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## Editors Message

There is a saying "There are far better things ahead than any we leave behind"

As we step into the New Year with renewed hope and enthusiasm, I extend my warmest greetings and heartfelt wishes to every member of our institution. May this year bring happiness, good health, and abundant success to you and your families.

I would like to take this opportunity to sincerely congratulate our dedicated faculty members and talented students for their remarkable publications and outstanding achievements over the past year. Your commitment to academic excellence, research, innovation, and creative expression has brought immense pride and recognition to our institution. Each published paper, project, award, and accomplishment is a testament to your perseverance, intellectual curiosity, and hard work. Your success not only enhances your individual growth but also strengthens the academic culture and reputation of our institution.

As we move forward into this new academic phase, I would also like to wish all our students the very best for their upcoming examinations and results. Stay focused, believe in your abilities, and approach your studies with a positive mindset. Success comes to those who work consistently and remain committed to their goals.

Let this New Year be filled with fresh opportunities, greater achievements, and stronger collaboration among all of us.

Once again, wishing you all a very Happy and Prosperous New Year!

Focus on FOCUS and be a part of it .

| Dr.Vidyalakshmi K

## Publications and Conferences

- **Dr. Venkanagouda M Goudar**, Prof. and Head, Dept. of Mathematics has published the research paper titled "Thermal and mass transfer prediction of Casson based nanofluid flow over an exponential stretching sheet using a Mutli-Task Neural Network approach", at International Journal of Thermofluids, January 2026.
- **Mrs. Bhavani H S**, Asst. Prof, Dept. of MCA presented research article titled " Explainable and Uncertainty-Aware Diabetic Retinopathy Detection using DRN-CBAM-GBAW for Lesion-based Interpretability" at 7<sup>th</sup> International Conference on Mobile Computing and

Sustainable Information(ICMCSI-2026) held during 7<sup>th</sup> to 9<sup>th</sup> January 2026 at Purbanchal University, Nepal.

- **Dr. Batluri Tilak Chandra and Dr Annapoorna T L**, Asso. Prof., Dept. of Mech, Published the paper titled "Heat treatment-driven optimization of Al7075-AlN composites: A synergistic approach using experiments, statistics, and machine Learning" in European Journal of Materials (Tylor and Francis), vol 6, issue 01, Jan 2026.(Q2), DOI: 10.1080/26889277.2026.2612659
- **Dr. Batluri Tilak Chandra and Dr Annapoorna T L**, Asso. Prof., Dept. of Mech, Published the paper titled

“Impact of Wear Parameters and Heat Treatment on the Wear Rate of Aluminum Alloy/Al Nitride Composite: An Experimental Approach” in Smart Materials and Manufacturing Technologies for Sustainable Development (Springer), Book chapter, pp 81-99, Jan 2026. (Q1). [https://doi.org/10.1007/978-3-032-05542-2\\_6](https://doi.org/10.1007/978-3-032-05542-2_6).

• **Dr Bhaskar H B, Dr Lohith N**, Asso. Prof., Dept. of Mech, Published the paper titled “Optimization of Condensation Heat Transfer Coefficients Using Taguchi Method: Influence of Temperature, Surface Type and Coolant Flow Rate”, Journal of Institute of Engineers, Series C, Dec 2025. <https://doi.org/10.1007/s40032-025-01268-8>, (Q3)

• **Dr. Manjula Yerva**, Professor, Department of AI&ML has presented the paper titled “A Deep Context-Aware Framework for High-Resolution Soil Fertility Mapping in Precision Cultivation of Medicinal Crops” at the 6th International Conference on Image Processing and Capsule Networks (IC-IPCN 2026) organised by Kathmandu University, Dhulikhel, Nepal during 27<sup>th</sup> to 29<sup>th</sup>, January 2026.

• **Dr. Sunil K**, Prof., and Head, Dept. of Chemistry published an article entitled “Tuning electrical conductivity and dielectric properties of chitosan/polyaniline by doping with varying concentration of Nb<sub>2</sub>O<sub>5</sub> nanoparticles” in the journal “Solid State Ionics” Published by Elsevier (IF=3.3, Quartile 2- Indexed in Scopus and WOS) in January 2026.

• **Dr. Raju A S**, Prof., and Head Dept. of BME., published a paper titled “Data Mining for Etiological Diagnosis of Chronic Kidney Disease using advanced ML: Novel Clinical Models and Telemedicine Integration” in Scopus International Journal of Advanced Signal and Image Processing, SCOPUS INDEXED (Q1) <https://doi.org/10.29284/ijasis.11.2.2025.13-21> in January 2026.

• **Mr. Kantharaju**, Asst. Prof., Dept. of BME, published a paper titled “A Novel System to Capture and Create DIACOM and PACS Database” published in Springer nature 4<sup>th</sup> world conference on information system for business management Bangkok Thailand. [https://link.springer.com/chapter/10.1007/978-3-032-12996-3\\_6](https://link.springer.com/chapter/10.1007/978-3-032-12996-3_6) in January 2026.

• **Dr. M. Nagaraja**, Professor, Department of Physics and Dr. Sushma Prashanth, Associate Professor, Department of Physics published a research paper entitled “Tuning electrical conductivity and dielectric properties of chitosan/polyaniline by doping with varying concentration of Nb<sub>2</sub>O<sub>5</sub> nanoparticles”, in Solid State Ionics, Elsevier, Volume 437, 15, 2026, 117129 <https://doi.org/10.1016/j.ssi.2026.117129> in January 2026.

• **Dr. Chethan B. S.**, Assistant Professor, Department of Physics published a research paper entitled “Synthesis and anti-corrosive potential of a novel quinolinone derivative: Electrochemical, Adsorption, Morphological studies and Theoretical correlation” in Moroccan Journal of Chemistry, 14(1), J-Chem in January 2026.

and also published a research paper entitled “Probing the intermolecular interactions, binding affinity, charge density distribution of N-(3-chlorophenyl)-2-cyanoacetamide (NCPC) against Alzheimer’s disease: Insights of experimental and computational techniques” in Molecular Crystals and Liquid Crystals, in January 2026.

• **Mrs. Shwetha M. K**, Asst. Professor, Dept. of CSE, presented a research paper entitled “A Deep Residual Learning Framework with Grad-CAM Explainability for Multi-Class Dermatological Image Classification” at the 6th International Conference on Advances in Electrical, Computing, Communications, and Sustainable Technologies (ICEACT-2026), held at Shankaracharya Technical Campus (SSITC), Bhilai, Chhattisgarh, India, during 8<sup>th</sup> to 9<sup>th</sup> January 2026 [Online].

• **Dr. Shilpa G N and Dr. Nataraja C**, Assoc. Profs. Dept. of EEE have published Paper titled “Yolov8 based Smart Vision Navigation for Autonomous EV Charging Systems” published in Journal of Engineering research and Reports, vol. 28, issue 1, 27<sup>th</sup> January 2026.

• **Mr. Nandan N**, Asst. Prof. Dept. of EEE has published Patent titled “VExGER” with the application number 20254111388 A

• **Mrs. Likhitha U N**, Asst. Prof. Dept. of EEE, Dr. K R Jagadisha, Assoc. Prof. Dept. of EEE and Dr. Pradeep N, Assoc. Prof. Dept. of EEE have published a Paper titled “Prediction and Error Analysis of AC Breakdown Voltage in N<sub>2</sub>:O<sub>2</sub> mixture using ANN and Paschen Law-Correlation” published in IEEE Xplore, DoI:10.1109/ICEAMST67459.202511335975, 21<sup>st</sup> January 2026.

## Faculty Achievements

• 5 numbers of VGST proposals are submitted by faculty members in the Dept. of Civil Engineering

• **Dr. Vani B V**, Asst. Prof. Dept of ISE successfully defended her research work entitled “An Effective Artificial Intelligence Ensemble for Crop Yield Prediction and Plant Disease Identification for Smart Agricultural Application” under the guidance of **Dr. C D Guruprakash**, Prof., Dept of CSE, from SSAHE on 12<sup>th</sup> January 2026.

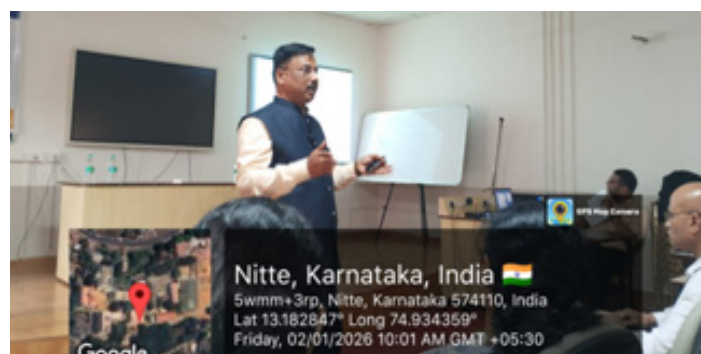
• **Ms. Naveena S R**, Asst. Prof. Dept of ISE successfully completed two NPTEL Courses “Introduction to Data Warehousing and Data Min-

ing” and “Cryptography” in JUL-DEC 2025.

- 3 numbers of VGST proposals are submitted by faculty members in the Dept. of Information Science and Engineering
- **Dr. C. K. Raju**, Professor and HOD, Department of AI&ML, successfully guided his Ph.D. scholar, Mrs. Shruthi B. M., in completing her doctoral research in Computer Science and Engineering titled “Design of Secured Energy Efficient Clustering and Routing Protocol for IoT-Based Wireless Sensor Networks.”
- **Dr. Jayaprakash H V**, Asso.Prof., Dept. of Chemistry, delivered a keynote speak on “Chemical Sciences in Indian Knowledge Systems: Rasashastra, Metallurgy & Early Material Science”. In the National Level Seminar on “IKS: India’s Own Science” jointly organized by Knowledge Consortium of Gujarat (KCG) Education Department, Government of Gujarat and Pramukh Swami Science & H.D. Patel Arts College on 22<sup>nd</sup> and 23<sup>rd</sup> January 2026.
- **Dr. Pradeep MN**, Assoc. Prof., Dept. of BME served as a Reviewer in an 4<sup>th</sup> International Conference on Knowledge Engineering and Communication Systems (ICKECS-2026). Organised By SJC Institute of Technology. Chickballapur- 562101, Karnataka.
- **Dr. M. Nagaraja**, Professor of Department of Physics has reviewed two research papers for the SCOPUS indexed journals: Results in Engineering, Materials Research Innovations and Electrochimica Acta.
- **Dr. Chethan B. S.**, Assistant Professor, Department of Physics has been appointed as a reviewer for Journal of Chemistry, an International Peer reviewed journal, Wiley Publisher.
- Faculty Dept. of CSE has submitted 6 project proposal for VGSt and 2 for FDP unde VGST.
- **Dr. Pratibha S. B.**, Associate Professor, Dept of CSE, was invited as an Expert Speaker and delivered a talk at the National Level Seminar on “IKS – India’s Own Science”, jointly organized by the Knowledge Consortium of Gujarat (KCG), Education Department, Government of Gujarat, and Pramukhswami Science and H.D. Patel Arts College, held on 22<sup>nd</sup> and 23<sup>rd</sup> January 2026.
- **Mrs. Noor Fathima Kunte**, Asst. Professor, Dept. of CSE, has submitted a proposal under the scheme “Award for outstanding research publications of VGST”.
- **Dr. M C Chandrashekhar**, Prof & Head., Dept. of ECE., was a Academia Guest Speaker at ExcelR’s Everyday Learning (EDL) for a 10-Hour Faculty Development Program on “Cloud Computing” organized by the Department of Electronics and Communication Engineering, Sri Siddhartha

Institute of Technology, Tumakuru in Collaboration with EXCELR from 19<sup>th</sup> to 23<sup>rd</sup> January 2026.

- **Dr Ghouse Ahamed Z**, Asst Prof., Dept. of ECE., Reviewed papers in the 4<sup>th</sup> IEEE International Conference on “ Intelligent and Innovative Technologies in Computing, Electrical and Electronics” organized by Department of Electronics and Communication Engineering and Department of Electrical and Electronics Engineering, BN-MIT Bengaluru during 22<sup>nd</sup> & 23<sup>rd</sup> January 2026.
- **Dr. Yogananda B S**, Assoc.Prof. Dept. of EEE- has served as Reviewer at the 4th IEEE Conference on Intelligent and Innovative Technologies in computing and Electronics held on 22<sup>nd</sup> and 23<sup>rd</sup> January 2026 organized by the department of E&C, BNMIT college of Engineering Bengaluru.
- **Mrs. Shaheena Khanum**, Asst. Prof. Dept. of EEE has successfully completed the course on “Microsoft Power BI Practical” on 17<sup>th</sup> January 2026 and “VMware Virtual Machines” on 24<sup>th</sup> January 2026 organised by Infosys Springboard.



**Dr. M. Nagaraja**, Professor, Department of Physics was a Resource person for the Two days-workshop on “Emerging Quantum Technology Paradigms: Innovative Concepts, Tools and Future Research Directions”, organized by Department of Physics NMAM Institute of Technology, Nitte, Karkala, Karnataka held on 2<sup>nd</sup> - 3<sup>rd</sup>, January 2026.



**Dr. Praveen Kumar C**, Assoc.Prof. Dept. of EEE has awarded appreciation certificate for his instrumental role as SPOC of the SWAYAM-NPTEL local chapter on 24<sup>th</sup> January 2026.



**Dr. Yogananda B S**, Assoc. Prof. Dept. of EEE has been invited as Resource person and delivered a talk on “Advanced Modelling for Sustainable Power and Mobility System” at Sir MVIT Bengaluru, on 7<sup>th</sup> January 2026.

## Student Achievements

- **Shobha A, Anagha B V, Mohammed Usman**, Kusuma 3rd semester MCA students has selected for free internship opportunity at SkylIX Technologie Pvt Ltd which was held on 30<sup>th</sup> Jan 2026.
- MTech CADS 12 number of students of Civil Engineering department have visited HAL, Nittur - to study the assembly process of helicopters on 20<sup>th</sup> January 2026.
- **Sharath K** (23CV420), 8<sup>th</sup> semester, Department of Civil Engineering has placed in Kalpataru Projects International Ltd as a Graduate Eng. Trainee. Package 4.5 LPA
- **S. K. Abhyudhy**, student of 4<sup>th</sup> year, Department of AI&ML served as the resource person for a talk on “Energy Conservation” held at Government High School, Honasigere (Tumakuru), Karnataka, on 31<sup>st</sup> January 2026 under the Mission LiFE Eco Clubs initiative.
- **Rishi Jijanthkar and Rakshith**, students of 3rd year, Department of AI&ML have launched a startup named Drenova, a technology venture focused on AI-driven hardware architectures and integrated digital systems, specializing in Edge-First AI, autonomous agent workflows, and a direct-connect placement platform that bridges institutions with global employers in January 2026.
- **Mohith Kumar S and Sarthak Palgota**, students of 2nd year, Department of AI&ML, have launched a startup named Remox Innovations, a technology venture focused on developing AI-powered software and digital services for the gaming and education sectors, operating on a freemium subscription model and catering to students, gamers, and small businesses in January 2026.
- **Prem Ranjith Varma K** of 5<sup>th</sup> Sem has been offered the role of Software Developer & Cyber Security Intern at ReelCodeAsymp Corporation Pvt. Ltd. starting from 19<sup>th</sup> January 2026. The in-

ternship focuses on AI/ML-driven systems, back-end development, and secure software solutions.

- **Tarun Kumar V S**, 5<sup>th</sup> semester student, Dept. of CSE, has passed the HackerRank Role certificate test and received the certificate of accomplishment as Software Engineering Intern, on 29<sup>th</sup> January 2026.

## Faculty Participation

- **Mrs. Anuradha G R**, Asst. Prof, Dept. of MCA, has attended five day International FDP on “Empowering Educators: AI Tools for Innovative Teaching and Research” from 5<sup>th</sup> to 9<sup>th</sup> January 2026 organized by Dept of CSE with Cyber Security, Vellalar College For Women, Tamilnadu.
- **Mrs. Nanda K V**, Asst. Prof, Dept. of MCA, has attended five day National level FDP on “Explainable AI and MLOPS with AWS”, organized by Mevi Technologies from 19<sup>th</sup> to 23<sup>rd</sup> January 2026.
- **Dr. Kavyashree N**, Associate Prof, Dept. of MCA, has attended five day ATAL FDP on “Recent Trends in Artificial Intelligence and Data Science” at College of Engineering from 12<sup>th</sup> to 17<sup>th</sup> January 2026.
- **Dr Pradeep A R.**, Assoc. Prof., Dept of Civil Engg has successfully participated in the National Youth Day event organized by Rajshree Institute of Management & Technology, Bareilly, in association with The Institution of Engineers (India), Bareilly Local Centre and Institution’s Innovation Council (IIC), Ministry of Education, New Delhi on 12<sup>th</sup> January 2026.
- **Mr. Rakesh M**, Asst. Prof., Dept of Civil Engg has participated as a resource person on topic “Water Treatment and Pollution Control” for workshop on “Embedded Programmable Logic Controllers for Industrial Applications“ for HMS Polytechnic students organized by Department of EEE, SSIT, Tumakuru on 27<sup>th</sup> January 2026.
- **Dr Pradeep A R.**, Assoc. Prof., and Mrs. Kavya N, Asst. Prof., Dept of Civil Engg has participated in the FDP on “Green Construction – An Approach Towards Renewable Energy & Resource Optimization” organized by the Department of Civil Engineering, Rizvi College of Engineering, Mumbai conducted from 13<sup>th</sup> to 17<sup>th</sup> January 2026.
- **Ms. Naveena S R**, Asst. Prof. Dept of ISE participated (online) in ATAL FDP on “Digital Forensics in Cyber Security” at ALVA’S Institute of Engineering and Technology, from 5<sup>th</sup> to 10<sup>th</sup> January 2025.
- **Dr Annapoorna T L and Dr Leela B N**, Asso. Prof., Dept. of Mechanical, has participated in Five Days Faculty Development Programme on “Revolution-

izing Education :AI Innovation in Engineering and Technology” organized by Department of Chemical Engineering and Biotechnology ,SIT, Tumkur in association with VGST held from 19<sup>th</sup> to 23<sup>rd</sup> January 2026.

• **Dr. Batluri Tilak Chandra and Dr .Roopashree C R**, Asso. Profs., Dept. of Mech., has participated in one week National level workshop on “Recent Trends in Manufacturing Methods for Industry Application” organized by the Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology (A) in collaboration with Advanced Systems Laboratory (ASL), DRDO, and Indian Society for Advancement of Materials and Process Engineering (ISAMPE), Hyderabad Chapter, held from 5<sup>th</sup> to 10<sup>th</sup> January 2026 .

• **Mr. Pruthviraj K, Mrs, Sandya V & Mr. Madhu O**, Asst. Prof., Dept. of Chemistry participated in 5 days FDP on “Revolutionizing Education : AI innovations in Engineering and Technology” organized by Dept. of Chemical Engineering and Dept. of Biotechnology, Sri Siddaganga Institute of Technology, Tumakuru in association with VGST, GoV. of Karnataka from 19<sup>th</sup> to 23<sup>rd</sup> January 2026.

• **Dr. C K Raju**, Professor and Head, Department of AI&ML, has submitted a proposal to conduct a 4-day Faculty Development Programme (FDP) under VGST on “Agentic AI”, with a total budget of ₹3.3 lakhs.

• **Dr. Savitha C**, Associate Professor, Department of AI&ML, has submitted a proposal to conduct a 4-day Faculty Development Programme (FDP) under VGST on “Quantum Computing”, with a total budget of ₹3.3 lakhs.

• **Dr. C. K. Raju**, Professor and HOD, Department of AI&ML actively participated in the Academic Leadership Program “Pramatha” held on January 23<sup>rd</sup> and 24<sup>th</sup>, 2026, at the BOSCH Learning Campus, Bengaluru.

• **Dr. Manjula Yerva**, Prof., Department of AI&ML attended five days FDP on “Real Time Digital Signal Processing & Generative AI in Multimodal Medical Imaging” organized by Department of Electronics and Communication Engineering, in association with IEEE Mysore Subsection, ATME College of Engineering, Mysore from 6<sup>th</sup> to 10<sup>th</sup> January 2026.

• **Dr Savitha C**, Asso.Prof., Department of AI&ML has participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on “Artificial Intelligence (AI) leading to Academic Excellence: Transforming Academic Writing & Research”, at ORIENTAL COLLEGE OF MANAGEMENT, BHOPAL from 12<sup>th</sup> to 17<sup>th</sup>, January 2026.

• **Mrs. Kavya R, Vindya AS, Chandana V**, Assistant Professors, Department of AI&ML, attended five day’s FDP on “Joint Communication and Sensing Systems

in 6G Wireless Technology” organized by Department of Electronics and Telecommunication Engineering, SSIT College, Tumkur from 5<sup>th</sup> to 9<sup>th</sup> January 2026.

• **Mr. Jeevan M**, Assistant Professors, Department of AI&ML, attended five day’s FDP on “Explainable AI and MLOPS with AWS” organized by MeVi Technologies from 19<sup>th</sup> to 23<sup>rd</sup> January 2026.

• **Mr. Manoj DR**, Assistant Professors, Department of AI&ML, participated in 1 day inter-college sports competition at PES College, Bangalore on 27<sup>th</sup> January 2026

• **Mrs. Asha H R and Ms. Navyashree R**, Asst. Profs., Department of Data Science, participated in a Faculty Development Program on “Explainable AI and MLops with AWS,” organized by Mevi Technologies LLP held from 19<sup>th</sup> to 23<sup>th</sup> Jan 2026.

• **Dr. Raju A S**, Prof., and Head Dept. of BME., has participated in five days Faculty Development Program on “Real -Time Digital Signal Processing and Generative AI in Multimodal Medical Imaging” Organised by the Department of Electronics and Communication Engineering Association with IEEE Mysuru from 6<sup>th</sup> to 10<sup>th</sup> January 2026 at ATME college of engineering Mysuru.

• **Dr. Purnima P S**, Asso. Prof., Dept. of BME., has participated in 5-days Faculty Development Program on “Joint Communication and Sensing Systems in 6G Wireless Technology.” Organised by Department of Electronics and Telecommunications, SSIT, from 5<sup>th</sup> to 9<sup>th</sup> January 2026.

• **Mrs. Bhagyajyothi M. K**, Asst. Professor, Dept. of CSE, participated and successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Role of AI in Next Generation Applications, conducted by Shri Someshwar Shikshan Prasarak Mandal’s Sharatchandra Pawar Institute of Technology, Someshwar Nagar, from 19<sup>th</sup> to 14<sup>th</sup> January 2026 [Online].

• **Dr. Pratibha S.B**, Associate Professor , Bharathi N and Shree Bhargavi M, Asst. Professor, Dept. of CSE, participated and successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Program on “Recent Trends in Artificial Intelligence and Data Science”, conducted by College of Engineering, Pune, from 12<sup>th</sup> to 17<sup>th</sup> January 2026 [Online].

• **Mr. Sharath Babu C. G and Mrs. Shwetha M. K**, Asst. Professor, Dept. of CSE, participated and successfully completed five-day Faculty Development Program on “Joint Communication and Sensing System in 6G Wireless Technology”, held from 5<sup>th</sup> to 9<sup>th</sup> January 2026 at Sri

Siddhartha Institute of Technology, Tumkur [Online].

- **Ms.Thanushree Y, Mrs.Meghana C. V, and Ms. Harshita T.S,** Asst. Professor, Dept. of CSE, attended a two-day National Level Seminar on “IKS–India’s Own Science”, jointly organized by the Knowledge Consortium of Gujarat (KCG), Education Department, Government of Gujarat, and Pramukh Swami Science and H. D. Patel Arts College, held on 22<sup>nd</sup> and 23<sup>rd</sup> January 2026 [Online].
- **Ms.Thanushree Y,** Asst. Professor, Dept. of CSE, participated in the 8th International Staff Tournament 2026, held on 27<sup>th</sup> January 2026, and competed in the Throwball event at PES College, Bengaluru.
- **Dr. Divya Prabha,** Prof., Dept. of ECE., **Dr. Ashwini S Shivannavar,** Asso. Prof., Dept. of ECE., participated in a Six Days Faculty Development Program on “Emerging trends in Artificial Intelligence and its Real World Applications”, organized at B Jain Institute of Technology, Management and Research under ATAL Academy (A-ICTE Sponsored) from 19<sup>th</sup> to 24<sup>th</sup> January 2026.
- **Dr. Ashwini S Shivannavar,** Asso. Prof., Dept. of ECE., participated in a Five Days National Level Faculty Development Program on “Explainable AI and MLOps with AWS”, organized by Mevi Technologies LLP held from 19<sup>th</sup> to 24<sup>th</sup> January 2026 (7.00PM to 8.30PM).
- **Dr. M C Chandrashekhar,** Prof & Head., Dept. of ECE., **Dr. Sharadha Gupta,** Asso. Prof., Dept. of ECE., attended a 10-Hour Faculty Development Program on “Cloud Computing” organized by the Department of Electronics and Communication Engineering, Sri Siddhartha Institute of Technology, Tumakuru from 19<sup>th</sup> to 23<sup>rd</sup> January 2026.
- **Dr. Anitha Devi M D,** Prof, Dept. of ECE., and **Dr. Shyla M K,** Asso. Prof., Dept. of ECE., participated in a 5 day FDP titled “Real-Time Digital Signal Processing & Generative AI in Multimodal Medical Imaging” Organized by Department of Electronics and Communication Engineering, ATME College of Engineering, Mysuru in association with IEEE Mysuru Subsection from 6<sup>th</sup> to 10<sup>th</sup> January 2026.
- 10 Faculty members of ECE Attended a 10-Hour Faculty Development Program on “Cloud Computing” organized by the Department of Electronics and Communication Engineering, Sri Siddhartha Institute of Technology, Tumakuru in Collaboration with EXCELR from 19<sup>th</sup> to 23<sup>rd</sup> January 2026.
- 3 Faculty members attended 5 days FDP on “Joint Communication & Sensing Systems in 6G Wireless Technology” organized by Department of Electronics & Telecommunication Engineering, SSIT, Tumakuru from 5<sup>th</sup> to 9<sup>th</sup> January 2026.

- **Dr. Ravi Prasad D,** Assoc.Prof. Dept. of EEE, **Mrs. ShaheenaKhanum** Asst.Prof. Dept. of EEE and **Mrs. Sowmya K R** Asst.Prof. Dept. of EEE have attended ATAL FDP on “Next Generation Semiconductor Technologies; Design, Fabrication and Applications in AI, IoT, 5-G Systems” held at Sahrdaya College of Engg. & Technology during 18<sup>th</sup> to 24<sup>th</sup> January 2026.
- **Mrs. Shaheena Khanum,** Asst. Prof. Dept. of EEE has participated in “Career Guidance Session” organized by GRADGURU Innovation on 20<sup>th</sup> January 2026.
- **Mrs. Shwetha T.M, Ms. Priyanka N Mand Mrs. Sumaya Banu,** Asst.Prof. Dept. of EEE have attended 5 days FDP on “Joint communication sensing systems in 6G wireless Technology” held at Sri Siddhartha Institute of Engg. & Technology during 5<sup>th</sup> -to 9<sup>th</sup> January 2026.
- **Mrs. Shwetha T.M,** Asst.Prof. Dept. of EEE- has attended ATAL FDP on “Advances in Semiconductor Technologies from fundamentals to AI driven VLSI Design and Packaging” held at The North Cap University College of Engg. & Technology during 12<sup>th</sup> to 17<sup>th</sup> January 2026.
- **Mrs. Likhitha U N & Mrs. Sowmya K R,** Asst.Prof. Dept. of EEE have participated in FDP on “Cloud Computing” during 19<sup>th</sup> to 23<sup>rd</sup> January 2026 for 10 hours organized by Geetanjali Institute of Technical Studies Udaipur & Sri Siddhartha Institute of Technology Tumakuru.
- **Dr. Nasreen Taj M,** Assoc.Prof. Dept. of EEE has attended FDP on “Next Gen. EV Innovation: A Holistic, Blended, Design, Electrical Systems and AI Intelligence held at BMS Institute of Technology Bengaluru during 19<sup>th</sup> to 23<sup>rd</sup> January 2026.
- **Mrs. Likhitha U N,** Asst.Prof. Dept. of EEE attended ATAL FDP on “Advancements in Semiconductor Technology: Trends, Applications, and Future Prospects” held at Shivnagar Vidya Prasarak College of Engineering, Malegaon during 19<sup>th</sup> to 24<sup>th</sup> January 2026.
- **Dr. Ravi Prasad D,** Assoc. Prof. Dept. of EEE, **Mrs. Shaheena Khanum,** **Mrs. Likhitha U N** Asst. Prof. Dept. of EEE and **Ms. Vintha M L** Asst. Instructor Dept. of EEE have participated in Throwball in 8th International Staff Tournament 2026 at PES University, Bangalore held on 27<sup>th</sup> -31<sup>st</sup> January 2026.
- **Dr. Yogananda B S,** Assoc.Prof. Dept. of EEE has participated in badminton in 8<sup>th</sup> International Staff Tournament 2026 at PES University, Bangalore held on 27<sup>th</sup> -31<sup>st</sup> January 2026.
- **Mrs.Kouser Taj and Mrs.Vidyashree T C,** Assistant Professor, Department of Robotics and Artificial Intelligence has , attended a 5-day Faculty Development Program titled “Joint Commu-

nication & Sensing Systems in 6G Wireless Technology” conducted by Sri Siddhartha Institute of Technology, Tumakuru from 5<sup>th</sup> to 9<sup>th</sup> January 2026.

• **Mrs. Kouser Taj**, Asst. Prof., Department of Robotics and Artificial Intelligence has attended a 5-day Faculty Development Program on Cloud computing organized by ExcelR Edtech Pvt. Ltd. From 19<sup>th</sup> to 23<sup>rd</sup> January 2026.



• **Mr. Sri Ramu D S**, Asst Prof., Dept. of ECE., attended the IEEE-MTTs Annual General Meeting (AGM) - 2026 at Grand Mercure, Bangalore on 24<sup>th</sup> January 2026.

## Placement News

The Department of Training and Placement report for January 2026 shows strong placement and internship activity for the 2026 batch, with multiple company drives, ongoing recruitment processes, and confirmed selection results. During this month, several organizations participated in campus recruitment and internship programs, creating significant opportunities for students across technical and corporate domains. According to the placement summary, companies such as MRI Software (7), In Time Tec (0), Eleation (0), KPMG (15), Ocean Link Sea Service (7), and Kalpataru Projects International Ltd. (1) contributed to final placement outcomes, giving a placement total of 30 students selected. Internship programs also recorded high engagement, with major participation from Nash Industries (42), QSpiders Phase 1 (34), QSpiders Phase 2 (33), Besent Technology (21), Dhee Coding (20), Tap Academy (13), Pentagon Space (13), Technologies Global (4), Cloudninecare (2), and Global Quest Technologies (5), resulting in 181 internship selections. Altogether, placements and internships reached a combined total of 211 student opportunities for the month. The report also lists 34 structured placement drives conducted under the SSIT/TPO Drive series, covering

both placement and internship categories, indicating systematic outreach and scheduling by the placement cell. Notably, two recruitment drives completed in January confirmed results: Ocean Link Sea Services selected 7 students, and Kalpataru Power Transmission Limited selected 1 student, with some drives conducted earlier but results announced this month. Several additional companies are still in the recruitment pipeline with registration links already shared. Overall, January 2026 reflects coordinated placement operations, broad recruiter participation, and measurable student success with 30 students selected for placements and large-scale internship onboarding.

## Department Activities



**Department of Mechanical Engineering had MOU with KGTTI, Bangalore for providing Training and internship to students on 16<sup>th</sup> Jan 2026.**



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**Dr. M C Chandrashekhara, Prof & Head, Dept. of ECE was a Convener and Dr. Sharadha Gupta, Asso. Prof., Dept. of ECE was a Coordinator for a 10-Hour Faculty Development Program on “Cloud Computing” organized by the Department of Electronics and Communication Engineering, Sri Siddhartha Institute of Technology, Tumakuru in Collaboration with EXCELR from 19<sup>th</sup> to 23<sup>rd</sup> January 2026.**



The Department of Robotics and Artificial Intelligence, participated in an Academic / Exposure Visit to REVA University on 14<sup>th</sup> January 2026 to observe advanced laboratory equipment and facilities related to Robotics and Artificial Intelligence. The visit was also attended by Dr. Manu, Head of the Department, and Mr. Yashwanth, Mrs. Kouser Taj and provided valuable practical exposure supporting curriculum enrichment and teaching-learning enhancement.

## College Events



Dr. Mahantesh M. Nadakatti assumed charge as the new Principal of SSIT on 1<sup>st</sup> January 2026. On this occasion, Dr. M. S. Raviprakash, who served the institution with dedication and distinction for the past six years as Principal of SSIT, was formally relieved from his duties. The entire SSIT family expresses its heartfelt gratitude to Dr. Raviprakash for his exemplary leadership, commitment, and valuable contributions to the growth and success of the institution. We also extend a warm welcome to Dr. Mahantesh M. Nadakatti and look forward to his visionary leadership in guiding SSIT towards greater heights of excellence.



The 77<sup>th</sup> Republic Day was celebrated with great pride and patriotism at SSIT on 26<sup>th</sup> January 2026. The occasion was marked by the hoisting of the National Flag by the Principal, Dr. Mahantesh M. Nadakatti, who addressed the gathering and spoke about the significance of the day and the values enshrined in our Constitution. The celebration was attended by all Deans, Heads of Departments, Section Heads, faculty members, NCC cadets, and students, making it a grand and dignified event. The program concluded with the singing of the National Anthem, patriotic songs, and the distribution of sweets, fostering a spirit of unity and national pride among everyone present.



Ground breaking ceremony of the new building at SSIT, for the merging new branch CSE(AIML) in association with UpGrade was made on 15<sup>th</sup> January 2026. Dr. G Parameshwara, Honorable Home Minister, Govt. of Karnataka, Chancellor-SSAHE inaugurated the event. On the day of Ground breaking ceremony, discussion was made with . Dr. G Parameshwara, Honorable Home Minister, Govt. of Karnataka, Chancellor-SSAHE, by Mr.Rudresh K R , Physical Education Director, SSIT for a new state of art Sports center at SSIT for which there was a positive response.

## NSS

- **Martyrs' Day-2026** was observed in SSIT, Tumkur on 30<sup>th</sup> January 2026 in the memory of those who sacrificed their lives during the struggle for India's freedom and to commemorate the death anniversary of Father of Nation Mahatma Gandhiji. Deans, HoDs, teaching & non teaching staff members and students observed 2 minutes silence to pay homage to the Indian martyrs who fought for the freedom of India. Dr.B.S.Ravikiran NSS Programme Coordinator SSAHE and Prof.S.H.Jeevith, NSS Officer, SSIT were present on the occasion.
- **National Voters' Day** was observed in SSIT, Tumkur on 25<sup>th</sup> January 2026 to mark the Foundation day of Election Commission of India, which was established on 25<sup>th</sup> January 1950. The main purpose of the National Voters' Day celebration is to encourage, facilitate and maximize the enrolment, especially for the new voters. Dedicated to voters of the country, this Day is utilized to spread awareness among voters for promoting informed participation in the electoral process. Students took the pledge. Dr. B.S.Ravikiran, NSS Programme Coordinator, SSAHE, HoDs, faculty and non teaching staff, NSS Officer SSIT Sri.S.H.Jeevith were present on the occasion.

## Sports

Badminton and Throw ball (Women Team) and Volleyball (Men Team) were sent to National Faculty Sports Meet organized by PES College Bangalore from 27<sup>th</sup> to 31<sup>st</sup> January 2026.

## Technical Article

# AI-Based Prediction of Corrosion in Aerospace Materials



Aerospace components operate under extreme environmental and mechanical conditions such as high temperature variations, humidity, stress, and chemical exposure. Over time, these factors lead to corrosion and structural degradation, which can weaken materials, increase maintenance costs, and affect safety.

Traditionally, corrosion detection relies on periodic inspections and laboratory testing. While useful, these approaches are mostly reactive, identifying damage only after it has already developed. With advancements in Artificial Intelligence, smarter and more proactive solutions are emerging. One promising approach combines Artificial Neural Networks (ANN) and Particle Swarm Optimization (PSO) to predict corrosion rates before serious damage occurs. ANN models are inspired by the human brain and are capable of learning complex relationships between multiple influencing factors such as temperature, humidity, stress levels, pH conditions, exposure time, and coating thickness. In aerospace materials like aluminum and titanium alloys, corrosion behavior depends on nonlinear interactions among these variables. ANN is highly effective in capturing such complex patterns.

However, the accuracy of ANN depends on how well its internal parameters are optimized. Conventional training methods may not always find the best solution. PSO, a nature-inspired optimization technique based on swarm intelligence, improves this process. It searches for optimal solutions by mimicking the coordinated movement of birds or fish. When integrated with ANN, PSO fine-tunes the network parameters, resulting in faster convergence and improved prediction accuracy.

This hybrid AI framework enables accurate estimation of corrosion rates and structural degradation indices. Such predictive models support proactive maintenance planning, allowing industries to detect potential issues early, reduce unexpected failures, and lower operational costs.

In the future, integrating this approach with real-time sensors and structural health monitoring systems could enable continuous onboard assessment of aircraft components. The fusion of AI, optimization techniques, and material science represents a significant step toward safer, smarter, and more sustainable aerospace systems.



**| Mrs. Haripriya R**  
**Assistant Professor**  
**Dept. of AI&ML**

## Quote of the month



“Sometimes good things fall apart so better things could fall together”

| Marilyn Monroe



## February Notifications

- (i) Lecture Series
- (ii) Extramural Series
- (iii) SEE for students

## BIT MISS

- **Dr. Renukulatha S**, Prof., & Head, Department of CSE(Cyber Security), Dean(Aca) Karnataka, has played a significant academic and research role in the work titled “Speeder-EMDRP: A Scalable Emergency Message Dissemination Protocol for VANETs Using Directional and Time-Slot-Based Broadcasting”, published in the Journal of Dalian University of Technology (Volume 32, Issue 12, 2025).
- **Dr. Ashwini S Shivannavar**, Asso. Prof., Dept. of ECE., published in a Book chapter: Scopus Indexed book chapter titled “Integration of UAVs and Robotics in Infrastructure Inspection and Maintenance”, August 2025, DOI: 10.4018/979-8-3373-5248-0.ch009, In book: Integrating Modern Mathematics and Sensor Technologies in Civil Engineering.
- **Dr. Praveen Kumar Y G, Dr. Ashwini S Shivannavar**, Asso. Prof., Dept. of ECE., published a paper titled “Optimized BIST Architecture for Logic Circuit Testing using Low-Power and Area-Efficient mod-GDI Technique”, IETE Journal of Research, Taylor & Francis Publication, Published Online : (08/12/2025), ISSN: 03772063, e-ISSN: 0974780X, Scopus, 1.877, 0.1080/03772063.2025. 2596932 in a Scopus Indexed Journal (Q3).
- **Dr. Keshavamurthy T G**, Asso. Prof., Dept. of ECE., presented a paper titled “Enhanced Passive Radar DOA Estimation Using Wigner–Ville Distribution and MUSIC Algorithm in Noisy Environments” at 5th IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC-2025) Organized by the Department of Electronics and Telecommunication Engineering, Sri Siddhartha Institute of Technology, Tumakuru in association with IEEE Bangalore Section on 10<sup>th</sup> and 11<sup>th</sup> December 2025 (IEEE Publication).



Sri Siddhartha Institute of Technology, Men Volleyball Team are the winners of SSAHE inter-collegiate Volleyball Tournament organised by Dept. of Physical Education & Sports at SSIT campus on 15<sup>th</sup> December 2026.

## Person of the month

### Kapil Dev (1959)



Kapil Dev Ramlal Nikhanborn on January 6th, 1959 at Chandigarh, India is a former Indian cricketer widely regarded as one of the greatest all-rounders in cricket history. Renowned for leading India to its first Cricket World Cup title in 1983, he transformed Indian cricket with his pace bowling, dynamic batting, and inspirational leadership.

Nicknamed “The Haryana Hurricane,” Dev made his first-class debut for Haryana in 1975 and quickly gained attention for his raw pace and stamina. By 1978, he debuted internationally against Pakistan, bringing a new dimension to India’s bowling attack, which had been dominated by spin.

Dev played 131 Test matches and 225 One-Day Internationals, scoring over 9,000 international runs and taking 687 wickets. His best-known innings was an unbeaten 175 against Zimbabwe in the 1983 World Cup—a performance that rescued India from collapse and ultimately paved the way for their victory at Lord’s Cricket Ground. Under his captaincy, India defeated the mighty West Indies cricket team to win the World Cup, a watershed moment in Indian sports.

Dev retired in 1994 as the then world-record holder for most Test wickets (434). He briefly coached the Indian national team (1999–2000) and later served as chairman of the National Cricket Academy (India). Though his coaching tenure was marred by controversy, he was later cleared of all allegations and reinstated in Indian cricket administration.

Beyond statistics, Kapil Dev’s fearless style and athleticism redefined India’s cricketing identity. He was inducted into the ICC Hall of Fame in 2010 and remains an influential voice in cricket commentary and development. As of 2025, he continues to mentor young athletes and advocate for physical fitness in Indian sport.

Kapil Dev was awarded with Padma Shri (1982), Padma Bhushan (1991), Wisden Indian Cricketer of the Century (2002) and ICC Cricket Hall of Fame (2010).

## Vision and Mission of SSIT and Program Outcomes

**VISION:** To carve technically competent, Confident and socially responsible engineers.

**MISSION:** \* To impart fundamental knowledge of science and technology.

\* To create a conducive ambience for better learning and to bring out creativity in the Students.

\* To instill managerial, entrepreneurial and soft skills.

\* To evolve as trusted destination for quality technical education.

\* To provide positive contribution to meet societal needs.

\* To inculcate a spirit of enquiry, make learning perceptive and rational.

**PO1:** Engineering Knowledge: Apply knowledge of mathematics, natural science computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

**PO2:** Problem Analysis: Identify, formulate, review research literature and analyse complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)

**PO3:** Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

**PO4:** Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).

**PO5:** Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)

**PO6:** The Engineer and The World: Analyse and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5 and WK7).

**PO7:** Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

**PO8:** Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

**PO9:** Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences

**PO10:** Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

**PO11:** Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)



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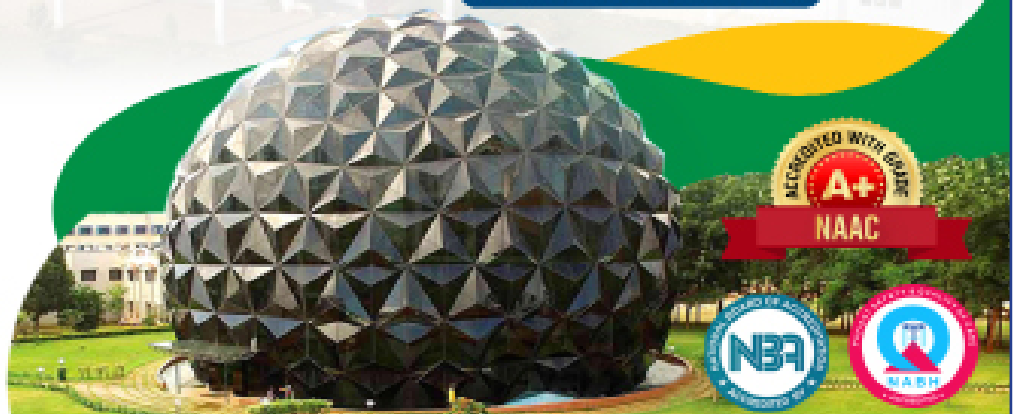
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