meaningfully to society.

Our faculty dedication to teaching, groundbreaking research, and mentorship of our students is a driving force behind the department's success. Whether it's through innovative teaching practices, securing research grants, publishing in top-tier journals, or guiding students in their academic journeys, our faculty members continue to push the boundaries of knowledge and inspire the next generation of leaders. The collaborative spirit within our department and the support our faculty provide to each other and to our students has been integral to the continuous growth and success of our academic community.

These outstanding achievements, both by our students and faculty, are a testament to the strong foundation of academic excellence that we have all worked hard to build together. As we move forward, I am confident that we will continue to nurture a culture of innovation, academic rigor, and mutual support.

I would like to extend my deepest congratulations to all of our students and faculty members for their hard work, dedication, and remarkable accomplishments. Let's continue to strive for even greater success as we enter the next chapter of our department's journey.

Dr. G. Niranjana
Professor and Head
Department of Computing Technologies

ABOUT THE DEPARTMENT

The Department of Computing Technologies (CTECH) fosters the future of the computing world. The department's mission is to advance, evolve, and enhance Computer Science and Engineering fundamentals to build the intellectual capital of society. The CTECH Department endeavours to be an important regional, national, and international resource centre for the development of Computing and its applications. The department is excelling by keeping up the pace with recent trends and evidence of exponential and exhilarating growth. CTECH boasts a vibrant student fraternity including undergraduates, postgraduate students, research scholars, and a stellar faculty of professors.

VISION



To become a world class department in imparting high-quality knowledge and in providing students a unique learning and research experience in Computer Science and Engineering.

MISSION



- *To impart knowledge in cutting edge technologies on par with industrial standards.*
- *To collaborate with renowned academic institutions in research and development.*
- *To instill societal and ethical responsibilities in all professional activities.*

Doctorate Dynamo: Fostering Academic Excellence

The years of hard work and dedication have finally resulted in the most significant fruit you have ever wanted. Many congratulations on your Ph.D. degree. Family of Computing Technologies wish that all the goals that you have set become more attainable, especially now that the biggest dream of your life has already come true. Best wishes for your achievements.

Dr. M. Janani

Research Supervisor: Dr.Jebakumar

Title: *Ntensification In Crop Health Status Identification And Classification System Using Mathematical Morphology And Learning Techniques.*

Dr. Divya Mohan

Research Supervisor: Dr.A.Geetha Mary

Title: *Artificial Intelligence Based Load Balancing and Handover Mechanisms for Optimal Communication in 4G Network.*

Dr. S.S.Saranya

Research Supervisor: Dr.N.Sabiqath Fatima

Title: *Improvements in Classification of Medical Data (IVF) through Contemporary Processing and Enhanced Deep.*

Dr. Saminathan S

Research Supervisor: Dr. C.Malathy

Title: *: A Framework for Particulate Matter 2.5 Concentration Forecasting using Machine Learning and Deep Learning Techniques.*

Congratulations

NEW ONBOARD

We are delighted to have you all among us. Our good wishes on becoming part of our enthusiastic team.



Dr. R. Hariharan
Assistant Professor



Dr. R. Kavitha
Assistant Professor



Dr. Mohideen Abdulkader M
Assistant Professor



Dr. K. Ishwarya
Assistant Professor



Dr. B. Umamageswari
Assistant Professor

Welcome

HIGHLIGHTS

Research Highlights

Dr. Abhijit Saha, Research Assistant Professor, recognized among the "World's Top 2% Scientists" for the year 2023, as published by Stanford University. The prestigious recognition highlights the outstanding contributions to research and significant impact within the global scientific community.

Dr. Abhijit Saha has been appointed as the Chief Research Fellow in the Faculty of Fundamental Sciences, Department of Information Technologies, at Vilnius Gediminas Technical University, Lithuania, which is ranked 851 in the QS World University Rankings from 1st September 2024.

Dr. Jayapradha has published a research paper titled "Cluster-Based Anonymity Model and Algorithm for 1:1 Dataset with a Single Sensitive Attribute Using Machine Learning Technique" in the prestigious Egyptian Journal of Informatics, which holds an impressive Impact Factor of 5.2. This significant contribution reflects Dr. Jayapradha's expertise in data privacy and machine learning, showcasing innovative approaches to safeguarding sensitive data.

Qiskit Global Summer School 2024 - Quantum Excellence

Qiskit Global Summer School for two weeks covering topics ranging from Qiskit 1.0 to the most promising near-term applications. 5 Students who obtained Quantum Excellence badge from IBM.

- 1. Shyam B*
- 2. Sujith Kumar S*
- 3. Priyanshi Singh*
- 4. Mohammed Yaqub*
- 5. Vijay Bala Mahalingam*

Faculty members who obtained Quantum Excellence badge from IBM

- 1. Dr.S.Nalini*
- 2. Dr.Raghavendra.V*
- 3. Dr.R.Thilagavathy*
- 4. Dr.Gayathri.M*

HIGHLIGHTS

Interdisciplinary Research / Consultancy Projects in Partnership with R&D Apollo Global Asia

Congratulations on the successful completion of multiple interdisciplinary consultancy projects in collaboration with R&D Apollo Global Asia. This achievement highlights the team's dedication, expertise, and innovative approach in delivering impactful solutions across a range of domains. These collaborative efforts have not only strengthened the partnership between our institution and Apollo Global Asia but have also set a new standard for future projects and initiatives.

Our students, Sanskar (III Year CTech), Santrupt Shekar (III Year CTech), Devesh Patel (III Year CTech), Ashutosh Naruka (III Year CTech), and Arnav Singh (IV Year CTech), have secured prestigious internship offers from the renowned Apollo Tyres Ltd R&D Global Asia. This remarkable achievement highlights our students' exceptional skills and dedication, who have consistently demonstrated excellence in the projects allotted to them. These internships will provide them with invaluable industry experience, allowing them to work alongside leading experts and contribute to groundbreaking innovations in interdisciplinary areas.



Faculty Mentors Dr. M. Suchithra, Dr. B. Kanisha, Dr. B. Arthi and Apollo R & D Students Team along with Dr. M. Pushpalatha, Head of C. Tech Department and Dr. Revathi Venkataraman, Chairperson, School of Computing



Top Performer in Creators of Metaverse Program

Dr. R I Minu, Professor, Department of Computing Technologies, has been awarded a Certificate of Excellence in Phase 2 of the prestigious Creators of Metaverse Faculty Development Program and earned Top Performer for the academic year 2024-25. The intensive 8-hour training focused on Augmented Reality (AR) learning and workplace experiences, empowering participants to develop basic to advanced level AR projects using Meta Spark Studio.

HIGHLIGHTS

Innovative Breakthroughs Honored: Samsung PRISM Phase 6 Excellence Awards

Samsung's PRISM Phase 6 initiative has recognized 10 exceptional worklets for their innovation and impact, awarding them the "Excellence" distinction. Each winning team, composed of two faculty members and four Final Year students, received a reward of Rs. 86,400, celebrating their hard work and breakthrough solutions in technology. The following teams were awarded for their outstanding contributions:

1. **Worklet Title:** Gen AI Multilingual Language Model (LLM) answer translating using AI4 Bharat Transformer Generative for offer P/F

Faculty: Dr.M. Pushpalatha, Dr. Vaishnavi Moorthy

Students: P Karthik Manikantan, Anouska Jhunhunwala, Shiv Anand Awasthi, Disha Kumar

2. **Worklet Title:** Demoire of Camera Captures on Mobile

Faculty: Dr. P. Saranya, Dr. R. Anto Arockia Rosaline

Students: Ayush Raj, Aruna S, Shubhanshu Tiwari, Dherya Pratap Singh Rana

3. **Worklet Title:** AI/ML Dynamic Pattern Recognition & Rule Recommendation

Faculty: Dr. M. Uma Devi, Dr. S. S. Saranya

Students: C. Agney, Vikrant Kumar Verma, Nikhil Ivannan, Kamsala Pallavali Vishnu Sai

4. **Worklet Title:** Deep Learning Based Pet Face Action Recognition Engine

Faculty: Dr. S. Poornima, Dr. J. Jayapradha

Students: Abhishek Yadav, Aman Agarwal, Yohan Vergis Vinu, Sanskar Patil

5. **Worklet Title:** SmartThings Command Generator Using Generative AI

Faculty: Dr. K. Vijaya, Dr. C. Pretty Diana Cyril

Students: Sristi Kumari, Amritha R, Anvit Pawar, Alok Kumar Verma

6. **Worklet Title:** High-Speed Ultrasound Data Transfer Between Mobile Devices

Faculty: Dr. E. Poovammal, Dr. Aswathy K. Cherian

Students: Kapaganti Pardha Sai, Parth Vyas, Arun Krishna, Arihant Jain

This achievement reflects Samsung's commitment to fostering collaboration between academia and industry, empowering young minds to contribute to the future of tech through creative problem-solving and advanced research under the PRISM initiative.

HIGHLIGHTS

Heartfelt Congratulations to Dr. C.Santhanakrishnan on His Postdoctoral Fellowship!

Dr.Santhanakrishnan C has been selected for Visiting Post-Doctoral Research Fellow under Faculty of Engineering, Technology and Built Environment (FETBE) UCSI University, Malaysia. QS Rankings UCSI University ranks 61st in Asia; QS World University Rankings -300.



Dr. C.Santhanakrishnan

Bharat Drone Innovations Represents SRM IST at IMC Aspire 2024, Showcasing Revolutionary Drone Solutions

We are proud to announce that Saurajyoti Bhattacharjee (RA2211003010531), founder of Bharat Drone Innovations (Team Bharat), represented SRM IST at the prestigious IMC Aspire 2024 held at Pragati Maidan, Delhi. Accompanied by team member Shaik Sameer Pasha (RA2211019010043), Aerospace Engineering Department, SRMIST, Saurajyoti showcased their cutting-edge drone solutions, demonstrating a perfect blend of innovation and national relevance.

IMC Aspire 2024, inaugurated by the Honorable Prime Minister Shri Narendra Modi Ji, provided a unique platform for startups and student innovators to display their groundbreaking work. Bharat Drone Innovations stood out among the top tech-driven initiatives, emphasizing their potential to contribute significantly to India's technological landscape.

Guided by faculty mentors Dr. C. Muralidharan and Dr. V. Arulalan the team presented pioneering drone technology aimed at addressing critical industry challenges. Their participation underscores SRM IST's commitment to fostering innovation and empowering young entrepreneurs to create meaningful societal impact.



Saurajyoti Bhattacharjee at IMC Aspire 2024

HIGHLIGHTS

Consultancy

Dr. B. Muruganantham, Associate Professor, Dr. T. Senthil Kumar, Associate Professor, Dr. S. Pradeep, Associate Professor, Dr. R. Jeya, Associate Professor and Dr. G. K. Sandhia, Associate Professor, and Dr. Jayapradha, Assistant Professor, have received a consultancy project titled "Connected Car Solutions: Harnessing GPS for Comprehensive Vehicle Monitoring and Management System." This initiative aims to leverage advanced GPS technologies to enhance vehicle monitoring and management systems, commissioned by Hanumanthalaya Udrive, Pondicherry, with a total project value of Rs. 11,85,400/-.

Dr. P. Saranya, Associate Professor, Dr. S. Poornima, Associate Professor, Dr. S. Priya, Assistant Professor, and Dr. K. Alice, Assistant Professor, have received a consultancy project titled "AI Customer Support Chatbot for E-Commerce" from Infoston Technologies LLP. This project has a total value of Rs. 2,02,000 and will be executed over a tenure of 4 months. The initiative aims to develop an innovative chatbot solution to enhance customer support in the e-commerce sector.

Prize in International Article Writing Competition

Dr. J Jayapradha, Assistant Professor, won First Prize in the 2nd International Article Writing Competition 2024, organized by Multimedia University (MMU), Malaysia. Her article, "Treatment Recommendation Using BERT Personalization," explores the use of BERT (Bidirectional Encoder Representations from Transformers) for personalized treatment recommendations in healthcare, showcasing the application of AI and machine learning to enhance patient outcomes.

HIGHLIGHTS

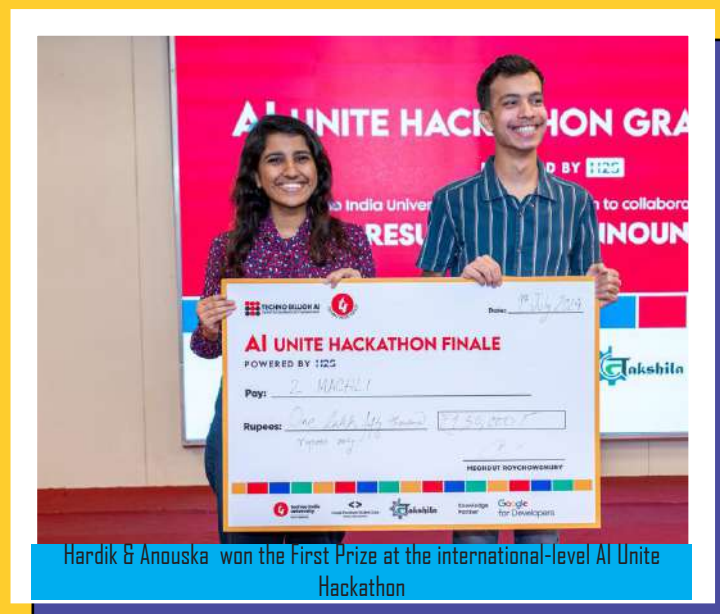
SRMIST Student Achieves Prestigious Selection in Indian Army

We are proud to announce that Moduguru Vishal (Student Reg. No. RA2011003010986) has been selected for the Short Service Commission (Technical) in the Indian Army. He officially joined this esteemed position on 28th September 2024. This remarkable achievement highlights the commitment, discipline, and perseverance that Moduguru Vishal has demonstrated throughout his academic journey, and we extend our best wishes for his bright future serving the nation.



First Prize at International AI Unite Hackathon

Hardik Malani (RA2211003010334) and Anouska Jhunjhunwala (RA2211003010637), have won the First Prize at the international-level AI Unite Hackathon organized by the Techno Billion AI group. The Regional Head and Program Manager from Google India were present at the event as special guests. They were awarded a cash prize of ₹1.5 Lakhs (₹1,50,000).



HIGHLIGHTS

Marquee Offer from Samsung R & D

Shashwat Ganesh, a final-year student, has been offered a Pre-Placement Offer (PPO) from Samsung with an impressive package of Rs. 20 LPA. He is one of only three students selected across the nation for this prestigious opportunity, highlighting his exceptional talent and hard work.



Shashwat Ganesh

International Collegiate Programming Contest

The 2024 ICPC Asia Taiwan Online Programming Contest, organized by ACM, took place on September 7, 2024. This prestigious competition showcased exceptional teamwork, programming, and problem-solving skills on an international stage. From SRM Institute of Science and Technology, 111 teams participated, and 15 teams from the Department of Computing Technologies earned ranks. Impressively, out of all the Indian teams, only three reached the top 100, with two teams from SRMIST's Department of Computing Technologies, underscoring our institution's global excellence.

Bronze Medalists:

*Team 1 – Low Day (Rank 71), guided by Dr. D. Vanusha
Team 2 – Newbie (Rank 97), guided by Dr. N. Arunachalam
Team 3 – Byte Bites (Rank 109), guided by Dr. P. Saranya*



International Collegiate Programming Contest

HIGHLIGHTS

IEI Highlights

On the Occasion of Engineer's Day event conducted by Kattankulathur Local Centre which was held on September 18th 2024, IE(I) Students' Chapter, CTECH has been honoured with the Best Student Chapter Award 2023-2024 for the second consecutive year! This remarkable achievement is a testament to the dedication, passion, and teamwork of our entire community. This award is a reflection of what we can accomplish when we come together as a team.



Best IE(I) Student Chapter Award 2023-2024

FACULTY TESTIMONIAL

Faculty Testimonial

As Samsung PRISM coordinator for SRMIST, I am impressed by the university's dedication to bridging the gap between academia and industry. Collaborating with the faculty and students here has been incredibly rewarding, as they bring fresh perspectives and innovative solutions to real-world challenges. SRMIST's emphasis on practical, hands-on experience means students are not only academically prepared but also industry-ready, which enhances the success of every PRISM project we undertake together. SRMIST's commitment to nurturing industry-academic partnership has created a dynamic environment where knowledge is both applied and expanded. I am deeply honoured to receive the Samsung PRISM Excellent Coordinator Award from Samsung R&D, Bangalore and would like to extend my heartfelt thanks to the university's higher officials for their unwavering support. I look forward to continuing to contribute to our shared mission and am truly grateful for the opportunity to work under such inspiring leadership.



Dr.S.Poornima
Associate Professor
Samsung PRISM Coordinator

ALUMNI TESTIMONIAL

From SRM to Sun Life: A Journey of Growth and Discovery

As I reflect on my time at SRM Institute of Science and Technology, I can't help but feel an overwhelming sense of gratitude. My journey from the Department of Computing Technologies to becoming a Software Developer at Sun Life has been one filled with valuable lessons, challenges, and rewarding experiences.

At SRM, I was fortunate to be part of an environment that fostered curiosity and innovation. Whether it was the diverse projects I worked on or the collaborative learning culture, my time at the university allowed me to build a strong foundation in software development and problem-solving. More importantly, SRM nurtured a mindset of continuous learning, which has been crucial in my role at Sun Life.

The transition from student life to a professional career was not without its challenges, but my education prepared me well for the shift. SRM's focus on practical learning, combined with mentorship from knowledgeable professors, helped me develop not only technical skills but also soft skills like teamwork, communication, and adaptability.

Now at Sun Life, I apply these lessons every day, contributing to innovative projects that impact clients globally. It's exciting to be part of a forward-thinking company where growth and development are encouraged, much like my experience at SRM.

To current students, my advice is simple: take full advantage of every opportunity SRM offers. Be open to learning from every experience, stay resilient in the face of challenges, and never stop honing your skills.

"Success is not the key to happiness. Happiness is the key to success. If you love what you are doing, you will be successful." — Albert Schweitzer

Pursue your passion, stay focused, and great things will follow!

Praharsh Trehan-RA2011003010652(2020-2024 Batch)
Software Developer, Sun Life



ALUMNI TESTIMONIAL

My Journey as an SRM Alumnus

As a proud graduate of SRM Institute of Science and Technology, I am thankful for the strong foundation and growth mindset I gained there. My journey from being a student in the Department of Computing Technologies to becoming a Machine Learning Engineer at Quantiphi has been amazing.

The diverse environment allowed me to meet people from different backgrounds, which made my learning experience even richer. I also participated in various projects and activities that helped me develop my leadership and teamwork skills.

I would like to express my deepest gratitude to my Faculty Advisor, Dr G Ramya, who played a crucial role in my college journey. They provided immense support and guidance, especially during placement time. Their constant motivation to not give up and to keep learning and improving made a significant difference in my success. Their encouragement helped me stay focused and determined, and I am incredibly thankful for their unwavering support. I am grateful to this institution for contributing to my growth and success. I look forward to staying connected and giving back to the institution.



Ishan Dixit – RA2011003010655 (2020-2024 B.Tech)

ALUMNI TESTIMONIAL

From Classroom to Corporate

As a proud member of the SRM Institute of Science and Technology 2024 Batch, I look back with immense gratitude for the solid foundation and growth mindset that shaped both my personal and professional life. My journey from being a student in the Department of Computing Technologies to becoming a Development Engineer at Standard Chartered Global Business Services has been nothing short of transformative.

During my years at SRM, I was encouraged to explore my passion for communication, innovation, research. This particular learning approach, combined with the immense support from my professors, allowed me to dive deep into the field of computer science that shape my technical and analytics skills. My internship project on camera-based emotional intelligence analysis at IIT Hyderabad, where I developed the world's first emotional intelligence system of its kind, was a unique experience. It pushed me to innovate beyond the classroom, and I owe it to the department for allowing me to access such an extraordinary opportunity.

Of course, the path wasn't without its challenges. Balancing academics, internships, leadership roles, and projects tested my time management and perseverance. But these challenges taught me the importance of consistency, adaptability, and focus. My professors were always there with invaluable advice, guiding me through tough times and keeping me on track.

Graduating as the best outgoing student from the Department of Computing Technologies in 2024 was a proud moment. Soon after, I joined Standard Chartered, where I now apply everything, I learned at SRM to real-world business solutions.

SRM was not just an academic institution for me; it was the launchpad and turning point for my personal and professional growth. The exposure to cutting-edge technologies and the emphasis on holistic development equipped me with the skills I needed to thrive in a competitive world. I'm forever grateful to my professors, mentors, and the department for believing in my potential and guiding me every step of the way.

To current students, my advice is simple: stay curious, stay consistent, and embrace every opportunity that comes your way. SRM offers a unique environment where you can grow in countless ways. With hard work and passion, you can achieve remarkable things. Your journey is just beginning, and I have no doubt you'll make a significant impact in the industry, for the country, and beyond.

Remember this quote from Nelson Mandela:

"It always seems impossible until it's done."

To anyone reading this—there's nothing you can't achieve. With the right mindset and a willingness to embrace every opportunity, SRM will guide you toward achieving whatever you dream of.



VIKASH PR -RA2011003010737 (2020-2024 Batch)

STUDENT TESTIMONIAL

Internship at Apollo Tyres Pvt Ltd

My Internship at Apollo Tyres was an enriching experience that offered both learning and growth. I did a college-facilitated project, working in a four-person team for six months, and was supported at every stage by my college and mentors. After our project was over, through a stroke of luck I got this opportunity to work at the Apollo office, as Project Intern. and after extreme persuasion by my friend and mentor, I accepted the opportunity.

At Apollo, I took on an Automation project, handling it independently as the sole programmer in the design and mould Engineering Department. The project's success was due to the invaluable support I received from both Apollo and my college community.

I am grateful to our former HoD, Dr. M. Pushpalatha, and Apollo Project Coordinator, Dr. B. Kanisha, for granting me this opportunity. My sincere thanks to Dr. M. Suchithra for guiding our project team, and to the entire team for their amazing cooperation and teamwork throughout, which ultimately opened doors to this internship, and to my Faculty Advisor, Dr. M. Sindhuja, for her continuous support throughout the internship.

Lastly, I thank everyone at Apollo Tyres, as well as the team I was working in, for their guidance on Tyre Engineering and Design tools, which were crucial in bringing this project to life.



Arnav Singh
RA2111003010627

Global Academic Internship Program (GAIP) at NUS

My experience with the Global Academic Internship Program (GAIP) at NUS along with AWS has been transformative, giving me the chance to dive into Big Data Analytics using Deep Learning projects through hands-on learning. SRM University played an instrumental role in making this opportunity possible by providing unwavering support, from guiding the application process to offering resources that helped me make the most of this experience. Through GAIP, I developed practical skills in data analytics and AI applications and learned the value of collaboration and innovation in real-world projects. Beyond technical skills in AI and data analytics, I gained invaluable soft skills in communication, teamwork, and adaptability. This experience has broadened my perspective, strengthened my technical foundation, and inspired me to explore future opportunities in AI and Big Data.



SAI PRIYAA M RA2311003010806

STUDENT ACHIEVEMENTS

Chettim Chetty Hemasri - RA2211003011092 from Third year A2 Section Won Second Position along with cash Rs.5000/- in Altair Data science contest organized by Altair and Institute of Engineering and Science, IPS Academy (IES IPS).

Chettim Chetty Hemasri - RA2211003011092 from Third year CSE A2 Section Won First Position with 200\$ in Hackathon organized by SOASH on 4th to 8th July 2024.

Chettim Chetty Hemasri - RA2211003011092 from Third year CSE A2 Section Won Third position along with Amazon Gift Card worth \$10 in HACKTIVISM Ideathon organized by Politechs and Sponsored by Certopus on 14th July to 12th August 2024.

Samyak Varia - RA2211003011203, Taanisha Sharma - RA2211003011206, Naman Srivastava - RA2211003011232 and Devish Mittal - RA2211003011227 from Third year CSE C2 Section Won Second position in HackRush 1.0 organized by Qwiklabs Developer Club.

Muppidi Aditya - RA2211003011363, Chakrapani - RA2211003011375, Lakshmi Ganth - RA2211003011392 from Third Year E2 Section Won First Position in Hackrush 1.0 organized by Qwiklabs Developer Club.

Vinayak Soni - RA2211003010885 and Diptayan Jash - RA2211003010890 from third year CSE N1 Section Won Fifth Position in RoboRoarZ Competition organized by Smorphi Imaginary robotics at Singapore on 14th July 2024.

Mayurathvajaa V V - RA2211003010941 and Jasmitha E - RA2211003010947 from year third CSE 01 Section Won First Position in IEI Ideathon organized by SRMIST on 28th August 2024.

Abhivesh Shukla - RA2211003010962 and Sukhumjeet Singh - RA2211003010964 from third CSE 01 Section Won Second Position in IEI Ideathon organized by SRMIST on 28th August 2024.

Nayidi Harini- RA2411003010770 from First Year CSE K1 Section received Certificate of Excellence in recognition of the excellent initiatives and outstanding contributions made during the coincent partnership program on 11th September 2024 at IITGuwahati.

Aryan sharma - RA2411003011596 from First Year CSE E2 Section Won Second Position along with cash prize Rs.4000/- in an Ideathon, AlexaDevelops on 30th August 2024 at SRMIST.

Akshansh Sharma - RA2411003012268 and Mannan Gupta - RA2411003012269 from First Year CSE 02 Section Won Third Position along with a cash prize Rs.2000/- in an Ideathon, AlexaDevelops on 30th August 2024 at SRMIST.

Samiksha S - RA2211003011100 from third year CSE A2 Section Won First Position in FinMini national level Hackathon organized by BS Abdur Rahman Crescent Institute of Science and Technology on 21st to 23rd August 2024.

Annavarapu Pradeep - RA2211003011321, from third year CSE D2 Section, Ayushi Dhelia RA2211003011097 and Srishti Chordia - RA2211003011118 from third year CSE A2 Section Won First Position along with Rs.2500 Cash Prize and 300\$ Google Cloud Credits in HACKRUSH 1.0 organized by Qwiklabs at SRMIST on 30th September to 1st October 2024.

Sagalpreet Singh - RA2211003010827 from Third year CSE M1 Section Won First Position in Redbull Basement organized by Cherry Network at SRMIST on 30th August to 1st September 2024.

Syed Mohammad Ayan Abbas - RA2211003010758 from Third year CSE L1 Section Won Second Position along with 300\$ in ASME Student Design Competition organized by ASME St, Joseph's College, Kerala on 28th August 2024.

Ashneet Kaur Sukhija - RA2311003010239 from Second Year CSE Won First position along with Rs.2000 Cash award in Conocithon 3.0 on 7th september 2024.

Devashish Pandey - RA2311003010202 and Aayush Srivastava - RA2311003010190 both reached 118th Position of international ranking in ICPC.

Ayush Daga - RA2311003010222 and Pavithra CP - RA2311003010234 reached 138th and 130th Position of international ranking respectively in ICPC.

Yash - RA2311003011290 Won the Code Quest contest organized by ACM-W SRM Student chapter at SRMIST on 30th August 2024.

Vijay Bala Mahalingam - RA2311003010079 Won First Position in Crafting Ideas organized by St.Josephs College of Engineering and Technology on 30th August 2024.

Krish Kumar - RA2311003010112, Aayush Kumar - RA2311003010098, Nalin Vijayvargiya - RA2311003010109, Dachapalli Bhavashesh - RA2311003010117, Yasharth Kesarwani - RA2311003010110 reached one among Top 5 batch organized by Cherry+ Network in association with Redbull basement on 29th to 30th August 2024 at SRMIST.

Chiranth AR - RA2311003010414, Mohamed Basheer - RA2311003011018, Mohammad Kaif - RA2311003011022, Kishore Kv - RA2311003011030, Roahan B - RA2311003011031 and Keshava A K - RA2311003011039 Won First Position in Ideathon organized by IEEE CSIS 2024, SRMIST on 29th to 31st July 2024.

Rajdeep Singha - RA2311003011695 Won the BRB Bootcamp by Push Protocol.

Sanjeev T S - RA2411003011796 from First Year CSE H2 Section won gold medals in 500 mtr and 1500 mtr Skating race and also won a silver medal in the road race skating championship conducted by Tamilnadu Roller Skating Association in Tindivanam on 22nd September 2024.



Sanjeev T S won gold medal in skating and silver medal in road race

Jahanvi Singh - RA2411003011580 and **Subhashish Debnath - RA2411003011582** from First Year CSE E2 Section Won First Position in inter college Quest Quotient Ideathon organized by SRMIST and bagged cash prize worth Rs.5000 on 26th September 2024.



Jahanvi Singh and Subhashish won a cash prize of Rs. 5000 in the college Quest Quotient

Jhankar Garg - RA2411003012275 from First Year CSE 02 Section has been selected as one of the 33 teams all over India for the 5G and 6G Hackathon was organized by IISC Bangalore in association with the Ministry of Communication, India on 25th to 27th September 2024 at IISC Bangalore.



Jhankar Garg selected among 33 teams in 5G and 6G Hackathon organized by IISC Bangalore

Anna Sian - RA2411003010366 and **Mehul Bansal - RA2411003010403** from First Year CSE F1 Section presented paper titled "probabilistic deep learning model for brain MRI segmentation" and Won First Position in National level technical symposium under the domain innovation insight at Dr. MG Educational and Research Institute on 17th and 18th September 2024.



Anna Sian and Mehul Bansal won 1st prize in National Level Technical Symposium held at Dr. MG Educational and Research Institute

Krishita Satish Kumar - RA2411003010395, Harsh Kumar - RA2411003010392 and Srilekha Kramadhati - RA2411003010397 from First year CSE F1 Section presented their paper on the topic "Quantum-safe cryptography and block chain in healthcare systems" and Won Second Position in the technical symposium under the domain Cyber security on 25th September 2024 at Sai Ram Institute of Technology.



Krishita Satish Kumar, Harsh Kumar and Srilekha Kramadhati won 2nd place in National Level Technical Symposium held at Sai Ram Institute of Technology

M Manasa - RA2411003010080 from First Year CSE B1 Section and **Sanjiban Panda - RA2411003010205** from First Year CSE C1 Section Won first position along with a cash award of Rs.12,000/- in Smart Agro Storage Hackathon 2024 as a part of the 57th Engineering Day Celebrations organised by Department of Mechanical Engineering, SRMIST in association with the Institution of Engineers on 16th and 17th September 2024.



Manasa M & Sanjiban Panda won Rs.12,000/- cash prize for securing first place in Smart Agro Storage Hackathon held at SRMIST

Krishna Keshab Banik - RA2411026011003, Sanskriti Rastogi RA2411003012439, Nikhil Gautam - RA2411003012438, and Aaryan Uba - RA2411004010745 from First Year CSE Q2 Section Participated in IEEE Ideathon 2.0 and Won First position along with cash prize of Rs.4000/- on 13th September 2024 at SRMIST.



Krishna Keshab Banik, Sanskriti Rastogi, Nikhil Gautam & Aaryan Uba won Rs.4000/- cash prize for securing first place in IEEE Ideathon 2.0 held at SRMIST

Shikar Mani Tripathi - RA2411003010699 and Ansh Mathur- RA2411003010705 from First Year CSE J1 Section Won Second Position in GEN[AI]RT on 11th September 2024 organized by CSI-SRM at SRMIST.



PLACEMENT OFFERS (2021-2025 BATCH)

The 2021-25 batch placement drive has begun with active participation from undergraduate final-year students, marking a significant milestone in their academic journey with unique offers. Esteemed companies have visited SRMIST to conduct recruitment processes, extending our students noteworthy placement and internship opportunities.

In this cohort, 25% of students received job offers out of which 22% are unique offers. Placement ranking metrics are framed which offers a nuanced evaluation of students' abilities, empowering them to make strategic career decisions and target areas for skill development.

MARQUEE PLACED STUDENTS (2021-2025)

Junglee Games



Anubhav Pathak
RA2111003010120
34.4 LPA

Kuddle



Divyanshu Yadav
RA2111003010693
24 LPA

Baton Systems



Abheelash Mishra
RA2111003011143
21.64 LPA

Samsung Prism



Shashwat Ganesh
RA2111003011536
21.64 LPA

Plateup



Sarthak Sachdeva
RA2111003011824
21.4 LPA

Paypal



Aparna Singh
RA2111003010752
24 LPA



Aditya Garg
RA2111003011271
21.64 LPA

Oracle



Sahil Kumar
RA2111003010379
20 LPA



Ankit Pal
RA2111003010796
20 LPA



Harsh Deep
RA2111003011804
20 LPA



Shivansh
RA2111003010243
20 LPA



Vanshika Yadav
RA2111003010267
20 LPA



Aryan Khamesra
RA2111003010287
20 LPA



Mansi Pandey
RA2111003010377
20 LPA



Om Mukherjee
RA2111003011249
20 LPA

MUFG Global Services

Wells Fargo



Sanskriti Garg
RA2111003010166
34.4 LPA



Anvit Pawar
RA2111003010182
31 LPA



Shayan Halder
RA2111003010496
24 LPA



Dherya Pratap Rana
RA2111003010571
24 LPA



Utkarsh
RA2111003010852
21.64 LPA



S. Kaushik
RA2111003011394
21.64 LPA

BNY Mellon



Shivansh
RA2111003010243
31 LPA



Tautik Agrahari
RA2111003010259
31 LPA



Aditya Mittal
RA2111003010351
26.4 LPA



Aayush Kumar
RA2111003010487
24 LPA



Ashish Kumar
RA2111003010502
24 LPA



Nandini Agrawal
RA2111003010861
21.64 LPA



Alok Kumar Verma
RA2111003010917
21.64 LPA

INTERNSHIP OFFERS (2022-2026 BATCH)

The 2022-26 batch placement season has begun, marking a significant milestone in their academic journey with unique internship offers through the CDC, SRMIST. Our students acquired 26 internship offers from various corporate giants, viz., Mercari, BNY Mellon, Fidelity Investments, Western Digital, Natwest, Wells Fargo, Microsoft, Barclays, and others, for their commitment and effort, alongside the robust Industry-Institute Connect.

MERCARI has offered an intern a monthly stipend of Rs 3.6 lakh. Wells Fargo has recruited three students for their internship training with a package of Rs 90000 per month. Barclays, BNY Mellon, and CITIBANK have collectively extended a total of 13 offers to our students, each offering a lucrative package worth Rs 75,000.

Extensive Research internship offers from well-established Academia / industrial connects are received viz., from Mitacs (Mathematics of Information Technology and Complex Systems), Apollo R & D Global Asia, Samsung R & D, Madras Mind Works, IITs, and Datayaan Solutions Private Limited.

INTERNSHIP STUDENTS (2022-2026)

Mercari



P Karthik Manikantan
RA2211003010436
3,62,225 p.m.

Wells Fargo



Samarth Mishra
RA2211003010659
90,000 p.m.



Sukanya Singh
RA2211003010902
90,000 p.m.



Utsav Jaiswal
RA2211003012074
90,000 p.m.

Barclays



Anouska Jhunjhunwala
RA2211003010637
75,000 p.m.



Aryan Kacker
RA2211003010244
75,000 p.m.



Abishek Sonil
RA2211003011185
75,000 p.m.



Sukanya Konar
RA2211003010356
75,000 p.m.



Neeraj Bandi
RA2211003010357
75,000 p.m.



Tuhina Tripathi
RA2211003010423
75,000 p.m.



Vrishabh Khurana
RA2211003010272
75,000 p.m.

BNY Mellon



R Preethi
RA2211003010488
75,000 p.m.



Namrata Singh
RA2211003011061
75,000 p.m.



Vanguri Naikel Vivek
RA2211003011860
75,000 p.m.



Jatin Kumar
RA2211003010373
75,000 p.m.



Kavyasri V M
RA2211003010576
75,000 p.m.



Sabnam Begum Hazari
RA2211003011567
75,000 p.m.

Natwest



Aarya Menon
RA2211003010733
45,000 p.m.



Arpit Kumar
RA2211003010142
35,000 p.m.



Abhinav Singh
RA2211003010293
35,000 p.m.



Shreya Pal
RA2211003011887
35,000 p.m.



Saumya Verma
RA2211003010250
35,000 p.m.

Fidelity Investments

Western Digital



Ujjwal Agrahari
RA2211003012075
35,000 p.m.

Placement / Career Talks / Mock Interviews / Training Sessions Arranged

The Department of Computing Technologies has arranged a series of placement talks, mock interviews, profile-building sessions, and mentor-mentee programs designed to offer students practical experience and valuable insights regarding career opportunities. The Department of Computing Technologies has conducted 8 mock interviews, 3 mentor-mentee sessions in July, and 9 career talks online from July to September 2024.

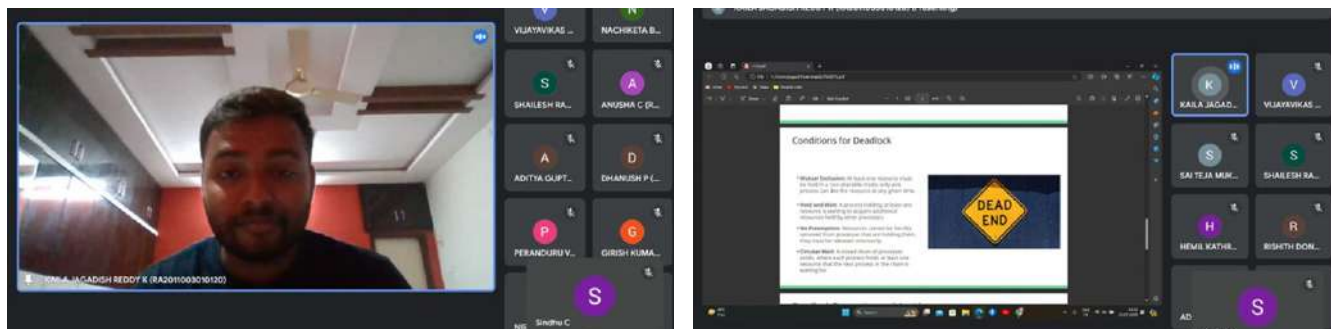
MOCK INTERVIEWS

Mock interviews provide final-year students with a simulated interview experience, helping them build confidence and improve their communication and problem-solving skills. Each session targeted a group of 10 students, equipping them with industry-ready skills and preparing them for real job interviews by providing constructive feedback and identifying areas for improvement.

S.No	Interviewer Name	Interviewer	Designation	Month
1	Mr. Harsh	Alumni	Software Engineer, UnifyApps	Jul-24
2	Ms. Modem Anuradha	Alumni	Placed in Barclays	Jul-24
3	Ms. Saaniya Qiazer	Alumni	Salesforce Developer, Accenture	Jul-24
4	Mr. Abhijeet Chawla	Alumni	Analyst, Capgemini	Jul-24
5	Mr. Ayush Srivastava	Alumni	Analyst, Latentview Analytics	Aug-24
6	Mr. Suryansh Indram	Alumni	Product analyst, Price easy AI	Aug-24
7	Mr. Dhanvanth Singari	Alumni	Data analyst, ICUBE	Aug-24
8	Mr. Sachin Singh & Mr. Nikhil Singh	Alumni & Industry Expert	Systems Engineer, TCS & Senior Software Engineer, Capegemini	Aug-24

MENTOR-MENTEE SESSIONS

Our faculty coordinator, Dr. C. Sindhu, Associate Professor, organized and conducted these sessions to provide students with valuable insights and experiences from alumni who have secured positions in reputed companies. We conducted three sessions in July 2024, primarily targeting below-average students who received training on interview-based operating system preparation, with a focus on core concepts from OS.



CAREER TALKS CONDUCTED

Our faculty coordinator, Dr. S. Iniyan, AP/CTECH, organized and conducted the career talks in association with the CTECH Placement Cell, with the aim of offering insights and guidance on navigating career paths and seizing opportunities in various emerging fields, such as web development, artificial intelligence/machine learning, data structures and algorithms, and AI-powered full stack development. The placement/career talks conducted from July to September 2024 covered the following topics:

- Exploring the Frontier: Careers in AR, VR, and Gaming
- Unlocking Business Potential with Microsoft Copilot
- Application of AI in UX Design: ChatGPT, Sora, and Midjourney
- Future-Proofing Your Career: Skills and Trends for Tomorrow's Job Market
- Exploring Opportunities: Career Development in the Tech Industry
- Mistakes & Learnings: Preparing for Competitive Coding in Placements
- Navigating the Future: Building a Successful Career in Software Development
- Building resilience in technical careers and higher education
- Navigating Your Career Journey: The Importance of a Strong Profile

Semester Abroad Program September 2024

On 25th September 2024, SAP-interested students participate in a session that explains the details of courses offered at DEAKIN University. Our students were given awareness of current trends in the IT industry and also the importance of AI, and GEN AI in the future. They also had an opportunity to discuss the internship offered by Professor Wang Li.



Faculty Corner

Our educators and researchers continuously strive for excellence, driving innovation and fostering a culture of academic brilliance. Here, we highlight their latest accomplishments, groundbreaking research, and impactful projects, demonstrating their dedication to advancing knowledge and enriching our academic community.



Journal Publications

Many faculty members of the Department have published research articles in the AIP Conference Proceedings: <https://pubs.aip.org/aip/acp/issue/3075/1>.

Kumar, A., Sharma, N., Marriwala, N. K., Panda, S., Aruna, M., & Kumar, J. (2024). Quantum machine learning with Qiskit: Evaluating regression accuracy and noise impact. *IET Quantum Communication*. <https://doi.org/10.1049/qtc2.12100>

Isah, B. A., Ponnuchamy, M., Rathi, B., Kumar, P. S., Kapoor, A., Rajagopal, M., Awasthi, A., & Rangasamy, G. (2024). Artificial intelligence-based neural network modeling of adsorptive removal of phenol from aquatic environment. *Desalination and Water Treatment*, 319, 100564. <https://doi.org/10.1016/j.dwt.2024.100564>

Elakya, R., & Manoranjitham, T. (2024). Transfer learning by VGG-16 with convolutional neural network for paddy leaf disease classification. *International Journal of Image and Data Fusion*, 1–24. <https://doi.org/10.108>

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Manoharan, M., Subramani, B., & Ramu, P. (2024). An optimal energy efficient routing in WSN using adaptive entropy bald eagle search optimization and density based adaptive soft clustering. *Sustainable Computing Informatics and Systems*, 43, 101003. <https://doi.org/10.1016/j.suscom.2024.101003>

Rong, R., Shravage, C., Mary, G. S., Blesswin, A. J., Gayathri, M., Karunqa, A. C. E., Shibani, R., & Sambas, A. (2024). Enhanced Semantic Visual Cryptography with AI-Driven Error Reduction for Improved two-dimensional Image Quality and Security. *Measurement Science and Technology*, 35(10), 105405. <https://doi.org/10.1088/1361-6501/ad5f4f>

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Gomathi, S., & Arunachalam, N. (2024). Skin Lesion Prediction and Classification Using Innovative Modified Long Short-Term Memory-Based Hybrid Optimization Algorithm. *International Journal of Computational Intelligence Systems*, 17(1). <https://doi.org/10.1007/s44196-024-00599-1>

Irene, D. S., Lakshmi, M., Kumar, L. R., & Kishore, T. R. (2024). ADC-RBK: a multimodal approach for early detection of chronic diseases and focusing on Alzheimer's. *Progress in Artificial Intelligence*, 13(3), 187–200. <https://doi.org/10.1007/s13748-024-00327-y>

Panyala, A. R., & Manickam, B. (2024). Generative adversarial network for Multimodal Contrastive Domain Sharing based on efficient invariant feature-centric growth analysis improved brain tumor classification. *Electromagnetic Biology and Medicine*, 1–15. <https://doi.org/10.1080/15368378.2024.2375266>

Ponnuviji N P, Nirmala E, Mary Harin Fernandez F, Anitha K (2024). ALRN-RCS: Advanced Approach to Network Intrusion Detection Using Attention Long-Term Recurrent Networks and Chaotic Optimization. *IETE Journal of Research*, 1–12. <https://doi.org/10.1080/03772063.2024.2370949>

Priyadharshini, A., Nithiya, S., Archana, H. A., & Jaganathan, S. C. B. (2024). Intelligent patient monitoring through hybrid consensus algorithm based blockchain technology. *Multimedia Tools and Applications*. <https://doi.org/10.1007/s11042-024-19840-2>

Umamaheswari, K., Kumaran, A. M., Shobana, J., Jeyaseeli, J. D., Sivashankari, K., & Safa, M. (2024). An efficient smart container design using the internet of things and its applications. *International Journal of System of Systems Engineering*, 14(4), 446–460. <https://doi.org/10.1504/ijssse.2024.139426>

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Murugan, S., Abiishek, G., Kumar, P., & Rubini, B. (2024, June). Next-Gen Driver Monitoring System. In *2024 6th Global Power, Energy and Communication Conference (GPECOM)*, IEEE, pp. 795–799

“Learning how to learn is life’s most important skill.”

Tony Buzan

Rubini, B., Karthick, R., Kalaiarasi, G., Saranya, S., Kumar, S. P., & Suganiya, M. (2024, June). *Performance Analysis Of Insulation Resistance Test And Cable Laying Installation In Library Block*. In 2024 6th Global Power, Energy and Communication Conference (GPECOM), IEEE, pp. 185-189.

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Singh, Aryaman Adivya, and D. Shiny Irene. (2024). *Inventory Management and Sales Prediction using XGBoost.* In 2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC), IEEE, pp. 1058-1061.

Sinha, R., Vennela, B. S., & Babu, S. (2024, June). *Early Diabetes Prediction using Machine Learning Algorithms*. In 2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC), IEEE, pp. 705-708.

Ragunthar, T., & Singh, Y. P. (2024, March). *SmartLens: Enhancing Factory Safety through Nvidia Deepstream-powered Camera-Assistive Surveillance and Analysis*. In 2024 5th International Conference on Innovative Trends in Information Technology (ICITIIT), IEEE, pp. 1-6.

Tripathy, V., Samanta, S., & Briskilal, J. (2024, May). *Leveraging Customer Sentiment Analysis with Deep Learning for Business Growth Forecasting and Product Flaw Identification*. In 2024 International Conference on Current Trends in Advanced Computing (ICCTAC), IEEE, pp. 1-7

Bajpai, A., Kesaria, A., & Briskilal, J. (2024, May). *Schizophrenia Detection using Electroencephalography Signals Using Deep Learning*. In 2024 International Conference on Current Trends in Advanced Computing (ICCTAC), IEEE, pp. 1-6.

Ganesh, P. S., Kiriti, C. M. G. K., & Rama, P. (2024, May). *HealthScan AI-Deep Learning-Based Multi-Disease Diagnosis from Medical Imaging*. In 2024 International Conference on Intelligent Systems for Cybersecurity (ISCS), IEEE, pp. 1-6

Sharma, R., Kowsigan, M., Kalra, E., & Gupta, A. (2024, April). *Real time people detection on entrance gate using signal processing*. In 2024 5th International Conference on Recent Trends in Computer Science and Technology (ICRTCST), IEEE, pp. 453-458.

Ghosh, M., Srivastava, D., & Kowsigan, M. (2024, April). *Intelligent Workforce Management: A Smart Biometric Approach to Optimal Staff Scheduling*. In 2024 5th International Conference on Recent Trends in Computer Science and Technology (ICRTCST), IEEE, pp. 503-509.

Rangrez, Usman Showkat, Syed Absar Qadri, C. Ashok Kumar, and C. Jothi Kumar. (2024). *Cyber-Attack Defense System Enhanced by Artificial Intelligence*. In 2024 International Conference on Intelligent Systems for Cybersecurity (ISCS), pp. 1-5.

Joshi, S., Hasan, B., & Brindha, R. (2024, June). Optimal Declarative Orchestration of Full Lifecycle of Machine Learning Models for Cloud Native. In 2024 3rd International Conference on Applied Artificial Intelligence and Computing (ICAAIC), IEEE, pp. 578-582.

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*It is possible to fly without
motors, but not without
knowledge and skill.
Wilbur Wright*

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Dr. Deepa R , Assistant Professor, won the Best Paper award at the IEEE ICEEICT 2024 conference in Trichy for her work on “Harvesting Knowledge: An Ontology Framework for Agricultural Advancement using NPL.” Her research was recognized for its innovative contribution to agricultural technology.

“We are approaching a new age of synthesis. Knowledge cannot be merely a degree or a skill... it demands a broader vision, capabilities in critical thinking and logical deduction without which we cannot have constructive progress.”

Li Ka-shing

Book chapter

- Kanchana, M., Naresh, R., Vinoth Kumar, C.N.S., Pandiaraja, P.(2024), *Improved mass detection in mammogram images with Dual Tree Complex Wavelet Transform and Fourier Descriptors*, *Artificial Intelligence in Medicine*, 2024, pp. 87–101, CRC Press, Taylor & Francis, eBook ISBN9781003369059
- J., Jayapradha, Lakshmi Vadhanie, Yukta Kulkarni, T. Senthil Kumar, Uma Devi M.. "Enhancing Algorithmic Resilience Against Data Poisoning Using CNN." *Risk Assessment and Countermeasures for Cybersecurity*, edited by Mohammed Amin Almaiah, et al., IGI Global, 2024, pp. 131-157. <https://doi.org/10.4018/979-8-3693-2691-6.ch008>.
- Metaheuristic and Machine Learning Optimization Strategies for Complex Systems*. Thanigaivelan R., Suchithra M., Kaliappan S., T. Mothilal Release Date: July, 2024 Copyright: © 2024 Pages: 427 DOI:10.4018/979-8-3693-7842-7 ISBN13: 9798369378427 ISBN13 Softcover: 9798369378434 EISBN13: 9798369378441 <https://www.igi-global.com/book/metaheuristic-machine-learning-optimization-strategies/349267>
- Metaheuristics Algorithm and Optimization of Engineering and Complex Systems*. Thanigaivelan R., Suchithra M., Kaliappan S., Mothilal T. Release Date: July, 2024 Copyright: 2024 Pages: 423 DOI: 10.4018/979-8-3693-3314-3 ISBN13: 9798369333143 ISBN13 Softcover: 9798369350027 EISBN13:9798369333150 <https://www.igi-global.com/book/metaheuristics-algorithm-optimization-engineering-complex/335467>.
- Suchithra.M. (2024). *Ensemble Machine Learning-Based Botnet Attack Detection for IoT Applications*. In: Kanak Kalita, Narayanan Ganesh, S. Balamurugan(eds) *Metaheuristics for Machine Learning: Algorithms and Applications*. (149-161). Wiley Scrivener Publishing LLC . <https://doi.org/10.1002/9781394233953.ch6>.

Faculty Upskilling

- Dr. S. Priya has completed the Master of Data Science Program through IITM Pravartak in collaboration with GUVI.
- Soshya Joshi attended "National Conclave on Role of Nation Builders in National Education Policy 2020- RNP-NEP-24" at SRM Institute of Science and Technology, Kattankulathur on 30th August 2024.
- Soshya Joshi attended FDP on "Phase 2 – of the Creators of Metaverse" an 8-hour augmented reality learning and workplace experience using Meta Spark Studio by AICTE and supported by Meta Platforms Inc., managed by 1M1B -12th August 2024.
- Soshya Joshi attended a workshop on "Innovative Pedagogical Practices & Tools for Effective Teaching Learning organized" at the Department of Computing Technologies, SRM Institute of Science and Technology, Kattankulathur, in association with IEEE Computer Society Madras Section on 26th July 2024.

Soshya Joshi completed the AICTE NPTEL certification course and FDP of "Theory of Computation" with an Elite certificate in September 2024.

Mani Deepak Choudhry attended the "Education for Sustainable Development" webinar by Emerald/HETL on 17th September 2024.

Dr. Anitha.R, Assistant Professor, participated in a one-day Faculty Immersive Workshop on "Transformative Teaching: Experiential Learning Methods to Inspire and Engage Young Minds." The workshop, held on 24th July 2024,

was led by Dr. Raj Ramachandran from Cardiff University, UK.

Dr.M.k.Vidhyalakshmi completed Level-1 of Cohort-1 of India Semiconductor Workforce Development Program (ISWDP) conducted by IISC Bangalore and Synopsis with 82.81 percentile.

Dr.K.R.Jansi and Mrs.S.P.Kanmani successfully completed the certification requirements for 'Certified Application Developer' (CAD Certification) in ServiceNow.

Design Patent Grant

Dr Santhanakrishnan C, Dr. Annapurani Panaiyappan , has received a design patent grant titled "AN IOT BASED SYSTEM FOR MONITORING ENVIRONMENTAL AND PHYSIOLOGICAL CONDITIONS" Intellectual Property Rights on 02nd July 2024 .

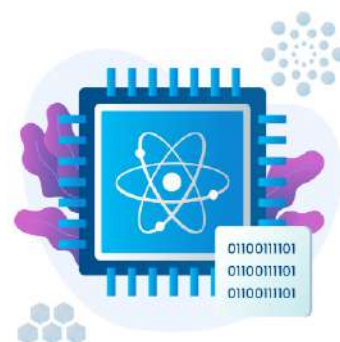
Dr.M.Kanchana,Ms.V.Jayanthi,Dr.R.Nithya,Mrs.S.Poonkodi & Dr.N.Jayapandian , has received a design patent grant titled "ROBOTIC DEVICE FOR AGRICULTURAL AND FOOD PRODUCTION ", Intellectual Property Rights on 13th September 2024.

"Writing is a skill, not a talent, and this difference is important because a skill can be improved by practice."

- Robert Stacy McCain

Quantum Computing

Incharge: **Dr. M. Pushpalatha**



The objective of this LAB is to support India's National Mission on quantum and bring SRMIST as one of the leading hubs for quantum Technologies across India.

The vision is to revolutionize computations by the usage of quantum computers by various algorithms to solve intractable problems, achieving quantum supremacy.

The mission is to seed, nurture, and scale up the research and development activities in the

Upskilling Activities

Dr.R.Thilagavathy and Dr.P.C.Karthick completed the NPTEL course on "Introduction to Quantum Computing: Quantum Algorithm and Qiskit", in September 2024.

Dr. M. Gayathri, Dr.Thilagavathy.R and Dr.G.K.Sandhia attended a one-day workshop on "Crafting Winning Research Proposals: Tips and Techniques" at SRM Institute of Science and Technology on 29th August 2024.

Dr.Gayathri M and Dr.Raghavendra have completed IBM quantum Challenge 2024 and earned credly batch from IBM.

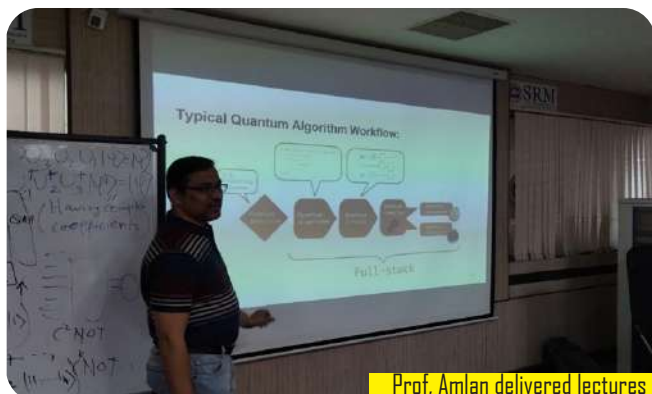
Events Organized

Prof. Ajanta Das covered a lecture on "Quantum simulation-QSim Simulation", on 7th September 2024 through an online mode.

Prof. Amlan delivered a lecture on "Quantum Fourier Transform and Quantum Phase Estimation", SRMIST KTR on 21st September 2024.

Prof. Amlan visited SRMIST-KTR campus from 29th July 2024 to 1st August 2024. He delivered a talk at the Computer Society INDIA SYMPOSIUM 2024 (CSIS) organized by Department of C.Tech in association with IEEE Computer Society. He also delivered lectures from 31st July 2024 and 1st August 2024 for about 4 hours each day on "Basics of Quantum Computing" to the vertical members of the C.Tech. He also engaged in discussions with various faculty members to identify research problem statements.

Prof, Amlan delivered an online lecture for about 2 hours on “Grover’s Search and Quantum Random walk Algorithms” on 10th August 2024. Furthermore, along with Dr. Jyothi engaged in online interaction with Prof. Pushpalatha on 27th August 2024 for about two hours. Regarding the initialization of digital water activities at the SRMIST KTR.



Prof, Amlan delivered lectures on “Basics of Quantum Computing”



MoUs / Collaboration

MOU with the artificial brain is initiated to launch the industry-supported elective “Quantum Communication and Cryptography”.

MNDA with QRACE was initiated to renew this year by Dr.M.Pushpalatha and Dr.G.Usha.

Research Proposal(s)

Dr.M.Gayathri, Dr.M.Pushpalatha and Dr.G.K.Sandhia submitted a proposal titled “Quantum Encryption Algorithm” to TTDF in September 2024.

Research Outcomes

Journal Publication

Dr M L Sworna Kokila, Dr V Bibin Christopher, Dr G Ramya (2024), “Enhanced Power System Fault Detection Using Quantum-AI and Herd Immunity Quantum-AI Fault Detection with Herd Immunity Optimisation in Power Systems”, Journal IET Quantum Communication, 5(3), pp.1-9, DOI: 10.1049/qtc2.12106

Patent

Dr.S.Ramesh has published a patent titled “Cryogenic Memory Systems for Ultra-low Power Quantum”, Indian Patent on 30th August 2024.

Book Chapter Publication

Dr.G.Usha (2024). A Revolutionary Approach of Quantum Computing With Its Future Applications. In the Quantum Evolution Application of AI and Robotics in the Future of Quantum Technology , CRC Press Taylor & Francis Group. DOI: <https://doi.org/10.1201/9781032642079>

Dr. G.Usha (2024). Quantum Computing Cybersecurity Exploring the Potential of Quantum Machine Learning Techniques in Intrusion Detection. In the Quantum Evolution Application of AI and Robotics in the Future of Quantum Technology. CRC Press Taylor & Francis Group. DOI: <https://doi.org/10.1201/9781032642079>.

Targets for Next three Months

1) Setting up of hardware lab with the following Components

QKD KIT

Quantum Eraser Kit

QRNG KIT

2) Publish papers in Journal and Conference

3) To conduct a Hackathon in quantum

“The universe is a quantum computer. Since you can simulate any set of particle interactions with a quantum computer made of the same number of particles, then there’s no practical difference between the universe and a quantum computer simulating the universe.”

~David Walton

Visual Computing



Incharge: **Dr. S. Sridhar**

Upskilling Activities

Dr. S. Sivakumar, Assistant Professor completed NVIDIA Course on "Getting Started with Deep Learning" on 10th September 2024.

Dr. S. Sivakumar participated in a workshop on "Innovative Pedagogical Practices & Tools for Effective Teaching Learning" in SRMIST, KTR in association with IEEE Computer Society, Madras Section on 26th July 2024.

Technical Talk

Dr. S. Sivakumar, Assistant Professor, delivered an expert talk on "Emerging Trends in AI" at the Department of Information Security, SIMATS Engineering, SIMATS, Thandalam, Chennai, on 09th September 2024.

Online Resource Creation

Dr. S. Sivakumar, Assistant Professor in Computing Technologies, published the first course titled "Obesity Prediction Using Machine Learning a Practical Approach", on Udemy. This course has offered five main sessions, with recorded video lectures for 1.5 hours and quizzes at the end of each session.

Events Organized

Dr. S. Sivakumar organized a workshop on "Deep Learning for Healthcare Image Analysis" in SRMIST, KTR in association with NVIDIA from 04th – 05th September 2024.

Dr. S. Sivakumar organized a workshop on "National Conclave on RNP-NEP 24" in SRMIST, KTR, on 30th August 2024.

Dr. M. Aruna & Dr. B. Arthi organized a one-day SUMMIT VC 1.0: Unleashing the Power of Computer Vision on 29th August 2024.

Highlights

Panel Discussions & Tech Talks: CEOs, CTOs from the AR/VR Industry, and Academicians from Foreign Universities. Pitch ideas and explore internship opportunities.

VR Gaming Zone: Experience cutting-edge virtual reality, sponsored by “Madras Mindworks”.

Anime Bootcamp: Explore anime-style clothing at a boot camp by “And That’s Anime”.

Project Expo: VCRC Team



SUMMIT VC I.O: Unleashing the Power of Computer Vision

Outreach

Organized an One-day Outreach Activity “From Challenges to Champions: Overcoming Obstacles” at Good Life Centre on 20th September 2024.



Outreach Activity “From Challenges to Champions: Overcoming Obstacles”

MoUs / Collaboration

Dr.B.Arthi & Dr.M.Aruna have signed an NDA with ASVRL for an Industry Internship Project in AR/VR with 5 students.



MoU with NDA with ASVRL

Research Outcomes



HackRush Hackathon on the topic of AI and Hardware-based solutions for sustainability

Red Bull Basement, is a collaborative initiative by Cherry+ Network, Red Bull, and Microsoft AI. The 18-hour Ideathon was divided into five tracks: Edtech, Foodtech, Open Innovation, Generative AI, and Fintech from 29th August to 31st August 2024.

Prize: Red Bull Hamper and a possible chance to attend the International Tokyo Hackathon

Position: 1st Team: Aryan Mehra, Bharath Kumar Mishra, Sagal Preet Singh, Ashmitha Mohan



Ideathon

Aryan Mehra [RA2211003010838], Arnab Agarwal [RA2211003010845], SagalPreet Singh [RA2211003010827], Siddharth Singh [RA2211004010113] participated in the HackRush Hackathon on the topic AI and Hardware-based solutions for sustainability organized by QDC held on 30th September 2024- 1st October 2024 and bagged Runner Up position with Prize: 300\$ worth Google Cloud

Dr. Sridhar SS, Dr. Aruna M, Dr Arthi B participated in the IET Industry Institute Summit (IIS) 6.0 held on 26th September 2024 at Vivanta.



IET Industry Institute Summit (IIS) 6.0

Advanced Multilingual Computing

Incharge: **Dr. C.N. Subalalitha**

Upskilling Activities

Dr. Srinivasan R, Assistant Professor, participated in the India Research Network event held on 21st August 2024. The event, themed "Generative AI and Emerging Technological Horizons," took place at the Samsung R&D Institute in Bangalore.

Dr. Anitha.R, Assistant Professor, participated in the 5-day 2024 ACM International Level Refresher Course on "Unleashing Creativity: Harnessing the Generative AI for NextGen Innovation." The course, conducted in online mode from August 12th to 16th, 2024 at SRM Institute of Science and Technology (SRMIST)

Resource Person

Dr. Subalalitha C.N. served as a resource person for an online session titled "Use Cases of Large Language Models in Industry 5.0" at the International Conference on "Interface of Language and Literature with Technology in the Era of Industry 5.0," organized by the Department of Humanities and Social Sciences at Sri Venkateshwara College of Engineering (SVCE), Chennai, on 8th August 2024.

Dr. Subalalitha C.N. served as a resource person for an online session titled "Revolutionizing Industries: The Transformative Power of Generative AI and Large Language Models" at the AI Research Conclave organized by Accrete AI, Maharashtra, on 18th July 2024.

Events Organized

The National Tamil Computing Conclave (KaniTamil) 2024, held on 5th and 6th August 2024 in offline mode, focused on advancing Tamil's role in digital technologies under the Advanced Multilingual Computing vertical. Organized by conveners Dr. Subalalitha C.N, Dr. Jai Ganesh, Dr. J. Jegathratchagan, Mr. Balasubramaniam, and Dr. Uma Maheswari KM, with co-conveners Dr. S. Girirajan, Dr. G. Manoj Kumar, and Dr. R. Rajkumar, the event brought together scholars and experts to explore innovations in Tamil computing and fostered knowledge-sharing through Faculty Development Programs (FDPs).



Research Outcome

Journal Publication

S. Swaminathan and C. Malathy, (2024), "PM2.5 Concentration Estimation Using Bi-LSTM with Osprey Optimization Method", Nature Environment and Pollution Technology, 23(3), pp. 1631-1638. DOI:10.46488/NEPT.2024.v23i03.033

Suchithra, M., Shashwat, K., Khan, M.S. (2024). Predicting Hospital Length of Stay Using Light Gradient Boosting Machine Regression. In: Owoc, M.L., Varghese Sicily, F.E., Rajaram, K., Balasundaram, P. (eds) Computational Intelligence in Data Science. ICCIDS 2024. IFIP Advances in Information and Communication Technology(Q3), vol 718. Springer, Cham. https://doi.org/10.1007/978-3-031-69986-3_37 eISBN :978-3-031-69986-3.

Conference Publication

Shaik Hussain Ahamed; Kethamreddy Rithesh Kumar Reddy; L.K. Shoba, 92024), Enhancing Education with NLP-through AI-Enhanced Q&A Evaluation and Testing using Leveraging algorithms In Proceedings of the 2024 International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI), DOI:10.1109/ACCAI61061.2024.10601923



Accelerated Computing

Incharge: **Dr.B.Amutha**



Upskilling Activities

Dr. D. Malathi attended one day workshop on “Innovative Pedagogical Practices and Tools for Effective Teaching Learning” at SRM Institute of Science and Technology, on 26th July 2024.

Technical Talk

Dr. D. Malathi, Professor, delivered an expert talk on “Research Quality Metrics and Indices” at SRM Institute of Science and Technology organized by the Department of Computational Intelligence, on 10th August 2024.

Events Organized

Dr. Deeban Chakravarthy (Convener), Asso. Professor, Dr.B.Amutha (Co-Convener), Professor, Dr. R. Jeya (Co-Convener), Asso. Professor, Dr. D. Malathi (Co-convener), Professor organized 5-days FDP on “AI Intensified Scientific Accelerated Computing (AIISAC) in Interdisciplinary Applications” at SRM Institute of Science and Technology, from 23rd – 29th September 2024.



FDP on “AI Intensified Scientific Accelerated Computing (AIISAC) in Interdisciplinary Applications.

Research Outcome

Journal Publication

Shanthalakshmi .M, R.S.Ponmagal (2024), "An intelligent Dynamic Cyber-Physical System Threat Detection System for Ensuring Secured Communication in 6G Autonomous Vehicle Networks", *Scientific Reports*, 14(1), pp. 1-21. DOI: <https://doi.org/10.1038/s41598-024-70835-3>

Batoul Aljjadough, D. Malathi and Feisal Alaswad (2024), "Multimodal Disease Detection and Classification Using Breath Sounds and Vision Transformer for Improved Diagnosis", *Procedia Computer Science*, vol.235, pp. 1436–1444. <https://doi.org/10.1016/j.procs.2024.04.135>

Patent

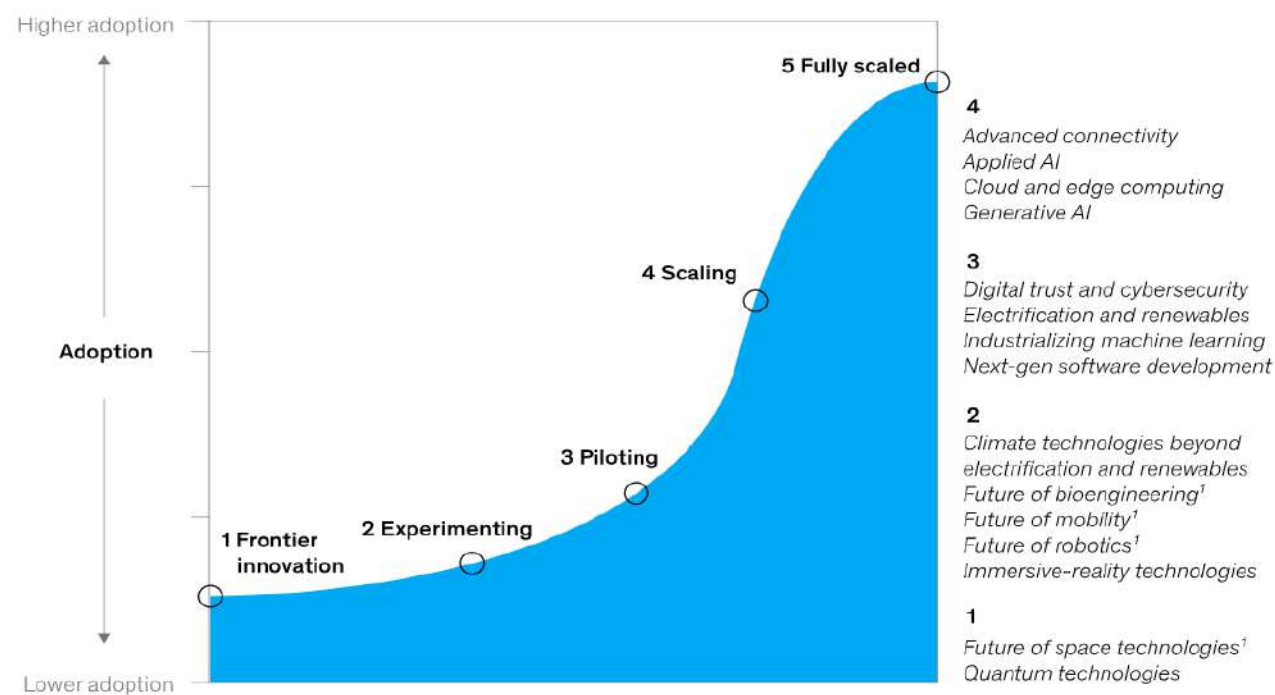
R.S.Ponmagal received a design patent grant titled, "6G WiFi Antenna", Intellectual Property Rights on 8th August 2024.

Dr. D. Malathi, Ruvina Caroline and Dr. J D Dorathi Jayaseeli received a design patent grant titled, "A System for Human Concentration Level Recognition", Intellectual Property Rights on 28th August 2024.

Dr. J. D. Dorathi Jayaseeli and Dr. D. Malathi received a design patent grant titled, "An Internet of Things Based System and Method for Automation and Security of a Premises", Intellectual Property Rights on 31st August 2024.

Technologies progress through different stages, with some at the leading edge of innovation and others approaching large-scale adoption.

Adoption curve of technology trends, adoption score



<https://www.mckinsey.com>

Theoretical Computing

Incharge: **Dr. K.Vijaya**



- Upskilling faculty members to carry out research in theoretical aspects of computer science.
- Collaborate with Institutes of repute and carry out collaborative research in core domains like Algorithms, Programming, Compilers, Computation, and Logic.
- Introduce new Programs, Courses, and Certification courses to enhance the student's ability to develop optimal solutions.

Events Organized

STTP

Theoretical Computer Science Organized a Short Term Training Program in "Stochastic and Random Process Modelling for Real-Time Events" in SRMIST, KTR, from 26th - 30th August 2024. The vertical invited various resource persons from reputed institutes and organizations. Total No of Participants – 82. The event was convened by Dr.M.Kowsigan, Associate Professor, Dr.S.Babu, Associate Professor Dr.S.Nalini, Assistant Professor and Dr.Ajanthaa Lakkshmanan Assistant Professor.

Day 1 sessions Applications of Stochastic Process in Machine Learning was handled by Dr.S.Ramamoorthy, Prof/CTECH, SRMIST and Stochastic Math Modeling for IoT devices and Smart Environments was handled by Dr. G. R. Kanagachidambaresan, CEO/R&D, EazyThings Technology Private Limited.

Day 2 sessions topics Stochastic Models and Inventory Theory, Bayesian Optimization and its Applications were handled by Dr. Neelesh S. Upadhye, Professor, IITM.

Day 3 sessions Stochastic Models for Network Performance was handled by Prof. Y. Chandramouli, Chennai Mathematical Institute, and Performance Analysis of IoT using Queueing Theory was handled by Dr. K. V. Vijayashree, Professor, Anna University Guindy.

Day 4 sessions Markovian Decision Process for Complex Systems and Markovian Decision Process for Complex Systems - Hands-on were handled by Dr. Masilamani V, Professor, IIITDM, Kanchipuram.

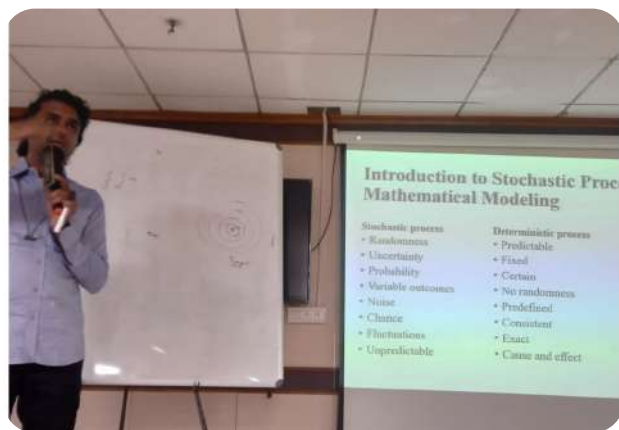
Day 5 sessions Stochastic Optimizations for Autonomous Mobile Camera Robot Navigations and Stochastic Visual Analysis for Pedestrian Safety and Beyond Were handled by Dr. Rahul Raman Professor, IIITDM, Kanchipuram

Research Outcomes

Henning Fernau, Lakshmanan Kuppasamy, Indhumathi Raman, (2024), "Counting Simple Rules in Semi-Conditional Grammars Is Not Simple" In Proceedings of the 2nd International Conference on Data 20th International Conference "Computability in Europe" CiE2024 at University of Amsterdam, published by LNCS, Springer pp. 192-204.

Target for the Next 3 Months

- 2 publications per faculty member.
- 50% of the member's upskill by registering for an online course about Theoretical Computing.



Short Term Training Program in "Stochastic and Random Process Modelling for Real-Time Events"

Green Computing

Incharge: **Dr. E. Poovammal**



- Exploring approaches to reduce power consumption, improve electronic waste recycling, and enhance the overall sustainability of computing systems.
- Offering training programs, workshops, and educational materials to raise awareness about the environmental impact of computing.

Upskilling Activities

Dr. Madhura, Dr. Nikkath Bushra attended a workshop on “Hyper Ledger Fabric” at SRM Institute of Science and Technology from 9th -14th September 2024.

Soshya Joshi attended a five days FDP on Harnessing Green IT: Transforming Tomorrow's Challenges to Innovation” at the Department of Computing Technologies, SRM Institute of Science and Technology, Kattankulathur from 27th September 2024 to 3rd October 2024.

Dr. M. K. Vidhyalakshmi attended FDP on “Accelerated AI-Driven Business Innovation: The Role of CPUs, GPUs, TPUs, and NPUs” at S.A Engineering College from 16th – 22nd August 2024.

Dr. M. K. Vidhyalakshmi served as a reviewer for the Journal “Earth Science Informatics”, Springer Nature Journal on 12th September 2024.

Events Organized

Green Computing Vertical organized a one-day hands-on workshop on “Business Application with Low Code / No Code” at the Department of CTECH, SRMIST, KTR Campus on 9th September 2024.



FDP on “Harnessing Green IT: Transforming Tomorrow's Challenges to Innovation”

Green Computing Vertical organized a Five Days FDP on “Harnessing Green IT: Transforming Tomorrow’s Challenges to Innovation”, at Department of CTech, SRMIST, KTR Campus from 27th September 2024 to 3rd October 2024.



Green Computing Vertical organized a “Roboracer Competition” on 6th August 2024 at TP1509 (ISD Lab). The cash prize was given to the winners who made the custom bot to race on the track.



Research Outcomes

Conference Publications

R. Madhura, S. Nikkath Bushra, A. Syed Ismail and H. PK, (2024), Oil Spill Detection Using 2D Convolution Neural Network and Generative Adversarial Network In Proceedings of the 2024 International Conference on Expert Clouds and Applications (ICOECA), Bengaluru, India, (pp. 785-791). DOI: 10.1109/ICOECA62351.2024.00140.

R. Madhura, S. N. Bushra, D. P. P and S. P, (2024), Virtual Palette: An Efficient Object Tracking Tool In Proceedings of the 2024 2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS), Coimbatore, India, (pp. 642-645). DOI: 10.1109/ICSCSS60660.2024.10625149.

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e-Yantra

Incharge: **Dr.R.I.Minu, Professor**



Events Organized

Two days workshop on the Industrial Internet of Things (IIoT) was conducted on 7th and 8th August 2024 to explore the application of smart sensors and actuators in association with ACM-W, e-Yantra, IIT Bombay. The workshop provided valuable insights into the rapidly growing field of Industrial IoT. It demonstrated how IIoT is revolutionizing various industries by enabling more efficient, safe, and reliable operations.

Some of the highlights are:

- Software packages and Training Materials (eBooks) were given to all the participants.
- Authorized Certification from Innovians Technologies & Technex'24 IIT BHU, Varanasi was given to all the participants.
- Certificate of Excellence was given to the Zonal Round Winners of Industrial IoT Competition conducted at the Zonal Center from TECHNEX'24, IIT VARANASI in association with Innovians Technologies.



Workshop on the Industrial Internet of Things (IIoT)



E-Yantra TechFusion 2024 was organized by our eYantra lab on 20th August 2024 in collaboration with eYantra-IIT, Bombay. The event showcased the Finale of the Teachers Robotics Competition and a Technical Session was handled by their experts in "Exploring Robotics Simulators: Comparative Insights on Gazebo, CoppeliaSim, and Webots". The winners' teams were announced by Prof Kavi Arya, IIT Bombay through online.



E-Yantra TechFusion 2024

Department Events

10

July

2024

Interview Mastery: Effective Strategies for Career Advancement

Dr.G.K.Sandhia, Dr.Jeya and Dr.B.Muruganantham hosted an insightful event featuring Ms. Sunita Shenoy, an esteemed expert in career development and talent acquisition. Ms. Shenoy opened the session by emphasizing the importance of preparation. She highlighted that it is crucial to understand the company, its culture, and the specific role one is applying for.



Job Interview Mastery: Effective Strategies for Career Advancement

15-19

July

2024

Full Stack Development

Dr.Jeya, Dr.B.Muruganantham, Dr.G.K.Sandhia, and Dr. T. SenthilKumar conducted Five Days Add-on Course on "Full Stack Development" from July 15th to July 19th, 2024 at our Computing Technologies Department. Full stack development is a critical skill in the modern tech industry, enabling developers to handle both client and server-side aspects of web applications. This course is meticulously designed to provide hands-on experience and in-depth knowledge.



Inauguration of Full Stack Development



23

July

2024

Lenslumina- A Contest on Short Film and Photography

Lenslumina Photography event, held on July 23, 2024, by CTech Association (FUTURIX) in collaboration with IEI, showcased stunning visual art from talented student photographers. The event captured diverse perspectives on nature, culture, and urban life. Attendees praised the high-quality exhibits and appreciated the opportunity to learn from industry professionals.



26

July

2024

Innovative Pedagogical Practices & Tools for Effective Teaching-Learning

A one-day workshop on "Innovative Pedagogical Practices & Tools for Effective Teaching-Learning," held on July 26, 2024, introduced cutting-edge strategies for enhancing classroom experiences. Faculty members explored digital tools, active learning techniques, and assessment innovations. The event was well-received, with participants praising its relevance to modern education needs.



Inauguration - Innovative Pedagogical Practices & Tools for Effective Teaching-Learning

27-28**July****2024**

FOSS Hack 2024

FOSS Hack 2024, a 24-hour hackathon centered around Open-Source Software, was organized by the Department of Computing Technologies, SRM Institute of Science and Technology (SRMIST), Kattankulathur, from 27th to 28th July 2024. FOSS United India sponsored the event to promote innovation and collaboration within the open-source community. Dr. M Eliazar, the convenor of the event, brought together talented minds with a passion for free and open-source software (FOSS).



Inauguration of FOSS Foundations

29-31**July****2024**

Inaugural ceremony of IEEE CSIS - 2024

The IEEE Computer Society Symposium 2024, hosted by SRM Institute of Science and Technology, Department of Computing Technologies, was held offline from July 29-31, 2024. The event included diverse sessions like tech talks, workshops, and an ideathon, attracting 303 participants, including students, professionals, and industry experts. Highlights included sessions on AI, networking, entrepreneurship, and product management. The symposium provided a platform for knowledge-sharing, networking, and collaboration, with insights from renowned speakers.



Inaugural ceremony of IEEE.CSIS - 2024

02

Aug

2024

Barclays “Data Trek - Analytics Immersion Program”

Dr. U.M. Prakash, Dr. G.K. Sandhia, and Ms. M. Ranjani, in collaboration with the Barclays team, successfully conducted a value-added course on DataRek Analytics for final-year students. The course culminated in a completion ceremony after three months of intensive, hands-on learning, equipping students with valuable analytics skills. Students gained hands-on experience in advanced analytics tools and techniques, enhancing their data-driven decision-making skills. The program was praised for bridging academic knowledge with real-world industry applications, providing invaluable career insights.



Barclays - Datarek - Analytics immersion programme - Value added course completion ceremony

02

Aug

2024

Honoring excellence

On August 2, 2024, a special ceremony was held to honor the excellence of faculty advisors and second-year students. The event recognized outstanding contributions and achievements, celebrating their dedication and commitment to academic and personal growth. Both faculty and students were commended for their hard work and leadership.



Honoring excellence for faculty advisors and students of current second-year

05

Aug

2024

SAP Introduction Program- Spring Admission 2024-25

The SAP Introduction Program is designed to provide students with insights into one of the most widely used enterprise resource planning (ERP) systems. This event aims to raise awareness among 3rd-year students about the opportunities SAP certifications can offer, the application process, and how they can benefit from this program in their academic and professional careers.

14

Aug

2024

Campus Quest

Coding Ninja Club SRM successfully conducted Campus Quest 3.0, an annual Competitive Coding Competition on 14 August 2024. The event was conducted in two phases for first- and second-year students. The event received over 400 registrations with 160 participants competing in teams of 2-4 to showcase their coding and problem-solving abilities. Over 52 challenges were given to students to showcase their programming skills.



14

Aug

2024

Advances and Innovations in AI & ML: Hands-on" workshop

"Advances and Innovations in AI & ML: Hands-on" workshop, held on August 19, 2024, provided participants with practical experience in cutting-edge AI and machine learning technologies. Attendees explored the latest advancements through interactive sessions and real-world applications. The workshop was highly appreciated for its focus on hands-on learning and innovative techniques



22

Aug

2024

First year Orientation-New Student Orientation Programme 2024

The Department of Computing Technologies (CTECH) hosted a first-year orientation program on August 22, 2023, to welcome new students and introduce them to the myriad opportunities at SRMIST. The program began with an address by Prof. Dr. Revathi Venkataraman, Chairperson of the School of Computing at SRMIST, highlighting the departmental activities and opportunities. A video showcased the CTECH Department's achievements.

Prof. Dr. M. Pushpalatha, Head of the Department, presented insights into the Department's structure and research areas. Prof. Dr S.S. Sridhar narrated the teaching methodologies, the curriculum, and interdisciplinary research activities. Dr B. Muruganantham outlined the Anti-Ragging Committee's role and created a strong awareness among the students. Dr. B. Kanisha highlighted the Department Association's benefits and encouraged the students to actively participate. Dr. Deepan, Dr. Abirami, Dr. Baranidharan and Dr. Priya Academic advisors, ensured an engaging experience and guided the students on a campus tour led by the Faculty Advisors.



First year Orientation for batch 2024-2029

28

Aug

2024

IEEE CS DVP LECTURE AND A MII ICT QUIZ ON “ SMART FARMING “ AGRICULTURAL TRANSFORMATION USING IoT, WSN And AI”

The IEEE Distinguished Visitor Program (DVP) lecture, organized by the Department of Computing Technologies at SRM Institute of Science and Technology on August 28, 2024, featured a tech talk on the theme “Smart Farming: Agricultural Transformation Using IoT, WSN, and AI. The offline event was attended by 150 students and led by Mr. Mohamed Rawidean, IEEE Computer Society Region 10 Coordinator and R&D Manager at MIMOS, Malaysia. The talk focused on how IoT, Wireless Sensor Networks (WSN), and Artificial Intelligence (AI) are driving the transformation of traditional farming into precision agriculture. It emphasized the role of real-time data collection and automation in enhancing crop yields, resource management, and sustainability. The session ended with an interactive ICT quiz led by Mr. H. R. Mohan, IEEE Senior Member. The event was a success, offering students valuable insights into the technological advancements in the agricultural sector.



IEEE CS DVP Lecture And A Mii ICT Quiz On " Smart Farming " Agricultural Transformation Using Iot, Wsn

01

Sep

2024

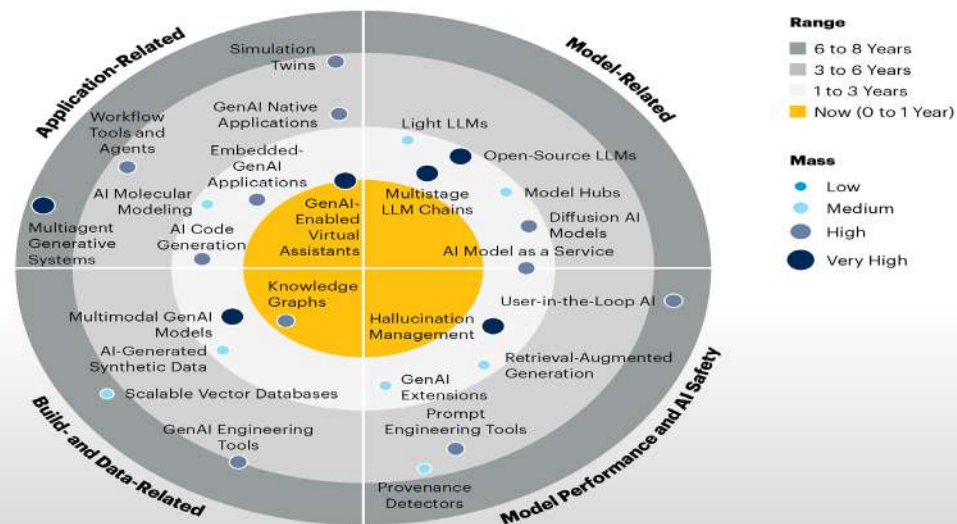
Pitch perfect - Connecting minds , Creating Startups, in association with IEEE-computer Society and Funded by IEEE SPAX.

"Pitch Perfect - Connecting Minds, Creating Startups" was organized in collaboration with the IEEE Computer Society and funded by IEEE SPAX. This event focused on fostering innovation and entrepreneurship by bringing together creative minds to build startups.



Inauguration of PITCH PERFECT

Impact Radar for Generative AI



Source: Gartner
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Gartner

11

Inauguration ceremony of Computer society of India, SRM-KTR STUDENT BRANCH

Sep

2024

The inauguration ceremony of the Computer Society of India, SRM-KTR Student Branch, took place on September 11, 2024. The event marked the official launch of the student branch, providing a platform for students to engage in various technical and professional development activities. This initiative aims to foster a strong community of aspiring technologists, encouraging collaboration, innovation, and knowledge-sharing among students at SRM Institute of Science & Technology.



Inauguration ceremony of Computer society of India, SRM-KTR STUDENT BRANCH

12

Training Program on AR/VR Tools for E-learning conducted for programmers upskilling

Sep

2024

On September 12, 2024, a Training Program on AR/VR Tools for E-learning was conducted to upskill programmers. The program focused on integrating augmented and virtual reality technologies into educational content, enhancing interactive learning experiences. Participants gained valuable insights and practical skills for incorporating AR/VR tools into e-learning platforms.



Training Program on AR/VR Tools for E-learning conducted for programmers upskilling

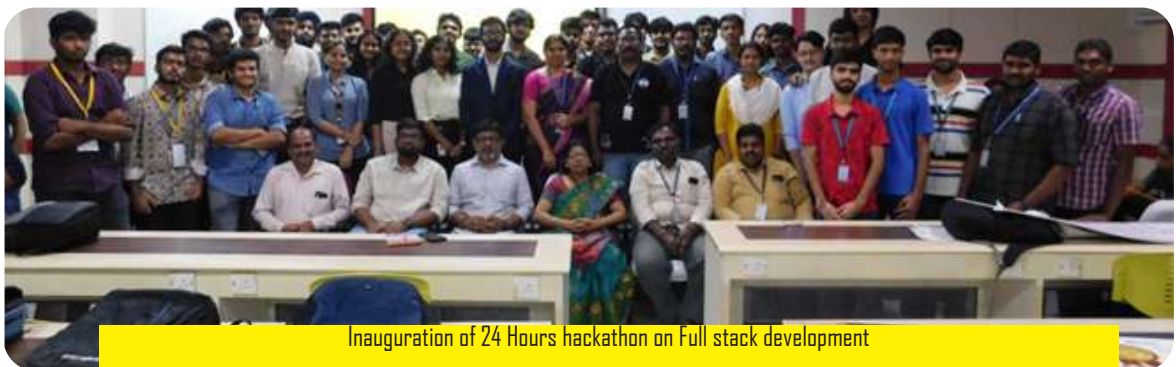
13

Sep

2024

24 Hours Hackathon on Full Stack Development

The Department of Computing Technologies successfully organized a Full Stack Development Hackathon on September 13, 2024. This event brought together talented participants to showcase their skills in full-stack development. The competition was intense, and the winners were rewarded with impressive cash prizes. The team that secured first place was awarded ₹50,000, while the second-place team received a cash prize of ₹20,000. The hackathon provided an excellent platform for innovation, collaboration, and skill development in the field of web and software development.



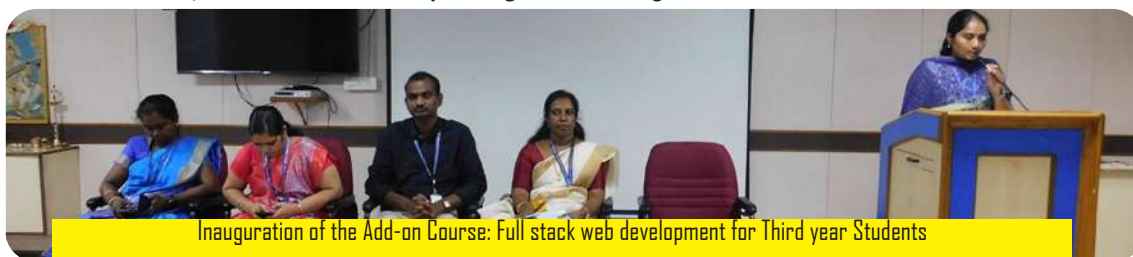
13

Sep

2024

Inauguration of the Add-on Course: Full stack web development for Third year Students

On September 13, 2024, the inauguration of the Add-on Course in Full Stack Web Development took place for third-year students. The course aims to equip students with comprehensive skills in both front-end and back-end web development, preparing them for advanced industry challenges and opportunities. The launch event marked the beginning of an intensive and practical learning journey. The event was convened by the third-year Academic Advisors: Dr. P. Saranya, Dr. S. Poornima, and Dr. Jothikumar, and co-convened by Dr. B. Kanisha, Associate Professor, Department of Computing Technologies



Inauguration of the Add-on Course: Full stack web development for Third year Students

28

SEP

2024

Inauguration of Department Association

The Association of the Department of Computing Technologies, named FUTURIX, was inaugurated on September 28 under the theme "Where Imagination Ignites a Limitless Tomorrow." The event commenced with a Tamil prayer, followed by the anchor introducing the staff members and the Chief Guest, Harish Damodharan, Senior Associate Consultant at Infosys. Dr. B. Kanisha, Association Convener and Associate Professor in CTECH, introduced the list of FUTURIX office bearers during the event.

The Chief Guest shared his inspiring journey, emphasizing the importance of education and the vast opportunities available to Indian youth. He encouraged students to be innovative and creative in solving problems.

Dr. M. Pushpalatha, Associate Chair, School of Computing, and Dr. Niranjana, Head of the Department offered felicitations. The event concluded with all attendees standing for the National Anthem.



Inauguration of Department Association

PROFESSIONAL SOCIETY AND STUDENT CLUB ACTIVITIES

SRM ACM STUDENT CHAPTER

Ambassador Award

Dr. Suchithra M, Associate professor was awarded as 2023 - 24 Ambassador for ACM, by Association of Computing Machinery(ACM)

SRM ACM Hackathon Pair Programming

The SRM ACM Hackathon was a three-day event that seamlessly blended innovation, collaboration, and technical excellence, engaging 88 teams in intense coding sessions and project development. The event was organized by Dr. Suchithra M., with Dr. D. Vinod, Mr. Prabushankar, Dr. Divya Mohan, Dr. Pretty Diana Cyril C, Dr. G. Ramya , Dr. Shiju Kumar PS, Dr. Priyadharshini, Dr. Deepajothi S , Dr. Anbazhagu UV, Dr. SS Saranya, Mrs. Ranjani N and Mrs. Ramya M. JaAssure, Singapore, shared the problem statements and encouraged the participants, offering cash prizes to the winners.

The event kicked off with a welcome address by Dr. G. Ramya. Ms. S. Sathyapriya, Associate Director of the Career Development Center at SRMIST, highlighted the significance of innovation in technology during her inaugural address. Teams brainstormed project ideas and began initial development, with 44 teams advancing to the next round.

On Day 2 (Coding Marathon), participants focused on refining their projects, building core features, and resolving bugs through collaborative practices such as pair programming. Mentors provided valuable guidance, enabling teams to prepare functional prototypes. By the end of the day, 37 teams qualified for the final evaluation.

On Day 3 (Final Showcase), teams presented their projects to a panel of industry experts, led by Mr. Wasim from JaAssure, with live demonstrations and technical explanations. The judges evaluated the projects based on creativity, functionality, and execution, offering constructive feedback.

The event was successfully concluded on a high note by Dr. Pushpalatha M, Head of the CTech Department, who emphasized a key outcome: a paid internship opportunity at JaAssure for the selected students. The winners were honored with cash prizes: ₹15,000 for the 1st prize (Team BBSx2 – Sahil Gupta, Sohan Thanigai Murugan, Padmashree), ₹10,000 for the 2nd prize (Team Neo – Kaushik Umesh Chandra, Anushka Pandey), and ₹5,000 for the 3rd prize (Team In Ctrl – Sneha Puri, Agrasen Rai).



Check In Kattankulathur, Tamil Nadu, India
TP714..computing lab.F.Tech park, SRM Nagar, Potheri, Kattankulathur, Tamil
603203, India



Event Glimpse of SRM ACM Hackathon Pair Programming

International Level Refresher Course - Unleashing Creativity : Harnessing The Generative AI For Nextgen Innovation

The International Level Refresher Course titled "Unleashing Creativity: Harnessing the Generative AI for NextGen Innovation" was organized in association with SRM ACM Student Chapter and the Advanced Multilingual Computing vertical was organized from 12th August 2024 to 16th August 2024, in an hybrid mode. The event was convened by Dr. M. Suchithra, Associate Professor, Dr. Srinivasan R, Assistant Professor, and Dr. C. Pretty Diana Cyril, Assistant Professor, and co-convened Dr. Divya Mohan, Assistant Professor.

On 12th August 2024, Dr. Rajeswaran V (Senior Director, Capgemini), an expert, covered the topic of Fundamentals of Generative AI. He provided an overview of generative AI concepts, with a focus on creating text, images, and music by learning patterns from data.

Dr. Tahir Mahmood from Dongguk University in South Korea explored the use of generative AI in healthcare projects on August 13, 2024. He focused on healthcare applications, including deep learning analysis for kidney cancer and hands-on sessions on healthcare-focused AI projects.

On August 14, 2024, we organized two sessions. Mrs. Sharmila Devi (Senior Technical Lead, USA) handled the morning session on Applications and Use Cases, which addressed business use cases in marketing, customer service, and content creation, as well as ethical concerns such as data privacy, misinformation, and AI bias. Dr. Bhargav Sagiraju, an expert from the National University of Singapore, led the second session on virtual assistants and GPT tools. We delved into virtual assistants, automated processes powered by GPT, and the RAG method to enhance precision while emphasizing the privacy and equity issues of generative AI.

On 15th August 2024, Dr Shahzad Ahmed (Hanyang University, South Korea) covered GANs, VAEs, and applications for medical sensors using machine learning and demonstrated LSTM networks for human activity recognition using smartphone data.

Day 5 (16.08.24) covered topics such as the application of generative AI in software engineering, along with future trends and directions. In Session 1, Dr. Ganesh Neelakanta Iyer (National University of Singapore). Discuss AI in automating coding, improving code quality, and AI-powered software testing. Mr. S. Gunasekaran (Director, Pixibit Pvt. Ltd., Singapore) handled session 2, and he highlighted advancements in AI-driven creativity, real-time content creation, and personalized user experiences. I also covered industry applications in healthcare, education, and marketing.

The course offered comprehensive insights into generative AI's potential, fostering innovation, responsible AI practices, and practical applications across various industries.



International Level Refresher Course - Unleashing Creativity: Harnessing The Generative AI For Nextgen Innovation

SRM ACM Health Conclave 2024

The SRM ACM Health Conclave 2024, themed "Transformation Journey of NextGen Computing," was held on 5th and 6th September 2024, focusing on the impact of next-generation computing technologies in healthcare. Convened by Dr. Subalalitha C.N., Dr. Suchithra M., Dr. Srinivasan R., Dr. Girirajan S., and Dr. Manoj Kumar G., the event featured expert talks, industry insights, and an idea-pitching competition.

Day 1: Expert Talks

The event began with a welcome address by Dr. Subalalitha C.N. and an overview by Dr. M. Pushpalatha, highlighting the department's vision. Key sessions included:

- Mr. Hari S., CEO of Bootstrappers' Research Council, on startup growth strategies.*
- Mr. Ananth Kumar, Associate Director at SRMIST, on innovation through government grants.*
- Mr. Senthil Nayagam, founder of Muonium AI, on generative AI and deepfake technology.*

Day 2: Idea-Pitching Competition

Students presented innovative healthcare solutions in a competition judged by experts, including:

- Dr. Madhanraj Kalyanasundaram (ICMR) on public health.*
- Mr. Anoop Menon on sustainable design.*
- Dr. Vadivelan, Professor of Pediatric Physiotherapy, on pediatric care.*
- Dr. Shantanu Patil, Director of Entrepreneurship, shared insights on orthopedic research and innovation.*

Awards and Recognition

Out of 46 teams, the winners were:

- 1.1st Prize (₹10,000): Venumadhav S. and Sumeer S. Naidu.*
- 2.2nd Prize (₹7,500): Kavin Krishnadas S. and Karthik Raja.*
- 3.3rd Prize (₹5,000): Chaudhary Shwetanshu Prakashbhai.*
- 4.4th Prize (₹3,000): Tanisha Ghosh and Ananya Kumar.*
- 5.5th Prize (₹2,000): Aarjav Godha and Harshul Bagri.*

The conclave showcased SRMIST's commitment to fostering innovation and collaboration, leaving a lasting impact on healthcare and technology.

"What ever you do, do it well. Do it so well that when people see you do it they will want to come back and see you do it again and they will want to bring others and show them how well you do what you do."

- Walt Disney



Inauguration of SRM ACM Health Conclave 2024

IEI STUDENT CHAPTER

IE(I) Students' Chapter, CTECH has successfully released the second edition of Souvenir on 24.09.2024, celebrating the remarkable achievements of the IEI Student Chapter for the academic year 2023-2024!



Release of the second edition of Souvenir

Workshop on Ethical Considerations in Generative AI Responsible Creativity

The Department of Computing Technologies in association with IE(I) Student's Chapter organized a two-day workshop titled "Ethical Considerations in Generative AI: Responsible Creativity" on 25th and 26th July 2024. The workshop featured distinguished speakers, including Dr. E. Nagarajan, R&D Head at Solvedge Technology Services Pvt. Ltd., Mr. Shakthi Shankaran, Full Stack Developer & AI Engineer, and Mr. Tanay Agarwal, Senior Software Engineer at Volante Technologies. The sessions explored the ethical implications of generative AI, focusing on fostering responsible creativity and ensuring technological advancements are aligned with societal values.



Workshop on Ethical Considerations in Generative AI

"Technology is nothing. What's important is that you have a faith in people, that they're basically good and smart, and if you give them tools, they'll do wonderful things with them."

-- Steve Jobs

Poster Competition: Innovative Ideathon

The “Innovative Ideathon” poster competition, held on 28th August 2024, brought together bright minds from the Department of Computing Technologies to showcase their creative solutions and ideas. Judged by Dr. Subash R., Dr. Srinivasan R., and Dr. Gayathri M. The competition highlighted students’ innovative thinking and problem-solving abilities, making it a memorable and insightful event for all participants.



Poster Competition: Innovative Ideathon

Engineer's Day Coding Contest

In celebration of Engineer's Day on 12th September 2024, an exciting coding contest was organized, bringing together talented participants to showcase their programming skills and problem-solving abilities. The event was judged by Dr. Eliazer M. and Dr. Bibin Christopher. Participants showcased their coding expertise, making the contest a thrilling and intellectually stimulating experience for all involved.



Engineer's Day Coding Contest

Group Discussion: Symposia

On 18th September 2024, a group discussion event titled “Symposia” was held, where participants engaged in thought-provoking debates and discussions on various topics. The event was judged by Dr. Shibu N. and Dr. Ami Femila, and provided valuable feedback and insights. The participants showcased their communication skills, critical thinking, and ability to articulate diverse perspectives, making the event a dynamic platform for intellectual exchange.



Group Discussion: Symposia

Alumni Placement Talk

On 26th September 2024, an Alumni Placement Talk was held featuring Mr. Kashif Ansari, a proud alumnus and Software Development Engineer at TCS iON. He shared his journey and experiences in the tech industry, offering valuable insights and practical advice to current students on navigating the placement process. The session provided participants with guidance on securing their first job and highlighted the importance of leveraging alumni connections in their career pursuits.



Alumni Placement Talk



GPS Map Camera

Technical Quiz: QUESTA QUIZ

On 27th September 2024, the technical quiz titled "QUESTA QUIZ" was conducted, challenging participants with a series of thought-provoking questions across various domains of technology. The event was judged by Dr. Kirubanantham P. and Dr. Prakash B., provided expert evaluations and feedback. The quiz fostered a competitive spirit among participants, encouraging them to showcase their knowledge and problem-solving skills in a fun and engaging environment.



Technical Quiz: QUESTA QUIZ



Nandivaram Guduvancheri, TN, India

Aptitude Test

An Aptitude Test was conducted on 30th September 2024, designed to assess the problem-solving and analytical skills of participants judged by Dr. M.L.Sworna Kokila and Dr. V. Bibin Christopher. The test provided students with an opportunity to demonstrate their abilities in various areas. The event aimed to prepare participants for future challenges in competitive exams and job placements while fostering a spirit of healthy competition.



Aptitude Test

GPS Map Camera
TN, India

Talk on Tips for Internship Preparation

On September 30, 2024, a talk titled “Tips for Internship Preparation” was delivered by Ms. Kundanika Pradhan, student currently interning at NOKIA. She shared valuable insights and practical advice on how to effectively prepare for internships, covering topics such as resume building, interview strategies, and skill development. The session provided participants with essential tips to enhance their internship applications and succeed in securing meaningful opportunities in their desired fields.



Talk on Tips for Internship Preparation



Talk on Careers in AI/ML

On September 30, 2024, a talk on “Careers in AI/ML” was delivered by Dr. D. Manikkannan D, Associate Professor in the Department of Computational Intelligence at SRMIST. He provided an in-depth overview of the various career paths available in artificial intelligence and machine learning, discussing the skills required, industry trends, and future prospects. The session offered valuable insights to students aspiring to build a career in this rapidly evolving field, helping them navigate their professional journeys in AI and ML.

CODESPRINT: 2-Day Workshop on Web Development and Flutter

On September 30 and October 1, 2024, “CODESPRINT,” a two-day workshop on Web Development and Flutter was organized. The workshop provided participants with hands-on experience in web development frameworks and Flutter for building cross-platform applications. Through interactive sessions and practical exercises, attendees gained essential skills and knowledge to enhance their programming expertise and develop impactful projects in the tech industry.



Workshop on Web Development and Flutter

ASI STUDENT CHAPTER- ANALYTICS SOCIETY

Graph Database for GenAI and LLM

The workshop, titled “Graph Database for GenAI and LLM,” aimed to inspire attendees by equipping them with practical skills and renewing their enthusiasm for utilizing data and AI in making informed decisions. Held from August 19 to 23, 2024, the event featured Arvind Ramachandran, Regional Vice-President of Customer Success, UK, as the keynote speaker.



Graph Database for GenAI and LLM

Faculty Immersive workshop on Transformative Teaching

Dr. Raj Ramachandran, Senior Lecturer at Cardiff Metropolitan University, visited SRMIST to confer with Prof. Revathi Venkataraman, Chairperson of the School of Computing, and Prof. Dr. M. Pushpalatha, Head of Department/CTECH, regarding potential research collaborations, faculty-student exchanges, technology transfer, and joint projects.

Faculty Immersive workshop on Transformative Teaching : Experiential learning Methods to inspire and engage Young minds was held on July 24, 2024, Participants explored innovative teaching strategies through hands-on activities and collaborative discussions.



Faculty Immersive workshop on Transformative Teaching



NEP Conclave

National Level Conclave on “The Role of Nation Builders in the National Education Policy 2020 (RNB-NEP’24)”

The Department of Computing Technologies, SRM Institute of Science and Technology (SRMIST), organized a National Level Conclave, “The Role of Nation Builders in the National Education Policy 2020 (RNB-NEP’24),” on August 30, 2024, convened by Dr. S. S. Sridhar and Dr. S. Ramamoorthy. This event brought together educators, policymakers, and industry leaders to discuss the transformative impact of NEP 2020. The inaugural session featured a welcome address by Head of the Department Dr. M. Pushpalatha, a presidential address by Dr. Revathi Venkataraman, Chairperson, School of Computing, and speeches by esteemed guests, including Dr. Gowrisha (CESS Bangalore), Dr. B. Anbuthambi (L&T EduTech), and Mr. Narayanan Ramaswamy (KPMG India). The event emphasized higher education’s role in nation-building, innovation, and skill development.

Panel Discussions

Panel 1: “Objective and Need for NEP 2020 in Higher Education”
Panelists Mr. Narayanan Ramasamy (KPMG), Dr. A.K. Bakthavatsalam (NIT Trichy), Dr. Rupesh Nasre (IIT Madras), Dr. B. Anbuthambi (L&T EduTech), and Dr. Gowrisha (CESS) discussed aligning education with global standards and fostering inclusivity, innovation, and skill development.

Panel 2: “Implementation Strategies for NEP 2020 in Higher Education”
Experts Dr. G. Janardhanan (NITTTR Chennai), Dr. Aniruddha Kanhe (NIT Pondicherry), Dr. E. Ilavarasan (PTU Pondicherry), Dr. Rajendra Kumar V Joshi (CESS), and Dr. S. S. Sridhar (SRMIST) shared practical strategies for curriculum reform, faculty development, and integrating technology to enhance learning outcomes. The conclave concluded with actionable insights and reaffirmed the collective commitment to advancing India’s educational framework under NEP 2020.



NEP Conclave

Alumni Activities

Navigating graduate path in USA: Steps to Admission and Beyond



On June 27, 2024, SRMIST Computing Technologies department in association with Alumni Affairs hosted an Alumni Talk titled "Navigating graduate path in USA: Steps to Admission and Beyond" by Ms. Lakshmi Vadhanie. Ms. Lakshmi Vadhanie is pursuing Masters in Data Science, NorthEastern University, Boston. Ms. Lakshmi Vadhanie's session provided final-year students with essential guidance for pursuing higher education in the U.S. She outlined key steps, starting with thorough research on universities, programs, and admission requirements. Vadhanie emphasized the importance of strong standardized test scores (such as GRE/GMAT), building a standout application with well-crafted statements of purpose, and securing strong letters of recommendation. She also advised students to focus on gaining relevant experience through internships or research projects. Beyond admissions, she highlighted the significance of understanding visa processes, funding options, and adjusting to U.S. academic culture.

Leveraging Content Creation for Personal Branding



On August 22, 2024, SRMIST Computing Technologies department in association with Alumni Affairs hosted an Alumni Talk by Mr Vikas P R. Mr Vikas is working as development Software Engineer in Standard Chartered Bank, Chennai. In the Alumni Talk on "Leveraging Content Creation for Personal Branding". Mr. Vikas P R offered valuable insights into creating strong professional profiles and resumes to stand out in competitive job markets. He stressed the importance of aligning one's profile with career goals, highlighting key skills, achievements, and relevant experiences. Vikas discussed the role of clear, concise formatting in resumes, ensuring that accomplishments are quantified and industry-specific keywords are included to optimize for Applicant Tracking Systems (ATS). He also emphasized tailoring resumes to specific job roles, as well as maintaining a professional online presence, particularly on platforms like LinkedIn, to complement the resume and enhance visibility to potential employers.

The Psychology of Oral Health



On September 04, 2024, SRMIST Computing Technologies department in association with Alumni Affairs hosted an Alumni Talk by Dr Revant M P. In the Alumni Talk on "The Psychology of Oral Health," Dr. Revanth M P explored the connection between mental well-being and oral health. He emphasized how psychological factors, such as stress, anxiety, and emotional health, can significantly impact oral hygiene habits and overall dental health. Dr. Revanth discussed how behaviors like teeth grinding, poor oral hygiene, and unhealthy eating patterns are often linked to psychological stress. He also highlighted the importance of understanding patient psychology in dental practice to provide more empathetic care and encourage healthier habits. The talk provided valuable insights into the mind-body connection, stressing the need for a holistic approach to oral health.

Beyond the Code: The Critical Role of Software Testing



In the Alumni Talk titled "Beyond the Code: The Critical Role of Software Testing," held on September 16th, 2024, Ms. Priyanka Roy emphasized the essential role software testing plays in ensuring the quality, reliability, and functionality of software products. She explained that testing goes beyond identifying bugs—it helps improve user experience, security, and performance. Priyanka highlighted different types of testing, such as unit, integration, and system testing, while stressing the importance of automation in modern software development. She also advised students to focus on developing strong analytical skills and an eye for detail to excel in testing roles. The talk underscored the significance of software testing as a critical phase in the development lifecycle, ensuring that products meet industry standards and user expectations. Ms. Priyanka Roy is working as Senior Software Testing Engineer in EPAM Anywhere, Hyderabad. The Event was jointly organized by the Computing Technologies department and Alumni Affairs.

Identity Security IAM Platform and the Use of AI in Cybersecurity



Department of Computing Technologies and Alumni Affairs organized an Alumni Talk on the topic “Identity Security IAM Platform and the Use of AI in Cybersecurity,” dated 16th September 2024. Mr. Rupam Banerjee, working as Software Engineer in RSA Security, Bangalore the presenter discussed the growing importance of Identity and Access Management (IAM) in safeguarding digital assets. He explained how IAM platforms are critical for managing user identities and controlling access to sensitive information across organizations. Rupam highlighted how AI is transforming cybersecurity by enhancing threat detection, automating responses, and analyzing vast amounts of data to identify security breaches in real-time. He stressed the need for integrating AI with IAM solutions to build more robust, adaptive security frameworks. The session provided valuable insights into the future of cybersecurity, emphasizing the pivotal role of AI in strengthening identity security and protecting against evolving cyber threats.

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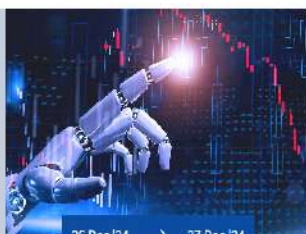

30 Jan '25 → 2 Feb '25

Conference on Cosmology,
Astrophysics, and Particle
Physics



9 Jan '25 → 10 Jan '25

National Conference on
Mathematical Techniques and
Applications (NCMTA)-2025



26 Dec '24 → 27 Dec '24

International Conference on
Managing Talent and Market
in Artificial Intelligence (AI)
Driven Digital Economy



21 Dec '24

Alumni Day '24



18 Dec '24 → 20 Dec '24

7th National Symposium on
Rotor Dynamics



4 Dec '24 → 6 Dec '24

International Conference on
Advances in Aerospace
Technologies



3 Dec '24 → 5 Dec '24

3rd International Conference
on Higher Education Institute
Challenges Solutions for
Sustainable Development Goals
2024



2 Dec '24 → 22 Dec '24

National Level Short term
Training Program on Java Full
Stack with React JS and AI



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But work decides their varied worth.



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