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Editors Message

There is a saying, 'When we celebrate festivals, we celebrate the spirit of humanity — one heart, one world, one joy.' As we step into this vibrant festive season, I extend my warmest greetings and heartfelt wishes for Deepavali — the Festival of Lights — to all our readers, contributors, and colleagues. May these celebrations bring joy, peace, and renewed energy to you and your loved ones. This time of year reminds us not only to celebrate traditions and togetherness but also to reflect with gratitude on the milestones we have achieved collectively. It gives me immense pride to congratulate all our researchers, scholars, and innovators for their remarkable achievements and contributions throughout the year. Your dedication, curiosity, and pursuit of excellence continue to inspire and elevate our community. Each study published, each discovery made, and each collaboration forged adds another bright spark to our shared pursuit of knowledge. This month also marks the inauguration of branch fests across almost all Departments — a true celebration of both festive cheer and academic brilliance.

As we embrace this spirit of joy and innovation, let us continue to nurture learning, creativity, and collaboration. Together, let us move forward stronger, inspired, and ready to welcome days filled with purpose and possibility.

Focus on FOCUS and be a part of it .

| Dr.Vidyalakshmi K

Publications and Conferences

- **Dr. C. K Raju**, Prof., and Head, Dept. of AI&ML has presented the research paper titled "PID – 110: Role of Quantum Key Distribution System against Various Threats in Digital Era: A Review", at International Conference on Digital Technology and Engineering (ICDTE – 2025), organized by RV Institute of Technology and Management, Bengaluru held on 16th & 17th October 2025.
- **Dr. Sunil K**, Prof., and Head, Dept. of Chemistry and team published an article entitled "Synthesis, structural elucidation, Hirshfeld surface, DFT, pharmacophore, and in silico studies of a piperonal

derivative: A study based on experimental and theoretical methods" in the journal "Journal of Molecular Structure" Published by Elsevier (IF 4.7, Q1- Indexed in Scopus and WOS) in October 2025.

- **Dr. Jayaprakash H V**, Asso.Prof., Dept. of Chemistry, presented a paper entitled "Enhanced corrosion resistance and multifunctional applications of Mg doped ZnO Nanoparticles", Corrosion properties of Al-Cu-Mg-Titanium dioxide particulate reinforced metal matrix composite" and "Novel syncamore wood biomass mediated AC@NiO is an efficient nanocatalyst for biodiesel generation from

waste coconut scum oil: RSM optimization and kinetic study” at three-day Corcon-2025, International Conference on World Corcon-2025 held at Jaipur organized by AMPP Chapter. NACE India section International. India on 6th to 8th October, 2025

- **Mr. Guruprasad T N**, Asst. Prof., Dept. of Civil, published paper titled “A comparative analysis of the performance and characteristics of single part and two part geopolymer concrete” in the scopus indexed Journal of Propulsion Technology, ISSN: 1001-4055, Vol. 46No. 4(2025) in October 2025.
- **Dr. Babitha M N**, Asso. Prof., Dept. of CSE has presented a paper entitled “Convergence of cloud computing and distributed systems: Evolution, Challenges and Future Directions” in ICAIN-2025 organized by BITS Pilani in association with IIIT, Allahabad on 6th -7th October 2025.
- **Dr. Vidyalakshmi K**, Asso. Prof., Dept. of CSE(DS) and her research scholar Asharani R, published a paper titled “Robust storage of Executables using Image based encoding Techniques”, in Journal of Information Systems Engineering and Management, Vol 10, pp. 1231-1246 in October 2025. (scopus)
- **Mr. Nandan N**, Asst. Prof., Dept. of EEE has published a paper titled “Controls and Measurement of Electrical Parameters of Electric Motors Using IoT and SCADA” in Int. Journal IJS-REM on vol 09, Issue 10, in October 2025.
- **Dr. Keshavamurthy T G**, Asso. Prof., Dept. of ECE., presented a paper titled “Improving lung CT clarity using Frequency-Domain Artifact Reduction” in International Conference on Emerging Technologies in Electronics and green energy ICTEG 2025 organized by JSS Science and Technology University on 10th & 11th October 2025.
- **Dr. Keshavamurthy T G**, Asso. Prof., Dept. of ECE., Sriraksha Devaraj, Asst. Prof., Dept. of ECE., presented a paper titled “Next Generation Eye: Redefining Visual Perception and Enhancing Independence for the Brain community Vision and Independence for the blind” in International Conference on Emerging Technologies in Electronics and green energy ICTEG 2025 organized by JSS Science and Technology University on 10th & 11th October 2025.
- **Dr. M V Chidananda Murthy**, Asso. Prof., Dept. of ECE., presented a paper titled “Dual metric Emotion Recognition: Optimizing Euclidean and Chi-square Distances with EMD for Local Binary Pattern Histogram in Color and Gray-scale Images” in the International Conference on software, Systems and Information Technology

(SSITCON-2025) organized by the department of CSE, SSIT, Tumkur on 17th & 18th October 2025.

- **Dr. Hareesh KN**, Asso. Prof., Dept. of ETE published a paper in ITM Web conference on the title “Multimodal Biometric Authentication using convolutional Neural Network, Swin Transformer and Multi Head Attention with Global Max pooling” held on 8th October 2025.
- **Dr. Hemanth Kumar T R**, Prof. & Head, Dept. of ME., presented paper titled “Corrosion Properties of Al-Cu-Mg-Titanium Particulate Reinforced Metal Matrix Composite” in the CORCON-2025 International conference of Corrosion prevention organized by AMPP, Jaipur held during 6th to 8th, October 2025
- **Mrs. Anuradha G. R.**, Asst. Prof., Dept. of MCA, has successfully published a paper titled “A Review on Human Facial Emotion Recognition using Machine Learning” in the Journal of Interdisciplinary Research, SSAHE University, Volume 6, Issue 1 (ISSN: 2582-9890) in October 2025.

Student Publications

- **Suresh Babu**, M.Tech CAD student has published paper titled “A comparative analysis of the performance and characteristics of single part and two part geopolymer concrete” in the scopus indexed Journal of Propulsion Technology, ISSN: 1001-4055, Vol. 46No. 4(2025) under the guidance of Mr. Guruprasad TN, Asst. Prof. Civil Dept. in October 2025.
- **Syed Rayan**, 7th sem student, Dept. of ME., presented paper titled “Corrosion Properties of Al-Cu-Mg-Titanium Particulate Reinforced Metal Matrix Composite” in the CORCON-2025 International conference of Corrosion prevention organized by AMPP, Jaipur held during 6th to 8th, October 2025.

Faculty Achievements

- **Dr. Savitha C**, Asso., Prof., Dept. of AI&ML served as Session Chair for the “International Conference on Software, Systems and Information Technology (SSITCON-2025)” organized by the Department of Computer Science Engineering (Cyber Security) in association with the Department of Computer Science & Engineering, Sri Siddhartha Institute of Technology, Tumakuru held from 16th to 18th October 2025.
- **Mr. Raghavendra D**, Asst. Prof., Dept. of BME, successfully completed the NPTEL course on “System design through verilog” with consolidated score of 77% and got NPTEL online certification.

- **Dr. Jayaprakash H V**, Asso.Prof., Dept. of Chemistry, chaired a Technical Session and, delivered a Technical talk on “Electrochemical Studies of ZA-27/Red Mud Metal Matrix Composites in Sodium Chloride and Sodium Hydroxide Medium-A Corrosion Characterization”. at International Conference on World Corcon-2025 held at Jaipur, 6th to 8th October, 2025, organized by AMPP Chapter. NACE India section International. India.
- **Dr. Jayaprakash H V**, Asso.Prof., Dept. of Chemistry, delivered a Technical talk on “Role of NCC in Nation building” :- UG Orientation Program & Foundation course 2025-26, Organized by Dental Education Technology Committee, at Sri Siddhartha Dental College and Hospital, Tumkur on 11th October 2025 and also at UG Orientation Program & Foundation course 2025-26, Organized by SSMC-Para medical science Committee, Agalakote, Tumkuron 28th October 2025.
- **Dr. Pradeep A R**, Asso.Prof., Dept. of Civil, reviewed Book chapter in BP international WOS indexed journal no -Ms_BPR_6603.8 in October 2025.
- **Dr. Akshay J**, Asst. Prof., Dept. of Civil, reviewed a Technical paper titled “Parthenium Carbon as a Bio-Adsorbent for the Removal of Indigo Carmine Vat Blue Dye From Synthetic Wastewater” at Sadhana Journal published by Indian Academy of Sciences - Springer Nature (Indexed by Scopus) in October 2025.
- **Dr. Sujatha S R**, Professor, Dept. of CSE has published a book chapter entitled “Blockchain-Driven Access Control and Data Protection Framework for Industrial IoT systems” in Journal of Sciences 2025, Vol.24, No.2, 117-136, ISSN 0975-3303/doi.org/10.12723/mjs 73.7 in October 2025.
- **Mrs. Bhoomika P**, Asst. Prof., has delivered a Lecture on Basics of Computers for First year MBBS students at SSMC, Tumkur, on 10th October 2025
- **Dr. Renukalatha S**, Head, Dept of CSE(-CY) and **Dr. Srinidhi G A**, Asso. Prof., , Dept of CSE(CY) was a Session Chair for SSITCON 2025 @SSIT, Tumakuru, in October 2025.
- **Dr. Srinidhi G A**, Asso. Prof., , Dept of CSE(-CY) as invited as a resource person to deliver a talk on “Cyber Security for Critical Infrastructure Interventions in Smartcity Implementation” at a AICTE VAANI FDP organised by Dept of ISE, BMSIT, Bengaluru on 10th October 2025.
- **Dr. Srinidhi G A**, Asso. Prof., Dept of CSE(CY) delivered an online session for the faculty of Delhi Technical University (DTU) on the topic “Quantum Key Distribution Protocols” on 16th October, 2025
- **Dr Srinidhi G A**, Associate Professor, Dept of CSE(CY) was a Session Chair for SSITCON 2025 @SSIT, Tumakuru
- **Dr. Keshavamurthy T G**, Asso. Prof., Dept. of ECE., has got best paper award for the paper titled “Improving lung CT clarity using Frequency-Domain Artifact Reduction” in international Conference on Emerging Technologies in Electronics and green energy ICTEG 2025, and also was a reviewer in the conference organized by JSS Science and Technology University on 10th & 11th October 2025.
- **Dr. Ghouse Ahamed Z**, Asst. Prof., Dept. of ECE was a reviewer at 2025 IEEE International Conference on Distributed Computing, VL-SI, Electrical Circuits and Robotics organized by IEEE Mangalore Subsection at P A College of Engineering Managalore on 17th & 18th October 2025.
- **Dr. N Pradeep**, Head, Dept. of EEE has been appointed as Member, BoE at PESCE, Mandya in October 2025
- **Dr. Jagadisha K R, Dr. D Ravi Prasad, Dr. B S Yogananda, Dr. Praveen Kumar C and Dr. Nasreen Taj M**, Asso.Profs., Dept. of EEE received Seed Money from SSAHE Tumakuru, in October 2025
- **Dr. Praveen Kumar C**, Asso.Prof., Dept. of EEE was the resource person on “Entrepreneurship and Innovation” organized by the Dept. of MBA SSIT on 8th October 2025
- **Dr. Praveen Kumar C**, Asso.Prof., Dept. of EEE was the Jury member for the Make For Tumakuru Event organized by Titan Company and PARAMM Cyber Arc SSIT on 11th October 2025
- **Dr. Praveen Kumar C**, Asso.Prof., Dept. of EEE was the NPTEL Exam Observer at CIT Gubbi on 25th October 2025
- **Dr. Yogananda B S**, Asso.Prof., Dept. of EEE was the Session Chair at IEEE-IC2IT 2025 organized by Mysuru Royal Institute of Technology, Mandya during 25th October 2025. (ONLINE).
- **Dr. Annapurna H S** Prof and Head of the Dept of ISE and **Dr. Rashmi H C** Asso.Prof., Dept of ISE were the Session Chairs for International Conference on Software, Systems and Information Technology (SSITCON) organized by Dept. of CSE(Cyber Sec), SSIT on 17th and 18th October 2025.
- **Dr. M C Roopa**, Asso., Prof., and Head, Dept. of MBA, & **Mrs. Budagiri Vidyavathi**, Asst. Prof., Dept of MBA., conducted a one-week FDP Programme through online organized by VVCE, Mysuru, as resource persons on the topic “Digital Transformation in Higher Education” for Engineering & Management Faculty Members from 13th to 17th October 2025.

Student Achievements

- **Mr. Aditya Bharadwaj Panangipalli**, a 2025 batch, BME student, successfully cleared the NIMHANS-All India Entrance Examination-2025 and secured admission to the PG Diploma program in October 2025.
- **Prem Ranjith Varma K**, Student of 5th Sem, Dept of CSE(CY) has successfully completed Bootcamp on Machine Learning for Cyber Security conducted by CDAC Hyderabad as part of FutureSkills PRIME Project, held during 6th Oct to 10th Oct 2025
- **Ullas T S**, Student of 5th Sem, Dept of CSE(CY) successfully completed the EC-Council's Certified Secure Computer User (CSCU) program, focused on practical cybersecurity awareness and best practices for secure computer and internet usage on 8th October 2025.
- **Thushar H G**, 3rd Sem, Dept. of ME., represented as organizing committee role in the CORCON-2025 International conference of Corrosion prevention organized by AMPP, Jaipur held during 6th o 8th, October 2025.

Faculty Participation

- **Dr Pradeep A R**, Asso.Prof., Dept. of Civil attended webinar on METRO CONSTRUCTION organized by Construction Management Training Institute on 12th October 2025.
- **Dr. Keshavamurthy T G**, Asso. Prof., Dept. of ECE., Sriraksha Devaraj, Asst. Prof., Dept. of ECE., has participated Dept. of ECE., completed three days online FDP on "Artificial Intelligence & Applications", organized by Bharati Vidyapeeth Institute of Technology, from 8th to 10th September 2025.
- **Dr. Nasreen Taj M**, Asso.Prof., Dept. of EEE has participated and completed Workshop under AICTE-VAANI on Green Mobility and Smart Infrastructure for Future Cities in Kannada Language at BMS Institute of Technology and Mgmt., Bengaluru from 10th to 11th October 2025.
- **Mrs. Sowmya K R** and **Mrs. Likitha U N**, Asst. Prof., Dept. of EEE has completed ATAL FDP on Advanced Power Converter for Next-Generation Electric and Hydrogen fuel Cell Vehicles at NIT Manipur from 13th to 18th October 2025. (ONLINE)
- **Mrs. Nanda K V** and **Mrs. Ashwini K J**, Asst. Profs., Dept. of MCA has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Advanced Computing Paradigms: Bridging AI, HPC, and Data-Driven Technologies at Kalpataru Institute of Technology from 13th to 18th October 2025.

- **Mrs. Nandini G R** Asst.Prof at Dept of ISE participated (online) in ATAL FDP on "Advanced Computing Paradigms: Bridging AI, HPC and Data-Driven Technologies" at Kalpataru Institute of Technology, Tiptur, from 13th to 18th October 2025.
- **Dr. Swetha G R, Mr.Suresh S Patil, Mr.Manu C, & Mr.Chandrakanth S**, Asst. Profs., Dept of MBA., have attended a 5-Day online FDP Programme organized by VVCE, Mysore on the topic "Digital Transformation in Higher Education" from 13th to 17th October 2025.

Student Participation

- **Ullas T S**, Student of 5th Sem, Dept of CSE(CY) has Successfully Participated in a workshop on Machine Learning applications and methodologies and Successfully Participated in a masterclass conducted by Scaler Masterclass, aimed at building career readiness and upskilling in DevOps, cloud computing, and cybersecurity on 7th October 2025 and Participated in a technical masterclass focused on containerization technologies and Fundamentals of Docker & Kubernetes conducted by Scaler Masterclass, on 14th October 2025
- **Ms. Manasa G B** student of Dept ISE participated in the workshop on "Antenna Technologies for Space Applications" organized by IEEE IISc MTT/AP-S Student Branch Chapter at IISc, Bengaluru, on 14th October 2025.
- Third semester student, Dept. of MBA participated in the HR Conclave - VIRTUAL DEBATE "New HR Challenges in the era of AI" organized by HR DASARA 2025 powered by SRF Detectives & Securities in association with Maharani's Women's Commerce & Management College, Mysore, held on 23rd October 2025

Placement News

During the month of October 2025, several placement and internship drives were conducted successfully for the 2026 batch. A total of 133 students secured placements and internships through various campus recruitment activities. Out of these, 7 students were placed in MRI Software, while 126 students received internship opportunities across multiple organizations. The key internship recruiters included TECHNOLOGICS GLOBAL PVT LTD (4 students), Nash Industries (42), Q-Spiders (34), Cloudninecare (2), Tap Academy (13), Pentagon Space (13), Global Quest Technologies (5), and Dhee Coding Lab (20).

In addition, companies such as DeltaX, Sobha Limited, and Ocean Link Sea Services initiated their recruitment processes, with online assessments conducted on 17th and 18th October 2025 respectively, and results awaited. Furthermore, an IBM Skill Build Seminar and MOU were successfully organized on 30th October 2025, enhancing student exposure to industry-oriented learning. Overall, the department witnessed significant progress in student engagement and placement activities during October 2025, marking a positive stride toward achieving the placement goals for the academic year



MAKEATHON-25 The Department of Cyber Security, Sri Siddhartha Institute of Technology, Tumakuru, in association with Titan Company and PARAMM Cyber ARC, organized MAKEATHON-25, a two-day State Level Hackathon under the theme “Build for Your City – Solve What Matters.” From 10th to 11th October 2025.

Department Activities



Department of Civil Engineering Organised the ‘Inauguration of Branch Association - NIRMAAN-2025’ and Organised a Technical Talk on ‘Challenges and Opportunities for Civil Engineers in Infrastructure Projects’ and the speaker was Er. Ravindranath B V from Bengaluru and the event was coordinated by Dr. Akshay J, Asst. Prof., Dept. of Civil on 17th October 2025



Department of Civil Engineering organized a seminar on “Civil CAD related Courses” from Edu CADD center, Tumakuru for Civil Engineering students on 15th October 2025 and the Speakers were

- i. Mr. Shivakumar, CAD Engineer, Edu CADD center, Tumakuru.
- ii. Ms. Jyothi, Councilor, Edu CADD center, Tumakuru.



The International Conference on Software, Systems, and Information Technology (SSITCON-2025) was successfully organized by the Department of Computer Science and Engineering in association with the Computer Science and Engineering (Cyber Security) at Sri Siddhartha Institute of Technology, Tumakuru on 17th to 18th October 2025, Dr. Raviram V, Dr. Sujatha S.R, Dr. Roopa N.K, Dr, Babitha M N, Dr. Nirmala G and Dr. Gopala T, acted as session chairs. Dr. Raviram V, Professor and Head acted as Publication Chair, Dr. Babitha M N and Dr.Nirmala G were the Conference Coordinators.



Department of CSE(Data Science) organized inauguration of department association AVINYA-2025 for all the students of CSE(DS) Students and released Department magazine “PARADOX” on 15th Sept 2025 (Co-ordinator: Mrs. Shamsiya Parveen , Mr. Sunil Kumar B K).

- The Department of AIML conducted a technical talk on “Supercomputing (HPC) – AI Landscape for Academia, Research, and IT” and the resource person was Mr. Renukprasada T. G., M.Tech., Managing Director, Aikshetra Tech Solutions Pvt. Ltd., on 16th October 2025.
- The Department of AIML organized a Departmental fest, “Machine Minds,” featuring various technical and cultural events conducted for the students by the Department, on 16th October 2025.
- Department of ISE organised a five-days Value Added Course on Essentials of Generative AI and LLM coordinated by Mrs. Nandini G R Asst.Prof., at Dept of ISE and Mrs. Ranjini H Asst.Prof., at Dept of ISE from 15th to 19th October 2025



The activities of VIDYUTH and ENERGY CLUB for the AY 2025-26 was inaugurated on 15th Oct. 2025 by Er. Viraj Shetty, Head, Power Electronics Division, TMEIC Industrial Systems Pvt. Ltd., Vasanthanarasapura Industrial Area, Tumakuru and Dr. M S Raviprakash, Principal SSIT presided over the program.



A Tech. talk on “Next-Generation Renewable Energy Technologies for a Net-Zero World” was organized on 16th October 2025 for 3rd Semester students. Dr. Rajanna S, Professor & HoD of EEE, Malnad College of Engg. Hassan was the resource person.



An expert talk on “Bridging the Skill Gap: Expectations of Industry from Graduates” was organized on 30th Oct. 2025 for 7th Semester students. Dr. Srinivas Jamkhandi, project Scientist (C) at MSME CoE, IISc Bengaluru was the speaker.



Yanthrik 2025-26 is a department fest organized by the Mechanical Engineering Association (MEA) involves Inauguration of MEA Activities for the academic year 2025-26 and Technical Talk. Yanthrik 2025-26 was organized on 24th October 2025 began with FLEX DROP near the main building, chief guest Mr. VIJAYA KUMARA, Assistant Manager-EOHS, Kern-Liebers India Pvt Ltd, Anthrasanahalli Industrial area, II Phase, Tumkur, Dr M S Raviprakash, Dr Renukulatha, Principal, SSIT and Dean (Aca) Prof & Head, Dept. of CSE(CY) were present. Dr Hemanthkumar T R, Prof., and Head, Dept. of ME, Dr. Annapoorna T L, Asso. Prof. m Dept. of ME, were the faculty advisors. Faculties, nonteaching staff, MEA office bearers and students were witnessed this occasion. The chief guest Mr. VIJAYA KUMARA, Assistant Manager-EOHS, Kern-Liebers gave a technical talk on "Industry Safety". Students who excelled in extra and co-curricular activities were honored with memento. The prizes were distributed to the students of academic toppers from 1st year to final year.



Dept. of Robotics and Artificial Intelligence organized its 1st Branch Inauguration Ceremony, under the name "Robonauts." The event was graced by Mr. Madhu Mohan R, Founder and Head of Incube R&D Innovation and Consultancy, as the Chief Guest. The Guests of Honour were Dr. Renukalatha S, Dean (Academics), and Dr. Sreekanteshwara Swamy, Research Coordinator. The event was a grand success, owing to the dedicated efforts of the Organizing Chair, Dr. Manu S, Head, Department of Robotics and Artificial Intelligence, Faculty Coordinator, Mrs. Vidyashree T. C., along with the student coordinators and volunteers.



Dept. of MBA organised a Special Lecture on "Crafting Research with Confidence" for the 3rd semester students and Mr. Eshwar V, Asst. Prof., and Head, Dept. of Management, Hindustan College, Mysuru was the resource person, on 18th October 2025.



Dept. of MBA organised a Special Lecture on "Entrepreneurship and Innovation for Business Schools" and the resource person was Dr. Praveen Kumar C. Asso. Prof., Dept. of EEE, on 8th October 2025.



Dept. of MBA organised Hands-on Workshop on "CampustoCorporateReadiness" for MBA Students to equip the students with the skill sets and Dr. Padmashree G S, Partner of Bhaavtharang & Counsellor, was the resource person, on 31st October 2025.

- Dept. of ECE organized five day value added course was organized for the 2nd year students on “Python Accelerator” and the resource speakers were from Blend Vidya Ed Tech, Bengaluru from 10th to 14th October 2025. The event was coordinated by Dr.Sharadha Guptha M N, Asso.Prof., and Mr.C R Mohan Kumar , Asst. Prof., Dept. of ECE.
- Five day value added course was organized for the 4th year students on “Future careers in AI:Generative AI for signal Processing, Communication and Embedded Systems” from 6th to 10th October 2025 coordinated by Dr.Anitha Devi M D, Asso. Prof., and Mrs. A U Bindu, Asst. Prof., Dept. of ECE.

College Events

In the ever increasing requirement to support research and development among students and young faculty, in various domains of cutting edge Technology the “Lecture Series on Emerging Research Topics” is organised every week to help researchers to get motivated besides giving the elite platform for the successful researchers to present their innovative research topics.The below is the scheduled tasks:



Dr. Pradeep A R, Associate Professor, Dept. of Civil with the title “Behavioural study on Steel Frames with different infills subjected to Lateral Load” on 10th October 2025.



Dr.Sahana T S, Associate Prof., and Head, Dept. of Civil Engineering with the title “Mechanical Characterization of Adhesive in Strain Gauge Mounting” on 24th October 2025.



Dr.Latha K, Associate Professor, Dept. of BME, with the title “Design and Development of Multi-modal Biometric System using ECG, Audio and Visual Cues”, on 17th October 2025.



Dr.Sumana L,Asso. Prof.,Dept. of TCE with the title “ Reconfigurability of Microwave Antennas using Shape Memory and Alloys”, on 31st October 2025.

- Yoga for Health & Well-being was Organized by Mr. Puneeth K, Asst. Prof., Dept. of Mechanical Engg, Yoga & Wellness Centre SSIT, in association with Sree Ranga Academy of Yoga & Art for 1st Year Students, with the objective is to promote physical fitness, mental clarity, emotional balance and holistic well being among young learners through simple and effective yoga practices in life from 6th-10th Oct 2025
- The Internal Quality Association Cell (IQAC), SSIT in association with HAL Helicopter Division, Tumakuru organised Dr.HMG Extramural Series on the topic “Vigilance-Our shared responsibility” and Suvarna Gaurahari Das, Director of ISKCON YOUTH FORUM (IYF) and Spiritual mentor at ISKCON, South Bengaluru was the speaker, on 8th October 2025.
- Student election was scheduled and conducted on 13th October 2025 for the students of all branches.



IEEE day was celebrated on October 11th 2025, leveraging Technology for better tomorrow. Dr. Ashwini Appaji, Vice Chair, IEEE Women in Engineering-India Council, ExCom Member, IEEE Bangalore Section was the chief guest, officiated by Dr. Renukalatha S, Head, Dept. of CSE(CY), Dean Academics, Faculty Advisor(IEEE-CS), SSIT and the event was presided by Dr.M S Raviprakash, Principal, SSIT. Dr.M C Chandrashekhar, Head, Dept. Of ECE, Branch Counselor, SSIT IEEE-SB, Dr. Savitha D Torvi, Head, Dept. of ETE, Branch Mentor, SSIT IEEE-SB and Dr.Sharada Guptha M N, Associate Professor, Dept.of ECE, Branch Convener, SSIT IEEE-SB were the organizing team.



To commemorate the 150th birth anniversary of Sri Sardar Vallabhbhai Patel, NSS volunteers took the Nasha Mukta Bharat pledge on 29th October 2025. The pledge aims to achieve the following goals:

1. Encourage Responsible Behaviour: It will instil a sense of responsibility among volunteers to stay away from drugs.
2. Promote Unity and Commitment: The pledge will foster a sense of unity and collective purpose among volunteers, encouraging them to work together towards a common goal.
3. Empower Youth: As the youth are the backbone of our nation's progress, this initiative will empower youth to contribute actively to developing a drug-free society

Dr. B.S.Ravikiran, NSS Prog Coordinator, SSAHE and Prof.S.H.Jeevith, NSS Officer, SSIT were present on this occasion. About 100 NSS volunteers and students took part in this activity



Dr. Sreenath K, Asso.Prof, Dept. of EEE took charge as Coordinator, Global CIE, SSIT on 16th October 2025.

NCC

- On the occasion of Gandhi Jayanti and Lal Bahadur Shastri Jayanti, a Swachh Bharat Abhiyan was organized at 6/4 Coy NCC, SSIT, Tumkur on 2nd October 2025. Our NCC cdt's participated enthusiastically, taking part in activities such as cleaning the public areas and awareness about the Health and Hygiene. T

- Cdt. Tharun Kumar M, 5th Sem from Department of Computer science and Engineering, SSIT, attended EBSB camp (National Camp) at Ujjain, Madhyapradesh from 22nd September to 3rd October

- Cdt's (3 girls) attended CATC camp at Air Force Station, Jalahalli, Bangaluru from 12th to 19th October 2025.

- 45 NCC Cadets are successfully attended the quiz held on the Theme 'VIKSIT BHARAT QUIZ, (online mode) and got the certificate from GoK on 27th October 2025.

NSS

- National Unity Day was observed on 31st October 2025 to commemorate the 150th birth anniversary of Sri Sardar Vallabhbhai Patel. NSS volunteers took the pledge to foster and reinforce the dedication to preserve, strengthen unity, integrity and security of our nation. Dr. B.S.Ravikiran, NSS Prog Coordinator, SSAHE and Prof.S.H.Jeevith, NSS Officer, SSIT were present on this occasion. About 440 NSS volunteers and students took part in this activity.

Technical Article

Energy-Efficient Data Aggregation in Wireless Sensor Networks Using Artificial Intelligence Approach

Wireless Sensor Networks (WSNs) consist of numerous sensor nodes that monitor environmental conditions such as temperature, pressure, or motion. These networks are widely used in applications like environmental monitoring, industrial automation, and smart cities. However, one of the biggest challenges in WSNs is limited energy resources, as sensor nodes are typically battery-powered and deployed in remote areas. Efficient energy management is therefore essential to prolong network lifetime and maintain reliable data communication.

Data aggregation is a key technique used to minimize redundant transmissions and conserve energy. Traditional aggregation methods, however, often struggle to adapt to dynamic network conditions, resulting in data loss or communication delays. To address these issues, Artificial Intelligence (AI)-based approaches have been introduced to enhance data aggregation efficiency. AI techniques such as machine learning, deep learning, and swarm intelligence enable intelligent clustering, optimal routing, and adaptive data fusion.

By integrating AI into WSN operations, energy consumption can be significantly reduced while maintaining data accuracy and network performance. AI-driven models improve scalability, fault tolerance, and adaptability to changing environmental conditions. This combination of AI and WSNs supports the development of sustainable, intelligent, and energy-efficient sensor networks that extend operational lifetime and enhance IoT-based systems.

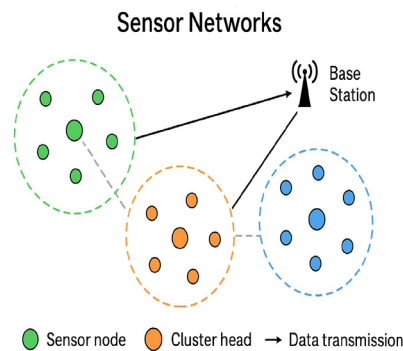
Recent studies highlight several AI-based approaches for improving energy efficiency in WSNs. Machine learning algorithms like K-Means clustering, Support Vector Machines (SVM), and Neural Networks are used for clustering nodes and predicting redundant data. Swarm intelligence techniques such as

Ant Colony Optimization (ACO) and Particle Swarm Optimization (PSO) are applied for optimal routing, reducing transmission costs. Deep learning models further improve data fusion accuracy by learning complex data correlations.

The K-Means Clustering Algorithm is one of the most widely used unsupervised learning methods for grouping data based on similarity. In WSNs, K-Means effectively organizes sensor nodes into clusters, reducing communication overhead and conserving energy. It partitions nodes into K clusters, each represented by a centroid, aiming to minimize intra-cluster distances and maximize inter-cluster separation. Cluster heads aggregate data from their members and send it to the base station, reducing redundant transmissions and extending network lifetime.

Although K-Means is simple and efficient, it requires knowing the number of clusters (K) in advance and may not perform optimally in dynamic or non-uniform deployments. Simulation studies show that AI-based data aggregation can reduce total energy consumption by 30–50% compared to traditional methods, while also improving fault tolerance and adaptability.

However, AI implementation in WSNs introduces additional computational and memory requirements. Therefore, lightweight and distributed AI models are preferred to maintain a balance between intelligence and energy efficiency. Enhanced versions like Fuzzy K-Means and AI-based adaptive K-Means have been developed to overcome these limitations and further improve performance.



| Dr.Nirmala G
Associate Professor
Dept. of CSE

Quote of the month



“I am an Indian, and we celebrate all festivals in every region of every religion. That is why it is called Incredible India”

| Vinayak Muraleedharan



November Notifications

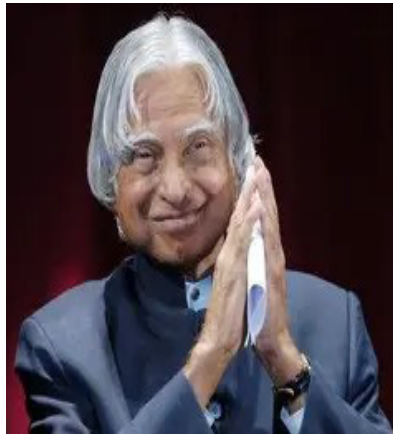
- (i) Kannada Rajyothsava
- (ii) Lecture Series
- (iii) Extramural Talk
- (iv) Convocation

Person of the month

Dr. A P J Abdul Kalam (1931-2015)

Dr. Avul Pakir Jainulabdeen Abdul Kalam, fondly remembered as the “Missile Man of India,” was one of the most beloved and respected figures in Indian history. Born on October 15, 1931, in Rameswaram, Tamil Nadu, into a humble family, Kalam’s life was a remarkable journey of hard work, simplicity, and dedication to the nation. His father was a boat owner, and though the family had limited means, young Kalam was filled with curiosity and a thirst for knowledge.

After completing his early education in Rameswaram, Kalam graduated in physics from St. Joseph’s College, Tiruchirappalli, and later studied aerospace engineering at the Madras Institute of Technology. His career began at the Defence Research and Development Organisation (DRDO) and later flourished at the Indian Space Research Organisation (ISRO). There, he played a pivotal role in developing India’s first satellite launch vehicle, SLV-III, which successfully deployed the Rohini satellite in 1980. Dr. Kalam’s major contributions came in the field of defense technology, where he led the development of ballistic missiles like Agni and Prithvi, earning him the title “Missile Man.” His leadership in the Pokhran-II nuclear tests in 1998 established India as a nuclear power, enhancing its global stature. Beyond his scientific



achievements, Dr. Kalam was known for his humility, patriotism, and vision for India’s development. In 2002, he became the 11th President of India, serving till 2007. Fondly called the “People’s President,” Kalam reached out to students and common citizens, inspiring millions with his speeches and writings. His famous vision document, “India 2020: A Vision for the New Millennium,” outlined his dream of transforming India into a developed nation through science, education, and innovation. Even after his presidency, Dr. Kalam continued to engage with students and academic institutions. He believed that youth were the real strength of the nation and often said, “Dream, dream, dream. Dreams transform into thoughts and thoughts result in action.” His books, including Wings of Fire, Ignited Minds, and The Life Tree, continue to inspire people across generations.

Dr. A. P. J. Abdul Kalam passed away on July 27, 2015, while delivering a lecture at the Indian Institute of Management, Shillong — a fitting end for a man who lived and died inspiring students. His life remains a shining example of simplicity, integrity, and dedication to the nation. Dr. Kalam’s legacy continues to motivate millions to dream big, work hard, and serve humanity selflessly.

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