

DEPARTMENT OF M.TECH COMPUTER SCIENCE AND ENGINEERING
(Powered by Virtusa)(in Association with IEEE System,Man,and Cybernetics society)

PULSE 2.0

Program for Understanding, Learning, Service, Education and Excellence

Newsletter 2023 **Vol.-2, Issue - 1**



Sri

SAI RAM ENGINEERING COLLEGE

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi

Accredited by NBA and NAAC "A+" | An ISO 9001:2015 Certified and MHRD NIRF ranked institution

Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairam.edu.in





VISION

To be a pioneer in providing industry and research focused integrated curriculum in computer science and engineering and to transform young minds to sustain technically and compete globally with enriched, ethical and moral values to serve the nation and beyond.



MISSION OF THE DEPARTMENT

Department of M.Tech Computer Science and Engineering, Sri Sai Ram Engineering College is committed to Prepare the mechanical and automation engineering graduates, for a successful career in engineering and technology through effective teaching-learning.

- Accelerate the learning process by collaborating undergraduate fundamentals & postgraduate focused learning & research.
 - Tie-up with industries to facilitate advanced real time projects & internships to bridge gaps between industry & academics.
 - Impart research mindset to provoke innovative thoughts and be responsible for inventions benefitting society
 - Inculcate moral and ethical values as a part of curriculum to enable interpersonal skills.
-

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

- PEO 1:** Graduates will have solid and sound basics in Mathematics, Scientific and Engineering fundamentals necessary to understand, analyze and design any Problems in Software and / or hardware domain in the field of computer science.
- PEO 2:** Graduates will have the capability to work effectively as Computer Science Engineers, including supportive and leadership roles in multidisciplinary domains and research.
- PEO 3:** Graduates will have the potential to participate in life-long learning through the successful completion of higher degrees, continuing education, certifications and/or other professional developments.
- PEO 4:** Graduates will have the ability to apply the gained knowledge to improve the society ensuring ethical and moral values.
-

PROGRAM SPECIFIC OUTCOMES (PSOs)

Computer science and Engineering graduates will be able to:

Analyze, design, develop, test, and apply managerial ideas and mathematical foundations to the development of computational solutions, allowing them to become experts in computer software and hardware design. Develop their strong analytical skills using a myriad range of programming principles, to assess environmental and social issue ethically, and to effectively manage projects in an interdisciplinary field.

CHAIRMAN & CEO'S MESSAGE



"Making a start is fundamental to moving forward!"

As Chairman & CEO, I want to express my gratitude to the Department of M.Tech Integrated Computer Science and Engineering for launching their first departmental magazine, 'PULSEE' (Program for Understanding, Leadership, Service, Education, and Excellence). In the rapidly evolving world of technology, it's crucial to provide aspiring engineers with the latest tools, research, and entrepreneurial opportunities. Our goal is to nurture the next generation of engineers who don't just graduate but lead change. 'PULSEE' aims to effectively share valuable insights, resources, and breakthroughs in computer science and engineering. The future requires innovative solutions and a new breed of talented individuals to bring them to life. I applaud their initiative and wish them success in highlighting the diverse skills of our students.

Dr. Sai Prakash LeoMuthu

Chairman & CEO

PRINCIPAL'S MESSAGE



It brings me immense joy to witness the launch of the magazine 'PULSEE' by the Department of M.Tech Computer Science and Engineering. Education, in my eyes, is a precious gift that dispels ignorance, illuminates the path to righteousness, and empowers individuals to contribute positively to society. It instills in students the invaluable trio of 'Knowledge, Skill, and Attitude.'

I have high hopes for these talented scholars, believing that they will achieve great things in the future. I'm confident that this publication will inspire both teachers and students to continue contributing articles in the upcoming editions. My heartfelt congratulations to the convener and the committee members for the successful release of the inaugural edition, filled with content that will pique learners' interest and set the stage for future editions.

Dr. K. Porkumaran

Principal

DEAN'S MESSAGE



Education is a potent tool that helps a person handle life's challenges and get past social stigmas. It enables someone to travel the world using their knowledge. It is the main factor that gives someone the ability to overcome obstacles. It gives immense pleasure and delight that The Department of M.Tech Computer Science Engineering has made sincere efforts to provide a designated space where faculty and students can contribute their inventions and triumphs in the form of a magazine. The 'PULSEE' (Program for Understanding, Leadership, Service, Education, and Excellence) programme was developed to encourage young people to improve themselves and achieve more. I hope reading this would inspire you to work harder and achieve more. I'd like to sincerely applaud the team for successfully releasing the first edition of 'THE PULSEE' with plenty of information to entice the learners and look forward to the upcoming editions. I wish you unmatched success and happiness in everything you choose to do! Best wishes for your future endeavors.

Dr. A. Rajendra Prasad

Dean (Student Affairs)

DEAN'S MESSAGE



"Success is the achievement of specific goals and requirements"

I'm genuinely thrilled and proud of the Department of M.Tech Computer Science Engineering for their dedicated efforts in creating a platform where faculty and students can share their knowledge, skills, and insights through a magazine, catering to the technical community's curiosity. I'm delighted to announce the release of this academic year's inaugural edition of the department's technical magazine, 'PULSEE' (Program for Understanding, Learning, Service, Education, and Excellence). It's heartening to witness young minds collaborating with technology, unleashing their creativity and ideas, contributing to our nation's journey towards becoming a future superpower. My warmest wishes and hearty congratulations to the entire publication team as they embark on this new chapter, with an exciting journey ahead.

Dr. J. Raja

Dean (Academics)

DEAN'S MESSAGE



The only way to discover the limits of the possible is to go beyond them into the impossible." I take great pleasure in contributing to the wonderful magazine 'PULSEE' (Program for Understanding, Learning, Service, Education, and Excellence) as a token of my gratitude for the commendable work of the M.Tech Computer Science and Engineering Department during its successful launch. This adds a touch of creativity and diversity to the classroom, offering students engaging and enriching educational experiences. Additionally, students have the opportunity to showcase their talents and nurture their creative potential through this publication. I deeply appreciate the efforts made to bring forth innovative content. I have full confidence that the information within the magazine will address future needs and provide decision-makers with creative ideas to advance our nation. My warmest wishes go out for the successful release of the college magazine, and I wish you all a fantastic journey throughout the year.

Dr C.R. Rene Robin

Dean (Innovation)

DEAN'S MESSAGE



It is a matter of dignity to pen down the message for " PULSEE " (Program for Understanding, Learning, Service, Education and Excellence) the magazine of the department of M.Tech Computer Science and Engineering. As I see the advancements being achieved, my heart is filled with a tremendous amount of joy. The department is developing into a sturdy sapling as a result of seeds that were sown recent years ago that have already borne fruit. Making academics a pleasant trip filled with delight and discovery is our goal and that of the entire management. This magazine acts as a platform for the students to express their creative pursuits which develop originality of thought and perception in them. The magazine's articles showcase the students' fantastic creativity and imaginative flair.

I send my best wishes to the entire faculty and my beloved students, encouraging them to continue on this trip toward the summit of success.

Dr. L. Arunachalam

Dean (Placements)

HOD'S MESSAGE



I am gratified to know that the department of M.Tech Computer Science and Engineering is bringing out the Second edition of their technical magazine 'PULSEE' (Program for Understanding, Learning, Service, Education, and Excellence) for this academic year (2023-24). This is a productive technical material and subsidiary skill-developing tool for the students. This is an effective technical resource and tool for pupils to improve ancillary skills. To provide a forum for the researcher and student communities to exchange ideas and raise awareness of the significance of various subjects linked to their field of study, the magazine was launched. It brings the students and teachers of various disciplines on a common platform to share and display their ideas and creative talents. With their efforts, the Department of M.Tech Computer Science and Engineering students have formed a joint venture to publish a technical journal. I hope that this 'PULSEE' establishes itself as a flint to ignite the zeal and stir the brains of many intrusive innovations among the students and generate fervor among the academic members. Through this message, I wish them 'All the very Best' for their future endeavors and hope the students of M.Tech CSE bring more laurels to the college on the whole.

Dr. M. Nithya

Professor & Head

Department of M.Tech Computer Science and Engineering

ABOUT THE DEPARTMENT

The department of M.Tech Computer science & engineering Integrated is a 5 year program offering B.Tech & M.Tech degree with the objective to provide accelerated advanced industry focused learning. Emerged in the academic year 2023-2024, adding to Sri Sairam engineering college's list of esteemed programs, the integrated program inherits the core curriculum from CSE department, including cutting edge technologies like Big Data Analytics, Internet of Things, Design Thinking, Internet of Things, BlockChain Technology, Artificial Intelligence, Cloud computing, Machine Learning, Full stack Development and Data Science.

The department provides a platform of learning and practicing real time projects with its excellent lab facilities with latest softwares. With experienced staff from industrial background, the learning experience bridges the gap between academics and industry.

The department has futuristic plans to tie up with industries to mentor the students and equip them towards industry based learning. Further, the students will be trained by the personnel of corporate & industrial relations to ensure they are ready for industrial culture. Post the four years of academic learning, the students will be facilitated to do industry based projects for early sensing of industrial adaptation. Equal opportunity will be provided for the students interested in research with Government research organization, tie ups, enabling them to take up PhD and Postdoctoral courses.



The IEEE Systems, Man, and Cybernetics Society (IEEE SMC) is a professional society of the IEEE. It aims 'to serve the interests of its members and the community at large by promoting the theory, practice, and interdisciplinary aspects of systems science and engineering, human-machine systems, and cybernetics.'

In our department, we have a student branch of the very same society in which we empower people to learn new things.

The mission of the Systems, Man, and Cybernetics Society is to serve the interests of its members and the community at large by promoting the theory, practice, and interdisciplinary aspects of systems science and engineering, human-machine systems, and cybernetics. It is accomplished through conferences, publications, and other activities that contribute to the professional needs of its members. We host competitions, conferences, and workshops in order to benefit the people. Our department's Society's office bearers are...

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|-----------------------|------------------|
| CHAIRMAN: | SIVANESH K S |
| VICE CHAIRMAN: | VAISHNAVI S |
| TREASURER: | RUTHI SHANKARI S |
| SECRETARY: | PRAJITH B |
| WEBMASTER: | GURU SANJAY R K |

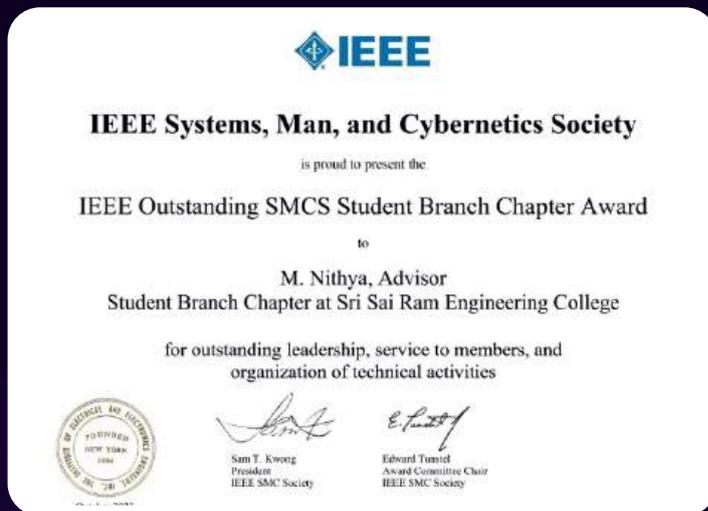
AWARDS AND LAURELS



BEST EMERGING DEPARTMENT-M.TECH(CSE)

'Top Emerging Department' was a significant milestone for the M.Tech Computer Science and Engineering (CSE) department. This remarkable accomplishment underscores the department's unwavering commitment, collective effort, and hard work that led to this esteemed honor. The M.Tech CSE department extends its sincere appreciation to the Chairman and Principal, whose profound wisdom and support were pivotal in shaping the department's journey toward excellence. Their visionary leadership served as a guiding beacon, enabling the department to attain this remarkable recognition. The dedicated faculty and staff within the management team have played indispensable roles in achieving this significant milestone. Their ongoing support, guidance, and collaboration served as the strong foundation upon which success was built. And, of course, the extraordinary dedication and hard work exhibited by the M.Tech CSE students were the driving force behind this award. Their infectious energy, innovative thinking, and enthusiasm are the lifeblood of the department. The path to becoming the 'Best Emerging Department' was challenging, characterized by relentless dedication, passion, and an unceasing pursuit of academic excellence. Nevertheless, it is precisely this journey that adds deeper meaning and significance to this achievement.

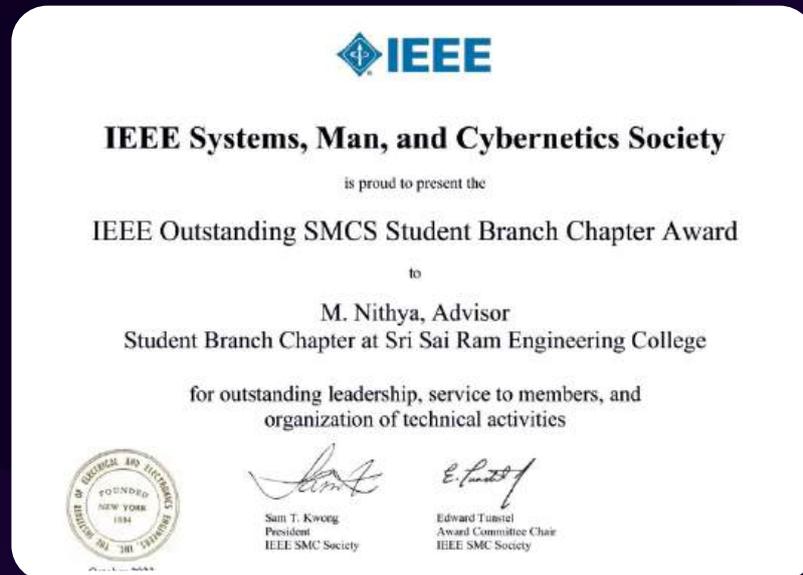
AWARDS AND LAURELS



IEEE SMC GLOBAL AWARD

The Department of M.Tech CSE at SMC Society achieved a groundbreaking milestone by becoming the first society in India to gain international recognition from the IEEE forum. The society's outstanding contributions were acknowledged when it applied for the prestigious IEEE Outstanding SMCS Student Branch Chapter award. In a testament to the society's dedication and accomplishments, our department emerged successfully among numerous participants from various countries and societies. During the application process, the society diligently submitted all relevant documents highlighting both social and technical events organized by the M.Tech CSE SMC Society. The culmination of these efforts resulted in a significant honor—the 'IEEE Outstanding SMCS Student Branch Chapter Award 2023. The recognition brought not only prestige but tangible support as well. Our department was awarded a fund of \$500, a symbolic memento, and a certificate acknowledging the hard work and impactful activities of the society. This acknowledgment from the IEEE forum not only reflects the excellence of our department but also serves as an inspiration for continued innovation and dedication to the advancement of knowledge in the field of Computer Science and Engineering. This prestigious accolade was bestowed upon our department at the IEEE SMC Conference held in Honolulu, Hawaii, USA.

AWARDS AND LAURELS



IEEE MADRAS SECTION HONORS DR. M. NITHYA

On the auspicious 14th of October, amid the vibrant celebration of IEEE Day at the College of Engineering Guindy, Anna University, The Institute of Electrical and Electronics Engineers (IEEE) Madras Section bestowed a distinguished honor upon Dr. M. Nithya. Recognizing her fervent dedication and noteworthy accomplishments, Dr. Nithya was acknowledged for her outstanding professional achievements within the IEEE community during the period of 2022-2023.

The accolade, a testament to her unwavering commitment to the field, was presented by the esteemed personalities Dr. K. Porkumaran, Chairman of IEEE Madras Section, and Dr. R. Hariprakash, Secretary of IEEE Madras Section. Dr. Nithya's contributions, marked by enthusiasm and excellence, resonated with the core values of IEEE, an organization renowned for advancing technology for the benefit of humanity. Dr. M. Nithya's recognition on this notable occasion served as an inspiration, inspiring aspiring engineers and researchers to strive for excellence within the dynamic and ever-evolving landscape of electrical and electronic engineering. The IEEE Day celebration became a memorable milestone, underscoring the significance of dedication and achievement in shaping the future of technological advancements.

AWARDS AND LAURELS

Volunteer Training Support Fund-2023

Congratulations

1	IEEE Gujarat Section	IEEE R10 Humanitarian Technology Conference 2023	500
2	IEEE Karachi Section / IEEE SIGHT	Building Sustainable Communities & Empowering Action against Climate Change Karachi	350
3	IEEE Lahore Section SIGHT	Strength and Confidence: Building Careers as Working Women	250
4	IEEE Malaysia Section	Integrating Sustainable Energy and Smart Agriculture: Empowering Communities and Promoting Environmental Sustainability	400
5	IEEE Manav Rachna College of Engineering / IEEE Delhi Section	Sustainathon-II	240
6	IEEE Pune Section SIGHT GROUP / IEEE Engineering in Medicine and Biology Pune Chapter	Training on CPR and Workshop on AI in healthcare	500
7	IEEE SIGHT Bombay Pratham Chapter	IEEE Bombay Section Community Enhancement Program	400
8	IEEE SIGHT Kerala Section	IEEE SIGHT Congress- Kerala	250
9	IEEE Sri Lanka Section	Empowering Communities Through Humanitarian Innovation: A Sustainable Approach for Change	500
10	IEEE Sri Sai Ram Engineering College, SMC28, System, Man and Cybernetics (SMC) / IEEE Madras	From Trash to Treasure: Uniting Waste Management and Mushroom Cultivation for a Sustainable Society	210



R10 HUMANITARIAN SUSTAINABLE PROJECTS & VOLUNTEER TRAINING SUPPORT FUND-2023

IEEE Sri Sai Ram Engineering College, represented by its System, Man, and Cybernetics (SMC) chapter under the IEEE Madras Section, is honored to announce that it has been chosen to receive a support fund of \$210 from the prestigious IEEE R10 Humanitarian Sustainable Project & Volunteer Training Support Fund 2023. This financial backing is a testament to the significance and promise of the chapter's innovative project titled 'From Trash to Treasure: Uniting Waste Management and Mushroom Cultivation for a Sustainable Society.'

The project's focal point lies in addressing critical issues surrounding waste management and environmental sustainability. By synergizing waste management practices with mushroom cultivation, the initiative aims to create a symbiotic relationship that not only reduces environmental impact but also generates valuable resources. This forward-thinking approach aligns with the IEEE R10 Humanitarian Sustainable Project & Volunteer Training Support Fund's mission to support projects with tangible, positive effects on communities and the environment. The recognition of this project underscores its potential to contribute significantly to building a sustainable society. The financial support provided by IEEE R10 will empower the SMC28 chapter to further develop and implement their innovative solution. As the project unfolds, it is anticipated to serve as a model for other communities, showcasing the positive outcomes that can arise from holistic, environmentally conscious initiatives.

EVENTS

DEPARTMENT OF M.TECH
COMPUTER SCIENCE AND ENGINEERING
5 YEAR INTEGRATED (Powered by VIRTUSA)

TROUDU PRESENTS
SAI INFOBLITZ - TECHFEST
INNOVATIA 1.0

29.12.2022, Thursday | BETA HALL

non -technical events
CAPTURA
SUPERHERO SHIPPUDEN
MUSIC FIESTA

technical events
CIPHER NATION
STARTUP SMACKDOWN

To Enroll

<http://shorturl.at/amAO3>

Student Coordinators
Shrivani R | Sriram G

Ms. S. Nandhini Devi
Staff Coordinator

Dr. M. Nithya
HOD

Dr. K. Porkumaran
Principal

Dr. Sai Prakash LeoMuthu
Chairman & CEO

INNOVATIA -TECHFEST

TechFest 2022- INNOVATIA 1.0 on behalf of IEEE-System Man and Cybernetics society & in association with SAI INFOBLITZ, the department of M.Tech CSE Organized the event in Beta hall on 29.12.2022 at 9.15 a.m. with grand success. The chief guest was Mr. Karthiq Ganesan, from Hcl tech, Associate General manager. Dr. M.Nithya gave the welcome address for this event. Mr. Karthiq Ganesan gave his speech on the latest technology in the IT industry and clarified the students' doubts on job placements. Also, he had shared ideas on the data science field along with their communication skills to get improved. There were totally 86 attendees in this event, out of which 25 students were from various other reputed colleges. Students' best performer awards were given to the students after filing nominations. Both technical like Cipher Nation, Startup Smackdown and non-technical events like Captura, Superhero Shippuden, Music Fiesta were conducted and the student winners were provided with certificates and cash prizes. With a vote of thanks, the event gathering ended at 4 pm.



SPEAK LIVE - TAKING YOUR SKILLS TO THE NEXT LEVEL

The department of M.Tech CSE in association with IEEE SMC conducted an event to inculcate leadership skills on 1st March 2023 through Google meet. In this event, Our Honourable Chief Guest Mrs. JAYA BABU, an esteemed leadership skills trainer and people leader from FORD IT., provided valuable insights on Skill Development.

BRIDGING GENERATION TECH TALK 1.0

The department of M.Tech CSE in association with IEEE SMC conducted an event on information security on 28th March 2023. Our respected chief guest Dr.Saravanan Chandran shared his knowledge about current threats and trends in information security.



ELEVATE - ONE STUDENT STARTUP

The department of M.Tech CSE in association with IEEE SMC conducted an event on 2nd June 2023 to inculcate the idea about startup. Mr.K.J.Naveen the Managing Director of Elitez Recruitment Services Pvt Ltd (Arient Solutions), aimed to provide Empowering Learning opportunities for students with a strong entrepreneurial vision.

IGNITING ENTREPRENEURIAL SKILLS

The department of M.Tech CSE in association with IEEE SMC conducted an event ON 23rd June 2023 at beta hall to give insights about entrepreneurship. Our chief guest Ms.Jaya Babu shared her knowledge about entrepreneurship and the real time industrial experience





ORIENTATION PROGRAMME

The Department of M.Tech CSE conducted an Orientation Programme for 2nd Year students (2022-2027) on 17/08/2023

WEBINAR PROGRAMME ON JEE FRAMEWORK

The department of M.Tech CSE in association with IEEE SMC conducted a two-day webinar program on JEE framework headed by Dr.P.Kavitha Rani and Dr. A Pushpalatha who spoke about JEE framework topics and hands-on sessions.

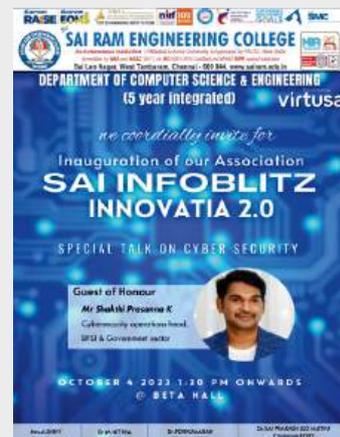


SKILLRACK AWARENESS

The department of M.Tech CSE in association with IEEE SMC conducted an event on 13th September 2023. The seniors Kamalesh Kumar, Muthu Anand Karthikeyan, and Ruthi Shankari, of the department shared their knowledge about how to use Skillrack platform proficiently to get better coding knowledge.

The association inauguration of the department of M.Tech CSE 'SAI INFLOBLITZ' on October 4, 2023, from 1:30 pm onwards at Beta Hall.

We are honored to have Sai Prasanna K, Cybersecurity Operation Head, BFSI & Govt sector, as our Esteemed Chief Guest.





WRITE TO WIN

The department of M.Tech CSE in association with IEEE SMC conducted an event on 5th October to give insights about how to submit the research paper. Our respected Chief guest Dr.B.Vijaya Ramanath, HOD of the department of Mechanical Engineering shared his knowledge about how to write the research paper effectively and its importance

ART OF WRITING

The department of M.Tech CSE and cybersecurity in association with IEEE SMC conducted an event on 20 November 2023 about how to write a thesis. Dr.B Bharathi gave her insights to all the staff about the methods to write a thesis.



INNERVE 2.0

The department of M.Tech CSE in association with IEEE SMC society and powered by Virtusa conducted a codeathon event on 2nd November 2023. The Tech Stack Codeathon event was conducted for students of batch (2021-2026) headed by the chief guests Mr.Rajkumar Sivasubramanian and Mrs.Mohana Priya S

REQUIRED TO PRODUCT - HANDS ON

The Department of M.Tech CSE in association with IEEE SMC conducted an event on 20th October 2023 to give insights about full-stack development and JEE framework. Our respected chief guest Dr.Suganya shared her knowledge about the framework and other relevant details.





INTEL UNNATI - BANGALORE

Mr. Karthikeyan A encountered an exceptional achiever whose journey shines brightly. His project, distinguished among numerous submissions for the Intel Unnati Industrial Training Programme's challenge, focused on creating a simulated FIGO Land Rover (FSM).

Guided by determination and supported by a network of mentors, his gratitude extends to Sairam Institutions for nurturing his growth and his department for its guidance. Intel Unnati, an educational transformation platform, played a crucial role, enabling him to enhance his skills across various stages, from designing intricate systems to simulating their functions.

The journey reached its pinnacle during an awards ceremony at Intel's Bengaluru office. This distinguished individual was honored with a Rs.30,000 prize, an emblematic Intel t-shirt, and a meaningful gift.

With sights set on the horizon, he's eager to leverage his newfound knowledge to make a significant impact in the tech industry. This achievement is not merely a fleeting moment but a stepping stone towards a promising future. His appreciation extends to all those who contributed to this exceptional accomplishment.



BUILD PROGRAM - IIT HYDERABAD

Mr. Sivanesh K S and Mr. Surya A, both pursuing M.Tech CSE in their third year, alongside Mr. Naren Kumar S S from the Department of CSE, secured their positions as top 75 innovators in the Build (Bold, Unique, Lead, Idea, and Development) program at IIT Hyderabad.

From a pool of over 600 applicants, these brilliant minds emerged victorious, clinching an initial funding of ₹1,00,000 to fuel the development of their groundbreaking prototype. The trio, particularly the dynamic duo of Sivanesh and Surya, showcased unparalleled teamwork and unwavering dedication during a grueling 3-day orientation boot camp at IIT Hyderabad, held on October 29, 30, and 31. This intensive session delved into the nuances of the Tech Entrepreneurship Ecosystem, Design Thinking, Intellectual Property, the 6 D's of Technology, Elevator Pitching, Business Model Canvas, Branding & Storytelling, and Pitch Deck Design. The boot camp, a crucible of learning and collaboration, also featured enlightening visits to iTIC iLab and the IITH Campus, providing real-world insights into the landscape they are set to conquer. Guided by a seasoned mentor, the duo navigated the intricate path of project development, ensuring the brilliance of their innovation shines through. The crescendo of their journey was the grand iTIC Foundation Day celebrations, where accolades, mementos, and special gifts awaited these visionary students, marking the culmination of a transformative and impactful chapter in their academic pursuits. As they stand at the precipice of tomorrow's technology, this triumphant trio embodies the spirit of innovation and the promise of a future sculpted by their ingenious contributions.



NAAN MUDHAZHVAN – TAMIL NADU

ABHINESH S, a second-year M.Tech student specializing in Computer Science and Engineering at Sri Sairam Engineering College, achieved notable success in the realm of technology and innovation. His outstanding performance commenced with securing the first prize at IBC Media's ALT HACK, hosted at Anna University from March 24 to March 31, 2023. Subsequently, he attained the top honor at the National Level Hackathon, NAAN MUDHAZHVAN – TN Skills 2023, held on May 5, 2023, at the prestigious Anna Centenary Library. ABHINESH S's remarkable creativity and innovative prowess were celebrated at both events, affirming his deep understanding of blockchain technology and its practical application to address real-world challenges. These accolades underscore his ability to think critically and provide solutions with a positive societal impact. The award ceremonies, particularly the one held at the esteemed Anna Centenary Library, served as fitting platforms to acknowledge ABHINESH S's dedication and talent. Notably, he received the award from the esteemed INNOCENT DIVYA IAS, a renowned figure in Tamil Nadu, further validating his success and solidifying his position as a noteworthy contributor to the field of technology and innovation.



IEEE RETURNING MOTHERS CONFERENCE '23

Sivanesh K S and Surya A, brilliant pupils from the esteemed M.Tech Computer Science and Engineering department, recently showcased their exceptional ingenuity by clinching the runner-up award at the esteemed Ideathon and Pitchfest hosted by IEEE RMC at The NorthCap University in Gurugram, Haryana. The journey to this accomplishment commenced with their idea earning recognition during the abstract selection round, where it outshone 200+ competing applications. Progressing to the second round hosted at The NorthCap University, Gurugram, within the backdrop of the International Returning Mothers Conference held on October 26-27, the duo presented their innovative project in a sprawling auditorium before a diverse audience of over 300 participants, featuring esteemed delegates from across the world and India. Their remarkable presentation culminated in a well-deserved 1st runner-up position, coupled with a significant cash award of \$250, in addition to receiving commendable tokens such as a memento and certificates. This achievement not only brought prestige to the M.Tech CSE department but also opened doors to extensive networking opportunities. Furthermore, their groundbreaking work is slated to be showcased on a global platform through IEEE TV, solidifying their standing in the international arena and highlighting the caliber of their contributions to the field of Computer Science and Engineering.



RISING STAR Cadet Under Officer AGILAN AMARNATH

Agilan Amarnath, Flight Cadet in NCC from the Department of M.Tech CSE, has achieved a remarkable feat by securing the second position in the prestigious ALL INDIA INTER DIRECTORATE SPORTS SHOOTING COMPETITION. This esteemed event took place in Thiruvananthapuram, Kerala, spanning from July 3rd to July 6th, 2023.

The competition unfolded in a series of seven camps, with the journey commencing at the CATC-I CUM FIRING SELECTION camp held from April 8th to April 17th, 2023, at Pachaiyappa's College in Kancheepuram. Drawing participants from over 160 colleges and 30+ schools, this initial stage culminated in the selection of 21 cadets who advanced to the subsequent camp. Among this talented group was Agilan Amarnath.

The next stage, known as the IGC CHAMPIONSHIP FIRING CAMP, unfolded from April 18th to April 27th, 2023, at Kongu Medical College in Erode. This camp brought together cadets from Coimbatore group, Trichy group, Madurai group, Pondicherry group, and Madras 'A' and 'B' groups. The rigorous competition resulted in further shortlisting, leading to a sequence of three successive camps: INTER DIRECTORATE SPORTS SHOOTING COMPETITION TRAINING CAMP 1 & TRAINING CAMP 2 (May 13th to June 2nd, 2023), INTER DIRECTORATE SPORTS SHOOTING COMPETITION LAUNCH CAMP 1 (June 12th to June 21st, 2023), and INTER DIRECTORATE SPORTS SHOOTING COMPETITION LAUNCH CAMP 2 (June 23rd to July 2nd, 2023).

Dedication, skill, and perseverance were the cornerstones of Agilan's success. Among the pool of participants, he emerged as one of the top 9 performers, thereby earning a coveted spot in the ALL INDIA INTER DIRECTORATE SPORTS SHOOTING COMPETITION. Representing the TAMIL NADU Puducherry and Andaman Nicobar directorate team, Agilan Amarnath's exceptional performance led him to secure the Runner-Up position.



SEATECH HACKATHON - MALAYSIA

Sri Charith A G, a distinguished member of the M.Tech CSE department, recently demonstrated exceptional prowess at the SEATECH Hackathon in Malaysia, garnering international acclaim. His noteworthy participation in this global event not only brought pride to our department but also showcased commendable dedication to innovation on an international stage.

The SEATECH Hackathon proved to be a transformative experience, challenging conventional thinking and offering invaluable insights. The support extended by Sri Sai Ram Engineering College, particularly through a travel grant of rupees 1 lakh, played a pivotal role in facilitating this international participation. We express our sincere gratitude for their unwavering encouragement, as their generosity significantly contributed to the success of our representative.

Beyond enabling participation in Malaysia, this opportunity served as a prominent platform to exhibit and refine skills and talents. We would also like to acknowledge our management for their noteworthy gesture of honoring participants with a Cash Award, a testament to their recognition and appreciation for the dedication and success achieved at this prestigious international event. Such support reinforces our commitment to fostering excellence and innovation within our academic community.

IEEE INDIA COUNCIL



Ms. S. Vaisali (III M.Tech CSE), Mr. Deepak (II ECE), Ms. Nivetha (II ECE), and Ms. Indhumathi (III M.Tech CSE), from Team Explorers, achieved a remarkable feat by securing the 2nd place in the IEEE India Council Hackathon held at Manipal University, Jaipur on the 21st and 22nd of October 2023. This accomplishment underscores their exceptional skills, unwavering dedication, and innovative prowess in addressing healthcare challenges.

Ms. Anurega (III IT C), Mr. Arvind Adithya (III IT C), Mr. Sri Charith A G (M.Tech CSE), and Mr. Dhanush (CSE) from Team Visual Spectacles achieved outstanding success by securing the 2nd place in the IEEE India Council Hackathon held at Manipal University, Jaipur on the 21st and 22nd of October 2023. This accomplishment reflects their exceptional skills, dedication, and innovative spirit.



INNOVATION ECOSYSTEM OVERALL CHAMPIONSHIP



Sivanesh KS, Sri Charith AG, and Ramanathan K of the Department – M.Tech CSE have won the "Overall Championship" of Sairam Institutions in the Sairam SDG-Solveathon 2.0 conducted on 20.04.2023 & 21.04.2023 for their project titled "IOT powered vehicle maintenance and tracking system," guided by Mrs. Nandhini Devi S, with a cash prize of ₹2500.

R. Rakesh, Afra Mariyam. A, Abhineya SRI.S, and Thrisala. K of the Department – M.Tech CSE (2022-2027 Batch) have won the "Overall Championship" of Sairam Institutions in the Sairam SDG-Ideathon 3.0 conducted on 01.06.2023 & 02.06.2023 for their project titled "Biotic Progression of Turbid water using Nirmali Seeds" under SDG Goal-6 with a cash prize of ₹2000.



WINNERS of SOLVEATHON under SDG Goals.



Muthu Annand SU, Guru Sanjay RK, and Kamalesh Kumar Saravanan of the Department-M.Tech CSE have won the second prize in Sairam SDG-Solveathon 2.0 under goal number 2 – "Zero Hunger" with a cash prize of ₹750 for their project titled "E-Public Distribution System" guided by Dr. M Nithya.

Swathika S, Yuvasbri AKM, and Yogitha M of the Department-M.Tech CSE have won the first prize in Sairam SDG-Solveathon 2.0 under goal number 6 – "Clean water and sanitation" with a cash prize of ₹1000 for their project titled "Designing an artificial-based robot to clean the clog and clog detection" guided by Mrs. Shiny A.



Vaishnavi S, Preethi S, and Niveditha S of the Department-M.Tech CSE have won the second prize in Sairam SDG-Solveathon 2.0 under goal number 6 – "Clean water and sanitation" with a cash prize of ₹750 for their project titled "Solar power automated monitoring agriculture system" guided by Dr. M Nithya.

WINNERS OF IDEATHON under SDG Goals.

DEVADARSHAN.R, PARTHIBAN.J, GEETHA RASHNI.K.S, SARANYA.S of the Department-M.Tech-CSE (2022-2027 Batch) have won the First prize of Sairam Institutions in the Sairam SDG-Ideathon 3.0 conducted on 01.06.2023 & 02.06.2023 for their project titled "Beg to Invest" under SDG Goal 1 with a prize of ₹1000.



R.Rakesh, Adithya.S.J, Aldous Roy, and Shreya of the Department-M.Tech-CSE (2022-2027 Batch) have won the 2nd prize of Sairam Institutions in the Sairam SDG-Ideathon 3.0 conducted on 01.06.2023 & 02.06.2023 for their project titled "Eradication of Unwanted Plants from Water Bodies" under SDG Goal 14 with a cash prize of ₹750.

BEST STUDENT AWARD:



BEST STUDENT AWARD 2023 - WORLD ENGINEERING DAY - March 6, 2023

Congratulations to Kamalesh Kumar Saravanan (2021-26) for receiving the BEST STUDENT AWARD 2023 from THE INSTITUTE OF ENGINEERS INDIA (IEI) during the WORLD ENGINEERING DAY organized by Adhiyamaan College Of Engineering. This is a remarkable achievement and a testament to his academic excellence and contributions. Well done!



BEST STUDENT AWARD 2023 - WORLD ENGINEERING DAY - March 6, 2023

Congratulations to Surya (2021-26) for receiving the BEST STUDENT AWARD 2023 from THE INSTITUTE OF ENGINEERS INDIA (IEI) during the WORLD ENGINEERING DAY organized by Adhiyamaan College Of Engineering. This is a remarkable recognition of his academic excellence and contributions. Well done!

STUDENT ACHIEVEMENT



SURYA A and SIVANESH K S from our Department won first place in the GEEK WARS event at the Chennai Institute of Technology's Department of Computer Science and Engineering "HACKERZ", collecting a monetary reward of Rs 2000/- and a felicitation certificate on March 17,2023.

SHAHANA DEVI V AND SHRIVANI R of II year M.Tech CSE(2021-2026) won the second prize in the Final draft (Paper Presentation)event with a Cash award of Rs. 700/ in the TROJANS – National level symposium organised by the Department of Information Technology, Chennai Institute of Technology on 20.03.2023.



SIVANESH K S, MOHAMMED RIZWAN M, PRASANNA KUMAR L of II year MTech CSE won the first prize in the TECH TALKS (Paper Presentation) event with a Cash award of Rs. 2000/ in the PRANAV 2K23 - National level Technical Symposium hosted by the Department of Electronics and Communication Engineering & ELECSA of Meenakshi Sundararajan Engineering College on 23.03.2023.

SURYA A and SIVANESH K S of II year MTech CSE won the first prize in the TALENT TRIALS event with a Cash award of Rs. 1500/ in the PRANAV 2K23 - National level Technical Symposium hosted by the Department of Electronics and Communication Engineering & ELECSA of Meenakshi Sundararajan Engineering College on 23.03.2023.



Mr. Surya A and Sivanesh K S of II year M.Tech CSE (2021-2026) emerged as winners in the TALENT TRIALS event, earning a cash award of 1,500 in PRANAV 2K23 - National Level Technical Symposium at Meenakshi Sundararajan Engineering College conducted on March 23, 2023.

RAKESH R from M.Tech CSE (2022-2027) won the First Prize for the Poster Presentation event conducted on account of World Environment Day by the EEE department of Sri Sairam Engineering College in association with IEEE PES SBC, IEEE PELS SBC, IEEE EDS SBC, IEEE SSCS SBC, IEEE WIE AFFINITY GROUP on 5th JUNE 2023.



STUDENT ACHIEVEMENT



B. Lakshitha (2022-2027) won the first place in the Math Olympiad at the Mathophilia event conducted by the Mathematics Club on June 8, 2023.

A. Rishi Vel, R. Rajkumar, B. Sivanesan, and M. Abishek Ghawalkar of the 1st year M.Tech CSE (2022-2027) secured the 3rd place in the International Hybrid Mode Conference ICSCCT 23 conducted at Sri Sai Ram Engineering College on June 8, 2023.



Mridhula S from M.Tech CSE (2022-2027) secured the second prize in the Surprise event at Convergence 23 conducted by Sri Sairam Engineering College on June 28, 2023.

Rakesh, Aldous Roy, and Parthiban.J of M.Tech CSE (2021-2026) secured the second place in the Ideathon Event organized by NDLI Club on July 11, 2023.



Aadithya S J and Lokesh C M of MTech CSE (2022-2027) secured the first prize in Stupid Code 2.0 conducted by Code Club on August 23, 2023, at Sri Sai Ram Engineering College.

Ruthi Shankari S, Vaisali S, and Pavithra Ramakrishnan from the M.Tech Computer Science and Engineering (CSE) (2021-2026) participated in the esteemed IEEE YESIST12 Global Level Competition. The competition took place at the Arab Academy for Science, Technology & Maritime Transport in Egypt on September 2nd and 3rd, 2023.



STUDENT ACHIEVEMENT



Rakesh, along with Ms. Afra Mariyam A and Ms. Abhinaya Sri S(2022-2027), secured first place in the Ideathon Event at the ARCANÉ Symposium Ideathon conducted by Crescent Institute of Science and Technology on September 13, 2023.

Ms. Vaishnavi S (2021-2026) won the first place in the Jarvis 2K23 Paper Presentation Event on September 23, 2023. The event was organized by the Department of Mechatronics Engineering at the Chennai Institute of Technology.



Mr. Surya A and Mr. Sivanes K S from M.Tech CSE (2021-2026), along with Vikash K V from the EIE department, secured the first place and received a cash prize of 1,500 in a paper presentation event at CHAKRAVYUHA - National Level Technical Symposium held at Gojan School of Business and Technology on September 23, 2023.

Surya and Sivanes from M.Tech CSE (2021-2026), along with Naren Kumar from CSE, seized a unique opportunity to showcase their startup before prominent investors in Salem on September 30th, 2023, through StartNet Ventures Private Limited. This experience proved invaluable, offering profound insights from tech experts, including a motivating speech from marketing strategist Mani Maran Ramalingam.



Mr. Surya A, Mr. Sivanes K S, and Mr. Naren Kumar SS, from the M.Tech CSE department (2021-2026), secured first place and were awarded a cash prize of 3,500 in the event INNOVENTURE conducted by VIT Chennai on October 6, 2023.

SURYA A, SIVANESH K S of M.Tech CSE, NAREN KUMAR S S of M.Tech CSE (2021-2026), and VIKASH K V of EIE department won the first prize with a cash award of Rs. 3000 in the TECHNO THINK, Altronix Event conducted by Valliammai Engineering College on 7.10.2023.



STUDENT ACHIEVEMENT



Ms. Vaishnavi S and Ms. Niveditha S of M.Tech CSE (2021-2026) won first place in the Intellects Hive 2K23 Paper Presentation Event conducted by Kings Engineering College Department of Artificial Intelligence and Data Science on 11th October 2023.

Vaishnavi S and Niveditha S of M.Tech CSE (2021-2026) won the first prize in the Paper Presentation Event conducted by UPAGRAHA 23, Department of Electronics and Communication Engineering, at Sri Venkateswara College of Engineering on 12th Oct 2023.



Vaishnavi S of M.Tech CSE(2021-2026) Department won the first prize in the Project Expo Event and 1st Runner up in the Paper Presentation event conducted by GARUDA 2K23 at SAVEETHA UNIVERSITY (SIMATS ENGINEERING) on 13th Oct 2023 and received an Overall Trophy.

Surya A and Sivanesh K S from the 3rd year of M.Tech CSE (2021-2026), along with Naren Kumar SS and Krishna Kumar S from the 3rd year of B.Tech CSE, have achieved a significant milestone with their project, "Smart Stick Vehicle: Unlocking Enhanced Mobility Solutions." Their innovative project secured a commendable position in the top 10 among numerous participants. Furthermore, the team showcased their inventive prowess at Rhapsody '23 - INNOVATEX in IISC Bangalore, securing an impressive 5th place and a substantial cash prize.



SIVANESH K S and MOHAMMED RIZWAN M of M.Tech CSE won the first prize with cash award of Rs 2500 in the PAPER PORTICO, CYBOURG Event conducted by Department of CSE at SRM VALLIAMMAI ENGINEERING COLLEGE on 21 Oct, 2023.

MOHAMMED RIZWAN M of M.Tech CSE won the first prize with a cash award of Rs 2500 in the BUNKER DILEMMA, CYBOURG Event conducted by the Department of CSE at SRM VALLIAMMAI ENGINEERING COLLEGE on 21 Oct 2023.



SPORTS ACHIEVEMENT



Shakthi Akshata G, of M.Tech CSE (2023-2028), has participated and secured first place with the college's chess team in the zonal level Chess tournament conducted at Tagore Engineering College on 29/07/2023.

Kanish K (2021-2026) triumphed in the Men's Badminton tournament held on August 25, 2023, at Urapakkam, clinching the 1st prize along with a 3-foot trophy.



Mr. Kanish K (2021-2026) achieved the Runner-up position with a trophy and a cash prize of Rs. 2,000 at this prestigious tournament held in Perungalathur on August 27, 2023.

Kanish K (2021-2026) continued his winning streak by securing the 1st prize with a 3-foot trophy and a cash prize of Rs. 2,000 in the Men's Doubles Badminton tournament held at Vandalur on September 9, 2023.



Pooja of the Department of M.Tech CSE (2023-2028) has been a member of the women's table tennis team and emerged as winners in the Anna University Zone IV Tournament held at New Prince Bhavani College of Engineering and Technology on 05.10.2023.

Mr. Kanish K(2021-2026) added another achievement to his list by earning the 1st runner-up trophy as a part of the Badminton Men's Team's triumph at the Anna University Zone-IV Tournament held at SRM Valliammai Engineering College, Chennai, on October 6, 2023.



SOCIAL RELEVANT ENDEAVORS



The First Commoner To Step In To The Parliament

The remarkable journey to the forefront of Indian politics was selected for Ms. Ruthi Shankari, who works in the M.Tech CSE Department. They embarked on a journey to visit the renowned Bharat Mandap, which was the precise site of an earlier G20 summit. They were overjoyed to have the opportunity to accompany delegates and world leaders who had convened for highly consequential presentations and displays. They headed to the Indian Mobile Congress the next day and then proceeded to the Lok and Rajya Sabhas of the parliament. After that, they were taken to the recently formed Parliament. Once again, the green carpet's inviting hues focused on our national bird, the peacock. The new Lok Sabha was designed with peacock aesthetics in mind in every way, right down to the colour scheme and ceiling. It was anticipated that in the future, the Rajya Sabha and Lok Sabha would hold joint sessions at this new location, which had 888 seats. In addition, they represented Sri Sairam Engineering College at the Indian Mobile Congress and promoted the ideas of SDG goals. In a brief but impactful interaction, Ruthi posed a question on the United Nations' Sustainable Development Goals (SDGs), asking, "What can we, as a student community, do, and how will the government support us?" Shri Nadda appreciated the question, highlighting the global importance of youth involvement in sustainable development. Shri Nadda shared insights into the government's plans for focusing on SDGs in the future, encouraging students like Ruthi to actively participate in these efforts. The enriching dialogue caught the attention of ANI News, with Ruthi having the honor of being interviewed and going live, amplifying the significance of student voices in national discourse. This event emphasizes our school's commitment to providing students with platforms to engage with influential leaders and contribute meaningfully to discussions on national priorities.

SOCIAL RELEVANT ENDEAVORS



Bureau of Indian Standards CLUB number - SC4487

BIS (Bureau of Indian Standards) develops and publishes Indian Standards, implements Conformity Assessment Schemes, recognizes and runs laboratories for Conformity Assessment, implements Hallmarking, works for consumer empowerment, conducts capacity-building programs on quality assurance, and represents the country in ISO & IEC.

BUREAU OF INDIAN STANDARDS organized a STANDARDS WRITING competition on 6th NOVEMBER on the topic "Potable Water Bottle." The students of the department M.Tech CSE participated in it. The first place of Rs 1000 was bagged by RH Yuvashree. Khushi Mili Mishra won the second place of Rs 750, SR Viknesh won the third place of Rs 500, and T Raveen won the fourth place of Rs 250.

BIS also organized a STANDARDS WRITING competition on 7th NOVEMBER on the topic "STICKER BINDI" exclusively for GIRLS students. Nivetha Bharathy of M.Tech CSE department won the first place of Rs 1000, and RH Yuvashree of M.Tech CSE department won the second place of Rs 750.

SOCIAL RELEVANT ENDEAVORS



Gram Panchayat Visit

In order to better understand the roles and goings-on at the local level, Ms. Ruthi Shankari from the MTECH CSE Department of Computer Science and Engineering paid a visit to the village gram panchayat. In a recent gathering of Thirumudivakkam's Grama Sabha, community members came together to address vital aspects of local governance and community development. The meeting, held on November 1, 2023, provided a platform to discuss various issues and initiatives aimed at enhancing the quality of life in the village. At the meeting, Mr. Arputha Raj, the Panchayat Secretary, shed light on the significance of Grama Sabha Meetings, which occur six times a year. Residents raise their concerns and issues, such as streetlight problems and the need for clean water, with their respective ward members. Ward members then act as intermediaries, taking these concerns to the Panchayat President for further action. In addition to the Grama Sabha Meetings, monthly local body meetings provide another platform for discussing and resolving community issues. Efforts to streamline processes were also discussed. Currently, only EB (Electricity Board) payments are processed by cheque, with all other transactions being conducted online. Ward members play a pivotal role in addressing public concerns and facilitating their resolution within the Panchayat. A highlight of the meeting was the discussion of government schemes, including the Pradhan Mantri housing scheme, individual toilet construction, the Mahatma Gandhi National Rural Employment program, and support for Women's Self Help groups. Mr. Suthahar encouraged young engineering students to actively engage in local development. Their involvement in addressing community issues and assisting in finding practical solutions was emphasized. The central objective of the Grama Sabha is to identify and address community issues, leveraging both local knowledge and government schemes to create lasting solutions. The meeting concluded on a festive note with the distribution of Diwali Sweets to honour and recognize the efforts of the Panchayat President, Vice President, Secretary, and Ward Members. In essence, Thirumudivakkam's Grama Sabha Meetings serve as an exemplary model of community engagement and participatory governance.

SOCIAL RELEVANT ENDEAVORS



Unnat Bharat Abhiyan-Environment day pledge

As we commemorate Environment Day, the members of UBA joined forces in the unwavering dedication to forging a sustainable future. Recognizing the profound responsibility to safeguard and conserve the natural world for the prosperity of future generations, on account of World Environment day, the UBA members pledged for a sustainable nation and work wholeheartedly! In making this pledge the UBA family reaffirmed their commitment to environmental sustainability. This notable event was conducted on 5 June 2023 at A block of Sri Sairam Engineering college, which was accompanied by Dr.K. Porkumaran, principal of Sri Sairam engineering college, was presented by UmaMaheswaran SK, coordinator of UBA. The students of our department Ruthi Shankari and Sivanesh also took the pledge. The event itself represented the Importance of energy usage and efficient consumption and the type of lifestyle based on the energy needs.



Aviation Camp Experience: A Glimpse into the Indian Airforce and Leadership Qualities" - Siva Ganeshan

During the camp, Siva Ganeshan not only gained knowledge but also a deeper comprehension of important leadership traits. He has greatly benefited from these traits, which include cooperation, self-assurance, teamwork, timely delivery, self-discipline, and effective communication. Siva Ganeshan is certain that these attributes will play a crucial role in his attempt to pass the SSB on his first try.

SOCIAL RELEVANT ENDEAVORS



FROM TRASH TO TREASURE : UNITING WASTE MANAGEMENT AND MUSHROOM CULTIVATION FOR A SUSTAINABLE SOCIETY

The IEEE Sri SaiRam Engineering College, SMC28, under the aegis of IEEE Madras Section, has been awarded a \$210 support fund from the prestigious IEEE R10 Humanitarian Sustainable Project & Volunteer Training Support Fund 2023 for their impactful initiative titled "From Trash to Treasure: Uniting Waste Management and Mushroom Cultivation for a Sustainable Society." Following the requisite approval from the Somangalam village panchayat, the dedicated team commenced the cleaning process utilizing potassium permanganate (KMnO_4) to ensure a pollution-free environment. The meticulous execution of fumigation with formaldehyde and KMnO_4 underscored the team's commitment to achieving optimal cleanliness and sterility. Adequate ventilation and an exhaust system were strategically employed to eliminate fumes and maintain consistent airflow. In the preparation phase for mushroom cultivation, gunny bags underwent a thorough soaking in a solution comprising carbon carbendazim and formaldehyde. Post an eighteen-hour soak, the team systematically drained and dried the straw-filled bags before packing them into plastic bags and introducing mushroom spores. These prepared bags were then suspended in a controlled environment for forty-five days at 25°C with 80% moisture content, facilitating robust mushroom development. Notably, the integration of IoT technology rendered the entire system autonomous, resulting in the successful implementation of mushroom cultivation through IoT.

SOCIAL RELEVANT ENDEAVORS



OUR DEPARTMENT - SDG ACTIVITIES

The M.Tech-CSE department at Sairam is at the forefront of Sustainable Development Goal (SDG) implementation, exemplifying a holistic commitment to social and environmental responsibility. Students from the department took a pledge committing to all 17 SDGs. As the first step, students have embraced the shift from plastic to stainless steel water bottles, aligning with SDG 6 (Clean Water and Sanitation), and have pledged to consume three liters of water daily, promoting health and well-being (SDG 3 - Good Health and Well-being). The department has cultivated an organic environment, fostering the growth of plants and herbs, contributing to SDGs 11 (Sustainable Cities and Communities), 13 (Climate Action), and 15 (Life on Land). An accessible open book rack for all students supports SDG 4 (Quality Education), providing a shared resource for knowledge dissemination. The student-led initiative "AIDING HEARTS" actively engages with various Sustainable Development Goals (SDGs), specifically targeting SDG 1 (No Poverty), SDG 2 (Zero Hunger), SDG 3 (Good Health and Well-being), SDG 4 (Quality Education), SDG 8 (Decent Work and Economic Growth), SDG 10 (Reduced Inequality), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production), and SDG 17 (Partnerships for the Goals). In this collaborative effort, students from our departments have joined forces to make a positive impact on the community by collecting donations of gently used clothes, books, and other relevant items. Each student has made financial contributions, pooling together a significant amount to support impactful, transparent, and sustainable development for those in need. Through "AIDING HEARTS," the goal is to bring about holistic and positive change, aligning with the United Nations' global agenda for a better and more sustainable future. With a dedicated pledge to all 17 SDGs, these initiatives collectively embody a transformative commitment to a sustainable and inclusive future.

FACULTY ACHIEVEMENTS



Dr. M. Nithya

Dr. M. Nithya has been honoured with the Best Faculty Award by the Institution of Engineers (IEI) in 2022. This recognition highlights her exceptional contributions to engineering education and research. Dr. Nithya's innovative teaching methods and dedication to fostering the development of future engineers have earned her this prestigious accolade. The award is a well-deserved acknowledgment of her significant impact on the field and her commitment to advancing engineering education.

Dr. M. Nithya, an accomplished Associate Professor with a background in M.E and Ph.D., has made significant contributions to the field of technology and research. Her recent publications span diverse topics, including blockchain frameworks, IoT-driven smart car assistant systems, and machine learning applications in healthcare and waste management. Presenting her work at international conferences, such as the IEEE-International Conference on Computer Communication and Informatics, has established her presence in the academic community.

Additionally, Dr. Nithya actively engages in collaborative research, with pending submissions on secure wireless ad hoc network data transmission and intrusion detection systems using swarm optimization algorithms. Beyond her research endeavors, she has demonstrated leadership and commitment to education through her role as a project in charge at Anna University and active participation in faculty development programs.

Her achievements extend to securing grants and funding for innovative projects, such as "From Trash to Treasure: Uniting Waste Management and Mushroom Cultivation for a Sustainable Society." Furthermore, Dr. Nithya has exhibited a forward-thinking approach by submitting proposals for the TNSCST faculty scheme and participating in the MSME Women's Hackathon with projects focused on AI-powered solutions for education and e-learning.

FACULTY ACHIEVEMENTS



Ms. Nandhini Devi

Ms. S. Nandhini Devi, an Assistant Professor with an M.TECH degree, has established herself as a valuable contributor in both academia and professional development. In 2021, her research on "An Educated Peer Discovery Expanding Blockchain Framework" was published in the Journal of Physics: Conference Series 1964 (4), 042091, showcasing her expertise in blockchain technology. Actively engaged in continuous learning, Ms. Nandhini Devi attended a 5-day Faculty Development Program (FDP) on "Data Science Tools," demonstrating her commitment to staying abreast of advancements in the field. Her dedication to professional development is further evidenced by her participation in a 1-day FDP on "Blooms Taxonomy," where she obtained a UHV 1 certificate.

In recognition of the importance of intellectual property, Ms. Nandhini Devi attended the National Intellectual Property Awareness Mission (NIPAM) IPR awareness/training program. Her commitment to sharing knowledge is evident in her authorship of the book "Data & Information Security," published by SAN INTERNATIONAL, Scientific Publications, in July 2023. This publication contributes to the dissemination of valuable insights in the realm of data security.

Ms. Nandhini Devi's commitment to a holistic understanding of technology is showcased through her participation in a "Full Stack Development" FDP, organised by the Department of Computer Science and Engineering, Kamaraj College of Engineering and Technology. Additionally, her involvement in an FDP on "Machine Learning & Deep Learning" at Sri Sairam Engineering College highlights her dedication to staying at the forefront of emerging technologies.

Notably, Ms. Nandhini Devi holds a patent (Patent No: 202341047294 A) for a "SYSTEM FOR CYBER SECURITY BASED ON MACHINE LEARNING," underscoring her contributions to innovative solutions in the field. Her multifaceted engagements reflect a well-rounded approach to education, research, and practical application, positioning her as a dynamic and forward-thinking professional in the academic community. Ms. S. Nandhini Devi also received the Best Faculty award from IEI-2022.

FACULTY ACHIEVEMENTS



Mrs. A. Shiny

Mrs. A. Shiny along with Dr. M. Nithya, Ms. E. Sathiyalakshmi, and Ms. S. Nandhini Devi have authored a research paper titled "Comparing Performance of Secure Wireless Ad Hoc Network Data Transmission Using Distributed Key Management." Submitted to the SRM International Conference ICRTDA, the paper is currently awaiting acceptance. The work is anticipated to shed light on the efficacy of distributed key management systems in enhancing security.

Ms. A. Shiny, Assistant Professor M.E., has been actively involved in academic development. She attended a one-day International Webinar on Sustainable Development Goals with a focus on Quality Education on February 22, 2023.

Ms. A. Shiny recently participated in a Faculty Development Training Program (FDTP) focusing on emerging technologies for next-generation networks. This program took place from July 17, 2023, to July 21, 2023.

She has submitted proposals for the MSME Women's Hackathon on diverse topics. The first proposal centers around "Stress Relief and Anxiety Therapy using AI".

The second proposal is submitted under the faculty scheme "SOLAR POWERED AUTOMATED MULTITASKING AGRI SYSTEM," highlighting an initiative toward sustainable agriculture. Ms. A. Shiny has proposed the development of "SMART STICK VEHICLE + UNLOCKING ENHANCED MOBILITY SOLUTIONS," indicating a focus on innovative solutions in transportation.

Ms. A. Shiny submitted another MSME Women's Hackathon proposal on "Automated Smart Petrol Pump based on IoT". She proposed a project titled "AI-Driven Robot for Efficient Clog Removal and Smart Sewer Maintenance System".

FACULTY ACHIEVEMENTS



Mr. M. Ahsan Shariff

Mr. M. Ahsan Shariff Assistant Professor, M.Tech., has recently presented a paper titled "Development of Recommender Systems for Better Services and Products using Data Science" at the 4th International Conference on Electronics and Sustainable Communication Systems (ICESC-2023). The conference, organised by Hindustan Institute of Technology, Coimbatore, took place from July 6th to 8th, 2023. Additionally, Mr. Shariff has participated in a Faculty Development Program (FDP) and Industrial Training on Augmented Reality and Virtual Reality. This program, themed on

"Applications and Research Opportunities," was organised by the Department of Information Technology in collaboration with Monolith Technologies and One Yes Technologies. The FDP and industrial training spanned from July 12, 2023, to July 14, 2023.



G. Yuvaraj

Mr. G. Yuvaraj, Assistant Professor M.E., has submitted two proposals for the MSME Women's Hackathon. The first proposal focuses on "Mobile Bio-Medical Single-use Plastic Waste Collector and Bio-Degradable Plastic Product Manufacturing Unit." This project proposes a solution for the collection and proper disposal of bio-medical single-use plastic waste. The second proposal submitted by Mr. Yuvaraj is titled "Mini Drone Surveillance Swarm," which suggests the development of a mini drone swarm for enhanced surveillance capabilities.

PAPER PUBLICATION/BOOK PUBLICATION

1. Dr. M. Nithya presented a paper titled "Intrusion detection system at Node level using Swarm Optimization Techniques" at the 4th International Conference on Electronics and Sustainable Communication Systems (ICESC-2023) organized by Hindustan Institute of Technology, Coimbatore, during 06-08th July 2023 (Scopus indexed).
2. Dr. M. Nithya published a paper titled "Machine learning assisted investigation on properties of TiO₂ reinforced aluminium metal matrix composites" in Materials Today: Proceedings, volume 74, pages 80-84.
3. Dr. M. Nithya also published a paper titled "Design of a safety system for drainage workers - Li-Fi technology" in AIP Conference Proceedings, volume 2523, issue 1. Additionally,
4. Dr. M. Nithya published a paper titled "Classification system on diabetes prediction using deep learning approach" in AIP Conference Proceedings, volume 2523, issue 1
5. Mr. M. Ahsan Shariff presented a paper titled "Development of Recommender Systems for Better Services and Products using Data Science" at the 4th International Conference on Electronics and Sustainable Communication Systems (ICESC-2023) organized by Hindustan Institute of Technology, Coimbatore, during 06-08th July 2023 (Scopus indexed)
6. Ms. S. Nandhini Devi authored a book titled "Data & Information Security," with ISBN 978-81-964397-4-3, published by SAN INTERNATIONAL, Scientific Publications on July 24, 2023. The book's DOI is <https://doi.org/10.59646/datainfo/014>.

INDUSTRIAL VISIT



Exploring Technological Marvels at DRDO CVRDE Exhibition

The Department of M.Tech CSE students recently had an exceptional learning experience during their visit to the DRDO CVRDE Exhibition hosted at the Avadi CVRDE facility. This insightful event provided students with a unique chance to delve into the world of cutting-edge technology. Under the expert guidance of Director Shri V Balamurugan, students had the privilege of gaining profound insights into the development of Heavy Vehicles, including the remarkable Arjun Mk III main battle tank, Bridge Layer Tanks, and Armored Recovery Vehicles. Additionally, students witnessed the fascinating process of Bearings development for the LCA (Light Combat Aircraft) Tejas. The exhibition featured captivating miniature models of tanks and aircraft, offering a hands-on understanding of these impressive machines. Accompanied by a team of esteemed scientists from DRDO, students were treated to comprehensive explanations about each exhibit's functionality and significance. Furthermore, the event shed light on potential career pathways within DRDO, both as a scientist and through junior internship opportunities. Marking a significant date on the calendar, the event took place on July 22, 2023, at the DRDO CVRDE Avadi premises. The visit not only expanded the students' horizons but also ignited their enthusiasm for technological innovation and future possibilities in the defense sector.

INDUSTRIAL VISIT



Design thinking Industrial Visit

Yogitha M, Vaishnavi S, Shrivani R, Sivanesh K S, Karthikeyan, Kamalesh Kumar Saravanan, students of the department of M.Tech CSE, visited Intellect Design Arena Ltd located at Siruseri, SIPCOT IT Park, Chennai. The company showcased their expertise by offering a unique analogy. Just as a person seeking a balanced diet must know the precise amount of nutrients and vitamins required, Intellect Design Arena takes care of the detailed structure of their customer's financial banks. They provide a 90% ready-made structure, greatly simplifying the process for individuals or organizations looking to start a bank. Their impressive clientele includes renowned banks such as Yes Bank, Bank of Baroda, and several European banks. The students were introduced to the Fintech Centre, named "8012" after its geographical coordinates. This dedicated facility showcased Intellect Design Arena's commitment to innovation and provided an overview of their operations in the financial sector. The visit began with an exploration of architect paintings that emphasized the importance of team coordination. The students learned about the fundamental principles contributing to a company's success, with inspiring examples from industry giants like Apple and Honda. The three key elements identified were customers, ideation, and implementation. Intellect Design Arena impressed the students with its integration of diverse disciplines. They incorporated elements from chemistry and nature into their workspace, such as benzene ring seaters and periodic table banking charts. This unique approach showcased the company's ability to seamlessly blend different fields of knowledge.

INDUSTRIAL VISIT



8 Queens Industrial Visit

On 18th October, the students of the 2nd year M.Tech CSE embarked on their first industrial visit to 8 QUEENS SOFTWARE TECHNOLOGIES Pvt LTD located in Mandaveli, Chennai. This startup company specializes in web and app development, engaging in various projects. The staff shared valuable insights about the company's environment and operations. The event commenced with a session led by Mrs. Gloria, an application developer. She initiated the interaction by inquiring about the students' career goals and preferred domains. Mrs. Gloria provided a clear distinction between product-based and service-based companies, elucidating their functioning. She shed light on the requirements for employees in both categories and explained the roles of various team members in the company. The entire process of project completion, from selection to client delivery, was thoroughly explained. Mrs. Gloria also offered key insights into preparing for interviews, providing guidance on essential preparations. The session concluded with an interactive question-and-answer segment where students sought clarifications on various aspects of the IT field. The subsequent session was conducted by Ms. Sowmiya, a software tester. She delved into the significance of software testing, outlining its necessity in ensuring a quality software product. Ms. Sowmiya elucidated the Software Development Life Cycle (SDLC) model and emphasized the pivotal role of a tester in the process. Clear explanations were provided regarding bugs, their identification, and the possible reasons for their presence. Ms. Sowmiya also covered functional and non-functional testing, along with different testing categories. Similar to the previous session, this one concluded with an interactive question-and-answer segment. The industrial visit served as an invaluable platform for students to gain insights into the real working environment in the IT field. They learned about the essential preparations required to secure positions in reputable companies, making the event a valuable learning experience.

INDUSTRIAL VISIT

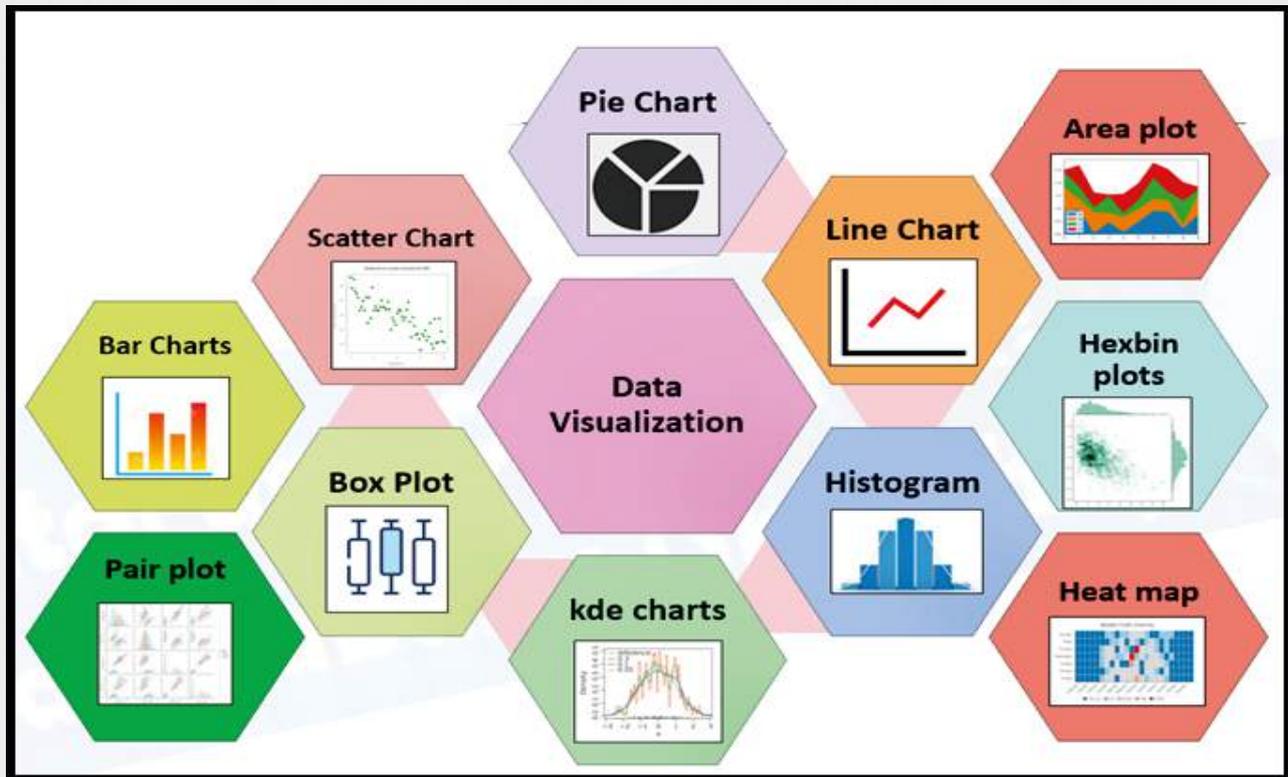


L&T MINDTREE Industrial Visit

A group of 21 individuals from our department's IEEE SMC SOCIETY embarked on a visit to L&T Mindtree, a globally renowned technology consulting and services provider. The primary objectives of the visit were to gain insights into L&T Mindtree's corporate culture, technology, and operations. The goals included understanding the workflow and organizational structure, exploring cutting-edge inventions and technology applications, learning about various initiatives and projects, understanding the company's values and corporate culture, and engaging in interactive meetings with experts and professionals. The visit commenced with an educational session providing an overview of L&T Mindtree's history, goals, and position in the technology sector. The presentation covered the company's history, global reach, and emphasis on innovative technology solutions. Subsequently, we toured several departments showcasing L&T Mindtree's advanced tools and technologies. Live demonstrations and presentations highlighted their expertise in cloud computing, cybersecurity, AI, and machine learning. This hands-on experience allowed us to grasp the real-world applications of these technologies. Throughout the visit, we interacted with staff members at all levels, gaining insight into the dynamic and collaborative work environment at L&T Mindtree. The company's commitment to innovation, collaborative atmosphere, and emphasis on honesty and moral behavior became evident. A lively Q&A session provided our group with the opportunity to pose questions to company representatives, fostering insightful conversations and networking opportunities. In conclusion, all 21 members of our group found the industrial tour to L&T Mindtree to be a fascinating and rewarding experience. It provided a comprehensive understanding of the company's operations, technological innovations, workplace culture, and core values. We extend our gratitude to the entire team at L&T Mindtree for their warm welcome and thought-provoking workshops.

ARTICLES

Data Science and Visualisation



In the expansive realm of space technology, where human exploration intersects with scientific frontiers, the integration of data science and visualization plays a pivotal role in unraveling the intricacies of our cosmic landscape. The vastness of space, with its immense data collected from telescopes, satellites, and probes, presents a challenge that surpasses human comprehension. At the heart of this surge in cosmic data lies data science—a critical tool for deciphering the collected information. Leveraging algorithms and statistical methods, data scientists navigate through extensive datasets, unveiling patterns and insights crucial for managing colossal volumes of data from instruments like the Hubble Space Telescope and Mars rovers. Visualization steps in as the next key component, providing accessible depictions of complex space phenomena for both scientists and

the general public. Stunning images, interactive models, and informative charts, born from data visualization, simplify the complexities of space, facilitating universal understanding. Applications in space technology, such as Mars rover exploration and galaxy mapping with telescopes like Hubble, exemplify the synergy of data science and visualization. This collaboration decodes distant planet geology and reveals the intricate structures of galaxies. Together, data science and visualization form a dynamic duo propelling our journey into space, transforming the unfathomable cosmos into understandable and visually captivating insights. Whether one is a scientist, astronaut, or space enthusiast, these tools serve as guides, simplifying the universe's complexities and inviting marvel at the wonders of space in more accessible terms.

ARTICLES

Tech in Head-Neuralink (Neural Networking)

Neuralink, spearheaded by Elon Musk, is at the forefront of neurotechnology with its groundbreaking project, the PRIME (Precise Robotically Implanted Brain-Computer Interface). This venture represents a fusion of artificial intelligence and neuroscience, embarking on an investigational medical device trial to evaluate the safety of the implant and surgical robot, as well as assess the functionality of the Brain Control interface. The PRIME system is a fully-implantable, wireless brain-computer interface designed to empower individuals with paralysis. It enables direct communication between the human brain and computers, allowing users to manipulate devices through their thoughts. This interface is particularly transformative for paraplegics, assisting in tasks like operating phones or interacting with computers. Neuralink's overarching goal is to enhance communication for those unable to speak or write, providing control over virtual interfaces through cognitive processes. Having secured approval for its first in-human clinical trial in the United States, Neuralink is now poised to recruit patients. The estimated cost for the entire Neuralink system ranges from \$3,000 to \$5,000. This milestone represents a significant stride towards realizing the potential of brain-computer interfaces, introducing novel avenues for communication and control for individuals facing mobility challenges.



Neuralink's innovations exemplify the integration of neurotechnology and artificial intelligence, carrying transformative implications for human-computer interaction and healthcare. As the company progresses, it opens new frontiers in exploring the capabilities of the human brain, promising a future where technology seamlessly interfaces with the complexities of the mind.

Quantum Computing

Quantum computing, situated at the cutting edge of computer science, physics, and mathematics, harnesses the principles of quantum mechanics to address intricate problems beyond the reach of classical computers. While not intended to replace existing computing systems, quantum computers, utilizing the power of quantum physics, excel in solving complex statistical challenges that classical counterparts find elusive. In classical computing, information is stored in bits, representing either a zero or a one. Quantum computing, however, operates with quantum bits, or qubits, capable of existing in a superposition—representing any combination of zero and one simultaneously. This unique characteristic, combined with features like superposition and entanglement, empowers quantum computers to explore myriad paths simultaneously, providing a more efficient approach to solving complex problems such as chemical simulations.

ARTICLES

CRYPTOCURRENCY



Cryptocurrency, propelled by revolutionary blockchain technology, is a transformative force not only in finance but across diverse industries. Blockchain, renowned for its secure and transparent transaction framework, establishes an impervious system resistant to control or censorship. Its foundational principle of transparency fosters trust, and its robust security features create formidable barriers against data tampering. At the core of blockchain's functionality are consensus algorithms that validate transactions, ensuring a decentralized and trustworthy ledger. Smart contracts, another facet of blockchain, automate processes, streamlining operations, and boosting efficiency. Beyond its primary use in cryptocurrencies like Bitcoin, blockchain's versatility extends into various domains such as supply chain management, identity verification, healthcare, cross-border payments, asset tokenization, smart contracts, decentralized applications (DApps), non-fungible tokens (NFTs), energy trading, and intellectual property management. Bitcoin, a standout example, has transcended global financial landscapes, surpassing the value of traditional currencies. Blockchain's components, including nodes, ledgers, assets, and algorithms, collectively contribute to its resilience and functionality. The technology's adaptability positions it as a promising solution across industries, offering a transparent and secure means to record, verify, and revolutionize data management processes. As the blockchain ecosystem evolves, its impact resonates beyond cryptocurrencies, shaping the future of decentralized and transparent systems across numerous sectors. This continual evolution underscores the potential for blockchain to redefine how industries operate, emphasizing security, transparency, and efficiency in a rapidly changing digital landscape.

STUDENT FEEDBACK



Jerry Sylvester P(2021-2026)

The M.Tech CSE (5 Year Integrated) program at the department fosters collaboration among faculty and students, enabling exploration of emerging technologies. Gaining extensive knowledge across diverse fields has proven beneficial in this dynamic environment. Participation in various college and external events has enhanced my mental and technical abilities, shifting my perspective on challenges and improving clarity, discipline, and technical skills. Grateful for these enriching opportunities.

Rakesh R(2022-2027)

Our Dept faculty's expertise Teaching, friendly guidance, innovative curriculum, and supportive environment foster a truly enriching learning experience to me. Encouraging extra curricular activities like Organising, Volunteering, Participating in various events boosts to Achieve further. I was provided with a lot of opportunities to showcase my skills in many platforms. With the help of my supportive seniors and good guidance towards our career I have gained a lot of knowledge about the industry



Khushi Mili Mishra(2022-2027)

Our Mtech CSE department's integrated approach has proven to be immensely beneficial as it gives us a well rounded learning experience. I am particularly grateful for the numerous opportunities that our department has provided and the encouragement we get from our faculty to explore innovative ideas and engage in different projects. It has helped me broaden my perspective and enhanced my skill set significantly.



HASUMATHI LAKSHMI (2022-2027)

The department of M.Tech CSE has been instrumental in providing various opportunities to students to showcase their specific skill sets and knowledge. Apart from academics the department is focusing more on developing industrial based knowledge and skill set required to shine in the present day competitive world. I have gained so much experience from being a part of our department and it has helped me to learn to learn new technologies.



A.G.Sri charith(2021-2026):

Gratitude to Sri Sairam Engineering College, especially the M.Tech CSE department, for an exceptional academic environment that enriched my understanding of computer science. Thanks for the generous travel grant of rupees 1 lakh, enabling Team Visual Spectacles' participation in the SEATECH Hackathon in Malaysia. The experience broadened our horizons and showcased our skills globally. Appreciate the college's commitment to excellence, innovation, and providing valuable opportunities.



STUDENT FEEDBACK



Dr. R. Kulandai samy Father of Aldous roy(2022-2027)

As Aldous Roy's parent, Dr. R. Kulandai Samy, I take pride in choosing Sairam Engineering College for his M.Tech CSE journey. The department's well-designed system caters comprehensively to the needs of computer students. The faculty's periodic updates and focused approach are commendable. Wishing continued growth and success, expanding paths and possibilities.

Mrs. S. Niranjana devi Mother of Vaisali (2021-2026)

Grateful to Sri Sairam Engineering College, especially M.Tech CSE, for providing an excellent academic environment for my daughter, Vaisali. The faculty's dedication, practical approach, and industry focus have enriched her understanding of computer science. I appreciate the college's support for innovation and diverse activities, fostering her growth.



Mrs. M. Gomathi Mother of Pavithra (2021-2026)

I'm grateful to Sri Sairam Engineering College for surpassing our expectations in providing an excellent academic environment for my daughter Pavithra's M.Tech CSE program. The faculty's expertise and emphasis on research, along with valuable networking and career counseling initiatives, have enhanced her skills and employability. I'm confident that the knowledge gained here will be a strong foundation for her future endeavors.



Mr. R. Bhaskar Father of Lakshitha (2022-2027)

As a parent of B. Lakshitha in M.Tech CSE 2nd year, I express sincere thanks to Sri Sai Ram Engineering College and the M.Tech department for nurturing her skills in CSE. The department's focus on both academics and extracurricular activities has provided valuable opportunities for learning and growth. The events and insights shared have contributed to building a strong foundation for her future career.



Mrs. S. Jayanthi Mother of Aadithya SJ (2022-2027)

Grateful for my son's diverse exploration and the faculty's guidance at Sairam Engineering College. Their dedication to research-based learning ensures valuable hands-on experience, maintaining strong academic performance. The supportive environment, coupled with the Head of the Department's encouragement for practical knowledge through the incubation cell, is highly appreciated. Thanks for shaping his educational journey positively.



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HOD



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Assistant Professor



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III Year



GURU SANJAY R K
III Year



VAISALI S
III Year



JERRYSYLVESTER
III Year



PRAJITH B
III Year



SIVANESH KS
III Year



SRI DURGADEVI S
III Year



ALDOUS ROY
II Year



HASUMATHI LAKSHMI G
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KHUSHI MILI MISHRA
II Year



KOUSHIK BABU M
II Year



SABARI RL
II Year



Sri

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