



Editorial Board

Dr.M.S. Raviprakasha

Principal, Rector

Dr. Vidyalakshmi K

Chief Editor

Dr.B.T.Muddesh

Publications Incharge

Associate Editors

Dr. H.V. Jayaprakash

Dr. Ravikiran B.S

Mrs. Shaziya Nusrath

Co-ordinator

Members

Dr. Annapurna T.L

Mr. Pradeep M.N

Dr. Puneeth Kumar D.N

Mr. Praveen M

Dr. Srinidhi G.A

Dr. Sushma Prashanth

Mrs. Hema H

Mrs. Shaheena Khanum

Mrs. Shwetha M.K

Dr. Umadevi K.B

Mrs. Nanda K.V

Mrs. Jyothi.C

Mr. Rudresh K.R

Editors Message

There is a saying “Queen always turns pain into power”

Dear Readers, as we step into another exciting month, our college is abuzz with energy and enthusiasm. March has been particularly momentous, marked by significant celebrations, prestigious awards, visits, and the commencement of an enriching lecture series.

We proudly celebrated International Women’s Day, a day of empowerment, reflection, and commitment to a more inclusive future.

We had the esteemed honor of National Bureau of Accreditation (NBA) visit to four Departments at our college. Their visit was not just a testament to our commitment to academic excellence but also an incredible opportunity for students and faculty to engage with accreditation experts which focuses on quality education, institutional growth, and the importance of maintaining high academic standards.

We successfully inaugurated Lecture Series, an initiative aimed at broadening intellectual horizons a beacon of knowledge, bringing experts from diverse fields to share their perspectives and experiences.

We also take immense pride in announcing that several project proposals from our students have been selected by the Karnataka State Council for Science and Technology (KSCST).

Additionally, we are delighted to share that our institution has been recognized with NPTEL Prospects Awards, a testament to our commitment to continuous learning and excellence in online education.

As we move forward, let us carry the spirit of learning, celebration, and inspiration with us.

Focus on FOCUS and be a part of it.

Dr. Vidyalakshmi K, Chief Editor

Publications and Conferences

• **Dr H B Bhaskar** and **Mr Lohith N**, Associate Prof, Dept. of ME Published journal paper “Impact of Water Mass Flow Rate and Refrigerant Inlet Temperature on LMTD and Heat Transfer in Shell-and-Tube Heat Exchangers for Heat Pumps Using “ in International Research Journal of Innovations in Engineering and Technology (IRJIET), Volume 9, Issue 3, pp 175-178, March-2025

• **Mr. Mohan Kumar T P** and **Mrs. Anuradha G R**, Asst. Prof, Dept. of MCA presented a research paper on “A Comparative Analysis of Online Learning Platforms in Indian Higher Education Institutions: Chal-

lenges and Opportunities” in the International Conference on Innovative Paradigm: A Multidisciplinary Approach to Contemporary Crime Issues & Challenges held on 6th and 7th March 2025, organized by Department of Criminology and Criminal Justice, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India, in Collaboration with Indian Society of Criminology – Tirunelveli Branch.

• **Dr. Kavyashree N**, Asst. Prof, Dept. of MCA, successfully presented a paper entitled “An Assessment on: Nourishing Food and their Role in Malnutrition Condition in Pregnancy” in the International Con-

ference on Innovative Paradigm: A Multidisciplinary Approach to Contemporary Crime Issues & Challenges held on 6th and 7th March 2025, organized by Department of Criminology and Criminal Justice, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India, in Collaboration with Indian Society of Criminology – Tirunelveli Branch.

- **Dr. D Ramesh**, HOD, Dept. of MCA, successfully presented a paper entitled “Machine Learning for Diabetes Forecasting and Unified Health Care Service” in the International Conference on Innovative Paradigm: A Multidisciplinary Approach to Contemporary Crime Issues & Challenges held on 6th and 7th March 2025, organized by Department of Criminology and Criminal Justice, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India, in Collaboration with Indian Society of Criminology – Tirunelveli Branch.

- **Mr. Pruthviraj K**, Asst. Prof., and **Dr. Sunil K***, Prof., Dept. of Chemistry published an article entitled “Design, synthesis of a novel Schiff base derivative with fluorescence behavior: A structural and DFT based study” in the journal “Journal of Molecular Structure” Published by Elsevier (IF 4.0, Q1- Indexed in Scopus and WOS) in March 2025.

- **Mr. Pruthviraj K**, Asst. Prof., and **Dr. Sunil K***, Prof., Dept. of Chemistry published an article entitled “Synthesis and Characterization of tert-butyl 3-(((2-hydroxynaphthalen-1-yl)methylene)amino)-4-(4-(trifluoromethyl)phenyl)piperidine-1- carboxylate: A piperidine clubbed Boc protected versatile building block for multi functionalized chemical reactions” in the journal “Journal of Applied Research and Technology” Published by Centro de Ciencias Aplicadas y Desarrollo Tecnológico, Universidad Nacional Autónoma de México Elsevier (IF 0.7, Q3- Indexed in Scopus and WOS) in March 2025.

- **Dr. Praveen Kumar Y G**, Assoc. Prof., Dept. of ECE presented a research paper entitled “Deep Learning Strategies for Precise Detection and Classification of Plant Leaf Diseases” at the International Conference on Big Data and Artificial Intelligence and IoT (ICBDAIT) held in Munnar, India on 1st March, 2025.

- **Mrs. Vidya K V**, Asst. Prof., and **Ms. Nicy Siby**, Assoc. Prof., Dept. of ECE presented a paper titled “Leveraging an Optimized Deep Convolutional Neural Network Architecture for the Automated Diagnosis of Pathological Conditions Through Acoustic Analysis of Human Cough Signatures” at International Conference on Smart Systems for Application in Electrical Sciences

held on 21st and 22nd March-2025 at SIT, Tumkur.

- **Mrs. Ashwini K J** and **Mrs. Nanda K V**, Asst. Prof, Dept. of MCA, successfully presented a paper entitled “Review on Depression Detection Using Machine Learning” in the International Conference on Innovative Paradigm: A Multidisciplinary Approach to Contemporary Crime Issues & Challenges held on 6th and 7th March 2025, organized by Department of Criminology and Criminal Justice, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India, in Collaboration with Indian Society of Criminology – Tirunelveli Branch.

- **Dr. D Ramesh**, HOD, Dept. of MCA, successfully presented a paper entitled “Deep Learning Strategies for Precise Detection and Classification of Plant Leaf Diseases” in the International Conference on Big Data and Artificial Intelligence and IoT (ICBDAIT) held in Munnar, India on 1st March, 2025.

- **Dr. H.V. Jayaprakash***, Assoc., Prof., Dept. of Chemistry and his research group, published an article entitled “Sustainable Defluoridation of Water: Fixed-Bed Adsorption Column Studies Using Zirconium Doped Sunflower Seed Husk as an Adsorbent” in the journal “South Eastern European Journal of Public Health ” (Q4- Indexed in Scopus) in March 2025.

- **Mr. Pruthviraj K**, Asst. Prof., Dept. of Chemistry, presented his work on “Exploring the alpha amylase inhibition potency and anti-counterfeiting properties of newly synthesized bis Schiff Base derivative: Experimental and In silico Approach” carried out under the supervision of Dr. Sunil K, Prof., Dept. of Chemistry in the International conference “ChemConvergence2025: Advancing Chemistry Through Multidisciplinary Innovations” organized by the ‘Department of Chemistry, Madanapalle Institute of Technology & Science, Angalalu-517325, Madanapalle, In association with ‘The Indian Photobiology Society’ Jadavpur University Campus, Kolkata-700032 Online in March 2025.

- **Mr. Manohar R Gombi**, Asst. Prof., Dept. of Maths, published a research paper on “Fractional-order energy equation of a fully wet longitudinal fin with convective –radiative heat exchange through Sumudu transform analysis”, Mechanics of Time-Dependent Materials, March 2025, Vol. 29, Pp: 35 (Springer).

- **Mr. Manjunath Malligawad**, Asst. Prof., Dept. of Maths, published a research paper on “Shadow analysis and light deflection in charged Finslerian Kiselev black holes under spherical accretion” Annals of Physics, March 2025, Vol. 477, Page No.: 170005 (Q1) Impact

factor: 3. (Elsevier)

- **Mrs.Shamsiya Parveen**, Asst. Prof., Dept. of CSE(DS) published the paper titled “The Impact of Digital Pills on Medication Adherence and Healthcare Outcomes: A Comprehensive Review using Abilify My Cite as a Case Study” in International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE, vol 13, Issue 3) in March 2025.

Faculty Achievements

- **Dr. Annapurna H S**, Prof. & Head, Dept. of ISE and **Dr. Suma R**, Prof., Dept. of ISE served as session chair for International Conference on Smart System for Applications in Electrical Sciences 2025 held at SIT, Tumakuru on 21st and 22nd March 2025.

- **Mr. Raghavendra D**, Asst. Prof., Dept. of BME, was invited as a resource person for the 5th day, of five-day Value-added course on “Computer Vision using Python” from 13th to 17th March 2025, organized by AI&ML Department for the students of 6th semester.

- **Dr. Guruprasad S**, Assoc. Prof., from Department of Biomedical Engineering was the conference session chair for IEEE International conference on “Smart Systems applications in Electrical Sciences” organized by SIT, Tumkur on 21st and 22nd March 2025.

- **Mr. Kantharaju**, Asst. prof., Dept. of BME, initiated a startup on “Healthcare for remote areas” through Niramay Technologies at SSAHE, Tumkur.

- **Dr. Renukalatha S**, Dean and Head, Dept. of CSE has served as a Chief Guest in a National workshop on “Unlocking the Future Insights into Machine Learning, Deep Learning, AI models using IIM Tools” held at Tumkur University on 17th March 2025.

- **Dr. Renukalatha S**, Dean and Head, **Dr. Babitha M N**, Assoc. Prof, **Mrs. Noor Fathima K**, **Mrs. Shwetha M K**, Asst. Professors, Dept of CSE have completed Ude-my Course on Outcome Based Education and Academic Quality Assurance in March 2025.

- **Dr. H.V. Jayaprakash***, Assoc., Prof., Dept. of Chemistry and his group, filled Indian innovation patent. On the title “System and method for analyzing physico-chemical parameters and Defluoridation of Groundwater using Nano metal composites” published with Application no:- 202541026334 in March 2025.

- **Dr. H.V. Jayaprakash**, Assoc. Prof., Dept. of Chemistry Chaired technical session in International Conference on “Innovative Paradigms: A Multidisciplinary Approach to Contemporary Crime Issues & Chal-

lenges,” - 2025, organized by Monomania Sundaranar University during 6th & 7th March 2025 at Tirunelveli, Tamil Nadu.

- **Dr. H.V. Jayaprakash**, Assoc. Prof., Dept. of Chemistry, has been selected as Research and Academic Advisory Board Committee Member to STEM UP Pvt. Ltd. 4th Block Jayanagar, Bangalore in March 2025

- **Dr. Vidyalakshmi K (DS)** was Session Chair for International Conference on Smart Systems for Applications in Electrical Sciences-2025 (ICSSES – 2025) held at SIT, Tumakuru on 21st and 22nd March 2025.

- **Dr. Sowjanya G. V.**, Associate Professor, Department of Civil Engineering, was invited as a distinguished speaker for a three-day Faculty Development Program (FDP) on “Sustainability Practices in Infrastructure Development”, organized by Shivajirao S. Jondhle, Polytechnic, Asangaon, Maharashtra, from 10th to 12th March, 2025.

- **Dr. Pradeep**, Associate Professor, Department of Civil Engineering, has reviewed a Book Chapter entitled Manuscript: Nonlinear Behavior of Reinforced Concrete Frames Equipped with and without Steel Plate Shear Wall under Sequence of Real and Artificial Earthquakes. Publisher- BP INTERNATIONAL, Manuscript Number: Ms_BPR_5005.

- **Dr. Usha S**, Associate Professor, Department of Civil Engineering, has received a Certificate of Excellence in Peer-Reviewing in recognition of an outstanding contribution to the quality of the book, in March.

- **Dr Akshay J**, Assistant Professor, Department of Civil Engineering has Delivered a Technical Seminar on the topic “White -Topping - An Alternative Surface Course Layer of the Pavement” at a Value added Course organised by Department of Civil Engineering, Acharya Institute of Technology, Bengaluru on 4th March 2025..

- **Dr. Usha S**, Associate Professor, Department of Civil Engineering, has received a certificate of appreciation for reviewing the article ID 25M-03-016 with title Guidelines to promote an integrated management of international watersheds: a case study in Parana Basin of Regular Issue for Advances in Science, Technology and Engineering Systems Journal.

- **Dr. Chidananda Murthy M V**, Prof., Dept. of ECE, served as International Advisory Member for the 8th International Conference on Multi-Disciplinary Research Studies and Education (ICMDRSE-2025), scheduled on 22nd and 23rd March-2025 held in Kuala Lumpur, Malaysia.

- **Dr. Komala K**, Assoc. Prof., Dept. of ECE, served as a session chair for an IEEE International Conference on Smart Systems for Application in Electrical Sciences held on 21st and 22nd March-2025 at SIT, Tumkur.

- **Dr. Praveen Kumar Y G**, Assoc. Prof., Dept. of ECE served as a session chair for an IEEE International Conference on Smart Systems for Application in Electrical Sciences held on 21st and 22nd March-2025 at SIT, Tumkur.

- **Dr. M. Nagaraja**, Professor, Department of Physics reviewed research papers of reputed SCOPUS indexed journals “Polymer Composites” and “Journal of Taibah University for Science”.

- **Dr Srinidhi G A**, Assoc. Prof., Dept. of CSE(-CY) had participated in Bosch Stake Holders Meet and received a memento for the best performing university on 27th March 2025.

- **Dr Srinidhi G A**, Assoc. Prof., Dept. of CSE(-CY) was one of the judge for project expo in IEEE Samarthya on 29th March 2025.

- **Dr. Praveen Kumar C**, Assoc. Prof., Dept. of EEE has been granted a design patent to “High Gain Antenna for V2X Communication” from Government of India on 26th March 2025.

- **Dr. Ravi Prasad D**, Assoc. Prof., Dept., of EEE has presented a lecture on his research topic “Effect of Particles Contamination on the PD characteristics of 90:10 CO₂ and SF₆ Gas Mixtures” on 14th March 2025 at SSIT Tumkur.

- **Dr. N Pradeep**, Head, Dept. of EEE, Dr. G S Sheshadri, Dept. of EEE and Dr. B S Yogananda, Assoc., Prof., department have served as a session chair for International conference on Smart Systems for Applications in Electrical Sciences-2025 held at SIT, Tumakuru on 21st and 22nd March 2025.



Dr. Komala K, Associate Professor, Dept. of ECE, received outstanding Women Researcher's award in “Imagr Processing: in 10th Venus International Women Award-VIWA 2025 from Venus International Foundation, Chennai held in Hotel Green park, Chennai on 1st March 2025.



Dr Pradeep A R, Associate Professor, Department of Civil Engineering and his final year project students Uma shankar H K, Yashas K S, Sri Ragnanath and Chirag T P participated in Project exhibition VIJNATHAM UTSAV-2025 held on 20th february 2025 at Sri Kshetra Adichunchanagiri and received the appreciation letter



Mr. Praveen Kumar C, Assoc., Prof., Dept. of EEE has presented a talk on “Entrepreneurship mindset and skills” on 10th March 2025 organized by S J M Institute of Technology, Chitradurga.



Dr. Yogananda B S, Assoc. Prof., Dept., of EEE has presented a talk on “Industrial Automation & Control” on 13th March 2025 organized by SJ BGS Polytechnic, Mandya.

Student Achievements

- **Akankshgowda H S, Joice Christina, Kiran S D, Likitha K, Kishore K, Nisruga M S, Kavana Rajiv Nayak and Sonal Kashinath Mullannavr** of 1st Semester MCA students, successfully presented a paper in the International Conference on Innovative Paradigm: A Multidisciplinary Approach to Contemporary Crime Issues & Challenges held on 6th and 7th March 2025, organized by Department of Criminology and Criminal Justice, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India, in Collaboration with Indian Society of Criminology – Tirunelveli Branch.
- **Chandana R** and **Md.Faizan** final-year students, Dept. of ISE and Dept. of ME respectively was invited as a Quiz master to conduct the Technoquiz event as part of Technisium at SIT, Tumakuru, in March 2025.
- **Shreyas D** from 4th B secured 3rd place in technical competition Technika 2025 held at Akshaya Institute of Technology, Tumakuru on 26th March 2025.
- **Pradeep G R**, 7th semester, Dept. of ME participated and secured 1st place in roborace competition Technisium organised by Association of Electrical Science, SIT, Tumkur on 21st and 22nd March 2025
- **Mr Prem Ranjith Verma K**, 4th Sem student got first prize in Techinar on 25th march 2025 and Project expo on 29th March 2025 in IEEE Samarthy event, SSIT.
- **Mr Pavan C** 4th Sem student got first prize in project expo on 25th March 2025 and second prize in Web page design in IEEE Samarthy event, SSIT.



Ms. Smitha, Ms. Vinutha, Ms. Shubha and Ms. Tannushree students of 8th semester, Dept. of EEE have won the Consolation Prize at “VRIDDHEE 2025” a state level project competition held at Vidyavardhka college of engineering, Mysore on 29th March 2025.



Pradeep G R, 7th semester, Dept. of ME participated and secured 1st place in Swift bot: roborace competition Technika 2025- Akshaya Anveshana organised by Akshaya Institute of Technology, Tumkur on 25th and 26th March 2025.



Mr. Jayanth H L, Mr. Raghavendra R and Ms. Keerthana R students of 8th semester Dept. of EEE have won the Consolation Prize at “VRIDDHEE 2025” a state level project competition held at Vidyavardhka college of engineering, Mysore on 29th March 2025.



AMPP student member-**Abhishek K Shetty** and **Muneer Habeeb Khan**, 7th semester students, Dept. of ME for delivering an insightful technical talk on “Awareness on Corrosion” today for ITI students, SSIT campus Tumkur on 21st March 2025

Faculty Participation

- **Dr. Savitha C**, Assoc.Prof., Dept. of AIML, attended One-week FDP on “Block Chain and Web3”, organized by ExcelR, B’lore from 10th -17th March 2025.
- **Dr. Purnima P S**, Assoc. Prof., from Dept.of BME attended a 5-day FDP on “AICTE incorporating Universal Human Values” in March 2025
- **Dr Srinidhi G A**, Assoc. Prof., Mrs Sujatha G S, Asst. Prof., Dept. of CSE(CY) attended Online One Week Advanced FFDP on Empowering Research with High-Performance Computing and GPU Technologies from 17th to 21st March 2025.
- **Dr.Supriya M C, Prof., & Head, Dr. Pushpalatha K R, Dr. Vidyalakshmi K, Assoc. Prof., Mrs. Shamsiya Parveen, Mrs. Navyashree R and Mrs. Asha H R**, Asst. Profs., Dept. of CSE(DS), attended 5 days FDP on “Blockchain and web3”, organized by EXCEL R in collaboration with SSIT CSE(DS) Dept., during 10th to 17th March 2025.
- **Dr Annapoorna T L**, Asst. Prof, Dept. of ME has participated in one week National student and FDP on “Innovation-Driven Entrepreneurship: From AI Enabled research to start-up Launch”, organized by Department of ME ,Ramachandra collage of Engineering, Eluru, Andra Pradesh, on 24th Feb to 1th March 2025.
- **Mrs Ayesha Azeeza**, Asst. Prof., Dept. of CSE(-CY) attended Online Workshop on “AI-Powered Cyber Security: The Future of Digital Defense” on 8th March 2025 by ECLearnix EdTech Private Limited, Coimbatore, Tamil Nadu, India.
- **Mrs Sahana T.S.**, Asst.Prof., Department of Civil Engineering, and **Mrs Supriya C.B.**, Assistant Professor, Department of Civil Engineering have participated in the FDP on 4R’s -”Repair, Restoration, Rehabilitation and Retrofitting of Structures“ organized by the Department of Civil Engg., Nitte Meenakshi Institute of Technology, Bengaluru, during 3rd- 8th of March 2025.
- **Dr.Suma R, Prof., Mrs.Ranjini H, Mrs.Vani B V**, Asst. Prof., Dept. of ISE participated in FDP on Blockchain and Web3 organized by Department of CSE, SSIT, Tumkur, on 10th to 17th March 2025
- **Mrs. Sandya V**, Asst. Prof., and **Mr. Madhu O**, Asst. Prof., Dept. of Chemistry, participated in the National Level Online Workshop on “Application of Artificial Intelligence in PhD research and Scholarly writing” organized by the Institute of Scholarly Research and Training, Chennai on 22nd March-2025.
- **Dr. Chidananda Murthy M V**, Prof., Dept. of ECE, Director IQAC, SAHE has participated in the “National level Awareness Program on Institutional Development Plan (IDP) for Higher education Institutions” held on 6th March 2025 (OL), jointly conducted by Telangana Council of Higher Education (TGCHE) and Institute for Academic Excellence (IAE), Hyderabad.
- **Mrs. Shaheena khanum**, Asst., Prof., Dept. of EEE has participated in the workshop(OL) on Artificial intelligence and machine learning organized on 1st march 2025 by ECLearnix EdTech Pvt. Ltd. Coimbatore.
- **Mrs. Shaheena Khanum**, Asst., Prof., Dept. of EEE has participated in the online workshop on “AI-powered Cyber Security: The Future of Digital Défense” organized on 8th march 2025 by ECLearnix EdTech Private Limited, Coimbatore, Tamil Nadu, India.
- **Dr. Praveen Kumar Y G** Assoc. Prof., and Mr. Praveen M, Asst. Prof., had attended a 5 Days FDP on “A learning on a complete life cycle of VLSI chip making, organized by Dayanand Sagar College of Engineering, in association with IMAPS INDIA Bengaluru from 10th to 14th March 2025.
- **Mr. Sriramu D S**, Asst. Prof.,Dept. of ECE participated & completed AICTE Training & Learning(ATAL) Academy faculty development program on “Antennas & RF circuits for Radio frequency Energy harvesting applications for energising Low power devices” at Tripura University from 24th February to 1st March 2025.
- **Mrs. Shaheena khanum**, Asst. Prof., Dept., of EEE has participated in the workshop(OL) on “Smart Agentic AI: The Future of Automation” organized on 15th March 2025 by ECLearnix EdTech Private Limited, Coimbatore and online STTP on “Transformative AI Tools for Research Writing: Comprehensive Techniques and Best Practices” organized on 17th -22nd March 2025 by Kishori Raman (PG) College, Mathura, Uttar Pradesh.
- **Mr. Praveen Kumar C**, Assoc., Prof., Dept. of EEE has participated in one week Faculty Development Program on “Energy Management System in Sustainable Resources” from 17th to 22nd March 2025 organized by Dept., of EEE of Bangalore Institute of Technology, Bengaluru.
- **Mrs. Shaheena khanum**, Asst. Prof.,**Dr. Ravi Prasad D**, Dr. S K Girish, Dr. N Pradeep, Assoc. Prof., and Dr. G S Sheshadri Prof., Dept. of EEE have committed to water conservation through the “Jalave Jeeva” campaign on 26th March 2025.

Student Participation

- K S Varshini participated in Hobby Project, Organized at SIT College on 21st and 22nd March 2025.
- Mr. Hemanth D N, student of EEE department has committed to water conservation through the “Jalave Jeeva” campaign on 26th March 2025.

Department Activities

- Online “SSIT-Preplacement Training Program” was organized in collaboration with MinMatrix by the Department of BME for one day on 22nd March 2025.
- Dept. of CSE Organized “Intent Club on the Spot Project Development” event on March 15th, 2025 headed by the Faculty Coordinator Mr. Bharath, Asst. Prof, Dept of CSE.
- Dept. of CSE Organized ” Intent Club on HTML and CSS “event on March 24th-2025 headed by the Faculty Coordinator Mr. Bharath,Asst. Prof,Dept of CSE.



Dept. of AI&ML organized a Technical Talk (on-line) on “Generative AI”, by Tirumal M Desai from MindMatrix, Bengaluru on 26th March 2025.



Dept. of AI&ML organized 5 days Value Added Course on “Computer Vision using Python” by MeVi Technologies, Bengaluru for 6th semester AI&ML students from 13th to 17thMarch 2025.



The Department of Electronics and Communication Engineering (ECE) organized a technical talk on “Career Guidance on Future Embedded and Automotive Systems” for pre-final year students on March 11th, 2025. A resource person from CRANES VARSITY Pvt. Ltd. delivered the talk, the session aimed to provide insights into emerging opportunities in the embedded systems and automotive industry, highlighting key tech-

Faculty Development Program on
BLOCK CHAIN AND WEB3
 in Collaboration with
 Sri Siddhartha Institute Of Technology
 (Karnataka)
 Computer Science and Engineering
 CSE (Data Science)
 Get Certificate Of Participation for FREE
10th-17th March'25
 03:00 PM to 05:00 PM
 7 hours per day for 5 days. Mon to Fri
 SCAN ME! [QR Code]
 +91 96049 57287 | edil@excelr.com | www.excelr.com

Department of CSE (Data Science) organized FDP on “Blockchain and web3” in collaboration with EXCELR during 10th to 17th March 2025.



Subhrajyote Bhattacharya, an esteemed alumnus of the 2013 batch, visited the ECE department to deliver a technical talk on 5G and 6G communication for 6th-semester students on March 7th, 2025.



Bhoomika P, an alumna of the 2019 batch, visited the Department of Electronics and Communication Engineering (ECE) on March 14th, 2025, to deliver an insightful talk on “Preparation for an Engineering Career” for sixth-semester students. During her session, she shared valuable guidance on skill development, industry expecta-



Sanjay HS alumina of 2019 batch, currently working a network engineer, CISCO Bangalore had addressed final year students today on “Usage of AI in the Transformation of Student Life to Professional Life and Experiences” on 22nd March 2025.

The visit to various industries by the professors, Dept. of EEE was carried on 21st March 2025 with reference to the Internship opportunities and Placements for our students.

College Events

The even semester classes for all branches and all years of UG started on 3rd March 2025 and the results of the odd semesters were announced in the first week of March 2025.



Sri Siddhartha Academy of Higher Education-Tumakuru Swayam NPTEL Local Chapter (LCID:6211) has been honoured with “Prospects Awards” and is tagged as “Top 100 Active Local Chapter” by Swayam NPTEL, organised by IIT Kharagpur and Dr. Praveen Kumar C, Associate Professor, Dept. of EEE is the SPOC and NPTEL’s brand ambassador for our esteemed institutions. This award is a proud moment for the institution and a testament to its commitment to quality online learning.



“Lecture series on Emerging Research Topics” season-II is being started and is organised on Fridays at SSIT. First lecture series was given by Dr. Raviprasad D, Associate Professor, Dept. of EEE, on 14th March 2025 with the title “Effect of particle contamination on the PD Characteristics of 90:10 CO₂ and SF₆ gas mixtures”. Second Lecture series was given by Dr. Keshava Murthy TG, Associate Professor, Dept. of ECE, on 23rd March 2025 with the title “Processing of ECG signal for person authentication”.



Dr. HMG Extra memorial lecture on “Life skills, professional and social ethics” was organized by IQAC-SSIT on 12th March 2025 and Sri Japananda Swamiji from Ramakrishna Seva Samithi, Pavagada was the resource person.



Samarthya-2025 was organised on 29th March 2025 under SSIT-IEEE-SB. Dr. Veda Sandepa Nagaraja, Program Manager-EUProgramme Office, Senior scientist, Tyndall National Institute, Ireland was the chief guest. Dr. K B Lingegowda, Vice Chancellor, SSAHE, Dr. Ashok Mehta Registrar, SSAHE and Dr. Renukalatha S , Prof., & Head, Dept. of CSE, Dean(Aca) were the guest of honour. The function was presided by Dr.M S Raviprakasha, Principal, SSIT. Dr.M.C Chandrashekhara, Prof., & Head, Dept. of ECE, Branch Counsellor, IEEE SSIT-SB, Dr. Savitha D Torvi, Prof., & Head, Dept. of ETE, Branch Mentor, IEEE-SB, Dr. Sharada Gupta M N, Asso. Prof., Dept. of ECE, Faculty Advisor, IEEE-SSIT-WIE AG & Mr.Yogesh M, Asst. Prof., Dept., of ETE, Faculty Advisor, IEEE-SSIT_SC were present in the event.

• 48th series Student Project Program (SSP)-2025 of Karnataka State Council for Science and Technology (KSCST) has selected 28 project proposals from SSIT, which has brought a crown to academic excellence of the Institution and Dr. Batluri Tilak Chandra, Associate Professor, Dept. of ME is the coordinator for the same Yoga and pranayama classes got started at SSIT in collaboration with SRAY-Yoga (from Monday to Friday) on 15th March 2025.

Placement News



International woman's day was organized and celebrated on 15th March 2025 by woman empowerment committee of IQAC-SSIT, and Dr. Anitha Devi M D, Associate Professor, Dept. of ECE was the organising Secretary. Smt. Uma Reddy, Senior Vice president FKCCI, MD, Hitech Magnetics and Electronics Ltd., Jalahalli, Bangalore was the chief guest of the event. Dr. K B Lingegowda, Vice Chancellor, SSAHE, Dr. Ashok Mehta Registrar, SSAHE were the guest of honour. The function was presided by Dr. M S Raviprakash, Principal, SSIT.

Department of Training and Placement had arranged for an industrial visit to System Consultant Information Indis(SCII)- Tumakuru in the month of March 2025, for the pre-final year students of all the branches of SSIT to gain industry exposure and practical insights.

The campus placement and internship recruitment drives for March 2025 concluded successfully with several students securing opportunities in reputed companies. A total of 44 students were selected across various organizations, marking a significant achievement for the placement cell. DN Solutions (India) Pvt. Ltd. selected 8 students, providing them with excellent career opportunities. Sanria engineering conducted an internship drive and selected 3 students. Placemantra Private Limited recruited the highest number of students, selecting 20 candidates.

MaxEye Technologies Private Ltd. offered placement to 1 student, while Print Jet Solutions LLP selected 3 students. Additionally, Tap Academy successfully recruited 9 students. These selections reflect the students hard work and the institution commitment to ensuring quality placements. Apart from the completed recruitment drives, the placement process is still ongoing for several esteemed companies. Registration links have been shared with students for upcoming drives from companies such as KodNest, i-exceed technology, Thought Focus, PRDC, Coditas Solutions LLP (Pune), IBM, Accord212 HR Solutions Pvt Ltd, REVATURE, TCS, Bosch, and Franciscan Solutions Pvt. Ltd.

These organizations offer promising career opportunities in various domains, and the placement cell is dedicated to facilitating successful recruitments. The institution remains committed to providing its students with the best employment opportunities and continues to work towards strengthening corporate relationships. The successful placements in March 2025 demonstrate the effectiveness of the training and guidance provided to students, ensuring a bright future for all those who have been selected and those who are yet to participate in the ongoing recruitment processes.

Sports



SSIT Inter-branch THROW BALL(WOMEN) Tournament-2025 was held on 18th ad 19th March 2025. Teams from various branches had enrolled and participated and there was a very tough and interesting matches between the teams. Dept. of ISE and AI&ML reached the finals and Dept. of ISE were the winners and Dept. of AI&ML were the runners of the tournament.

NCC

NCC cdt's Thushar from Dept.of Mechanical and Pramod from Dept. of E&C – 2nd Semester got selected for IDSSC (Inter Directorate Sports Shooting Championship). at Group Head quarter, Army Service Center, Banas -Vadi, Bangalore.

Person of the month

Usha Mehta

(1920– 2000)

MUsha Mehta, born on 25th March, 1920, in Saras village near Surat, Gujarat, was a remarkable freedom fighter, best known for her courageous role in the Quit India Movement. Usha was deeply influenced by Gandhian principles from an early age. At just eight years old, she participated in her first protest against the Simon Commission in 1928, signaling the start of her lifelong dedication to India's freedom struggle. Usha completed her education at Wilson College, Bombay, where she pursued a degree in law. During her college years, she became an ardent follower of Mahatma Gandhi and his principles of non-violence and civil disobedience, which shaped her political ideology.

Her most notable contribution to the independence movement was the establishment of the Congress Radio, an underground station that played a critical role in spreading the message of freedom and resistance. When the Quit India Movement was launched on August 8, 1942, by the Indian National Congress, Usha saw the need for a platform that could bypass the British-controlled media. The Congress Radio, operating on the 7.08 MHz shortwave band, broadcasted uncensored news, patriotic songs, and messages from prominent leaders such as Gandhi, Nehru, and Patel. The station became a vital tool for mobilizing public sentiment and boosting the morale of revolutionaries. Usha, along with Vithalbhai Jhaveri, Chandrakant Jhaveri, and other associates, operated the radio secretly from different locations in Mumbai to avoid British detection. The station broadcast slogans like "Do or Die" and inspired people to fight for their freedom.

However, their activities were soon exposed. On November 12, 1942, Usha Mehta and her team were arrested. She was charged with sedition and spreading anti-British propaganda. Despite enduring harsh interrogations and imprisonment, she refused to betray her fellow revolutionaries. Usha was imprisoned in Yerawada Central Jail in Pune for four years, where she faced immense physical and mental hardships but remained resolute. Her refusal to reveal the identities of her co-conspirators made her a symbol of courage and defiance. She was eventually released in 1946, just before India gained independence.

After independence, Usha completed her law de-



gree but chose a different path. Instead of pursuing a career in law, she dedicated herself to academia and Gandhian activism. She became a professor of political science at the University of Bombay, where she taught and inspired several generations of students. Throughout her life, she remained a committed advocate of Gandhian philosophy, promoting non-violence, simplicity, and ethical governance. Usha was actively involved in the Gandhi Smarak Nidhi, an organization dedicated to preserving Gandhi's legacy. She frequently delivered lectures on freedom, democracy, and the importance of truth and non-violence, emphasizing the relevance of Gandhian values in post-independence India.

Her unwavering commitment to public service earned her India's second-highest civilian honor, the Padma Vibhushan, in 1998. Despite her fame and recognition, Usha led a simple and austere life, continuing to work tirelessly for social justice and the welfare of the underprivileged. She remained critical of corruption in politics and stood for ethical governance. Usha's story became a part of Indian folklore, inspiring future generations. Several books, documentaries, and educational programs have been created to honor her legacy. Her life symbolizes resilience, patriotism, and the indomitable spirit of India's freedom fighters.

Usha Mehta passed away on August 11, 2000, at the age of 80. Her death marked the end of an era, but her contributions continue to inspire countless Indians. She is remembered not only as the voice of the Congress Radio but also as a beacon of integrity, resistance, and unwavering dedication to the cause of freedom. Her legacy lives on in the hearts of those who cherish the values of courage, selflessness, and national pride.

Quote of the month



“ Genius is one percent inspiration
and ninety-nine percent
perspiration. ”

| **Thomas Edison**



Technical Article

Insulated Gate Bipolar Transistor (IGBT): Advancements and Applications

Introduction

The Insulated Gate Bipolar Transistor (IGBT) is a key semiconductor device in modern power electronics, combining the high voltage handling capabilities of bipolar junction transistors (BJTs) with the fast-switching characteristics of metal-oxide-semiconductor field-effect transistors (MOSFETs). IGBTs are widely used in applications such as electric vehicles (EVs), renewable energy systems, industrial motor drives, and power inverters.

Structure and Working Principle

IGBTs are three-terminal devices consisting of a gate, collector, and emitter. Their structure integrates a MOSFET at the input and a BJT at the output, resulting in low conduction losses and high efficiency.

The working principle involves:

- **Turn-On Process:** When a positive voltage is applied to the gate with respect to the emitter, the device enters conduction mode, allowing current flow from the collector to the emitter.
- **Turn-Off Process:** When the gate voltage is removed, the current stops flowing, turning off the device.

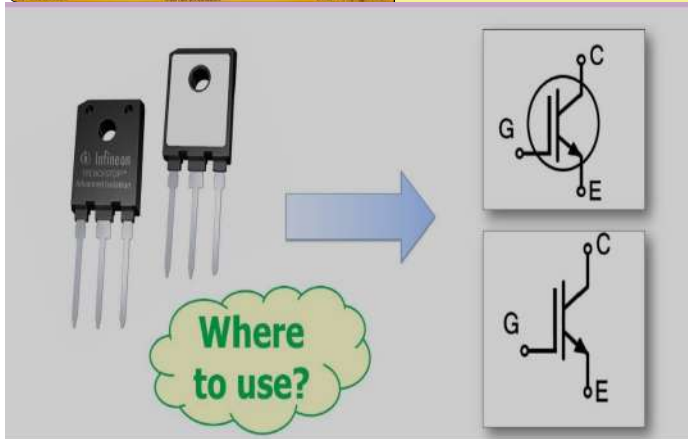
Key Features of IGBTs

- **High Voltage Capability:** IGBTs can handle voltages ranging from hundreds to thousands of volts, making them ideal for power electronics applications.
- **Low Conduction Losses:** Due to their bipolar nature, IGBTs have lower conduction losses compared to MOSFETs, improving efficiency in high-power applications.
- **Fast Switching Speeds:** While not as fast as MOSFETs, modern IGBTs offer improved switching characteristics, balancing efficiency and power handling.
- **Thermal Stability:** IGBTs exhibit better thermal performance, allowing them to operate under high-power conditions with effective heat dissipation techniques.

Recent Developments in IGBT Technology

1. 8th Generation IGBTs

The latest advancements in IGBT technology focus on improving efficiency and reducing power losses. The introduction of 8th-generation IGBTs has enhanced switching performance while minimizing conduction and switching losses, particularly bene-



ficial in high-power inverters and industrial applications.

2. Silicon Carbide (SiC) vs. Traditional Silicon IGBTs

The development of SiC-based IGBTs has led to improved efficiency and higher power density. Compared to traditional silicon-based IGBTs, SiC-based devices offer:

- Lower switching losses
- Higher thermal conductivity
- Faster switching speeds

Although SiC devices are more expensive, their efficiency gains make them a preferred choice for high-performance power electronics.

3. Enhanced Packaging Technologies

Innovations in packaging, such as LV100 modules, have improved thermal management, leading to better reliability and operational longevity in applications like wind power converters and EVs.

Applications of IGBTs

1. Electric Vehicles (EVs)

IGBTs play a critical role in EV powertrains, controlling motor drives and enabling efficient energy conversion from the battery to the wheels. Their efficiency directly impacts vehicle range and performance.

2. Renewable Energy Systems

IGBTs are widely used in solar and wind power inverters, converting DC power from photovoltaic panels and wind turbines into AC power for grid distribution.

3. Industrial Motor Drives

Modern industrial automation relies on IGBT-based motor drives, which provide precise speed and torque control in applications like robotics, HVAC systems, and conveyor belts.

4. High-Voltage DC (HVDC) Transmission

IGBTs are integral to HVDC transmission systems, allowing efficient power transmission over long distances with minimal losses.

Future Trends

The future of IGBT technology is driven by:

- Wider adoption of SiC and GaN materials
- Integration of AI-driven smart power electronics for optimized efficiency
- Miniaturization and modular packaging for compact power systems

Conclusion

IGBTs continue to play a crucial role in power electronics, offering high efficiency and reliability in high-voltage applications. With ongoing advancements in materials, packaging, and AI-driven optimizations, IGBTs are set to become even more efficient, paving the way for innovations in renewable energy, transportation, and industrial automation.



Mrs. Shaheen Khanum
 Assistant Professor,
 Dept. of EEE

April Notification

- Internal Academic and Administrative Audit
- Industrial visits
- Value added Course
- Lecture Series on Emerging Topics
- Dr. HMG Extra memorial lecture
- CIE-

PHOTO GALLERY





SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION

SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY



A Deemed to be University, Accredited 'A+' Grade by NAAC
 Maraluru, Tumakuru - 572 105, Karnataka, INDIA.



KCET CODE
E017

COMED-K
E135

PGCET MCA
C500

PGCET M.Tech
T992

PGCET MBA
B071

ADMISSIONS OPEN 2025-26



UG Programs

- Artificial Intelligence and Machine Learning
- Bio Medical Engineering
- Civil Engineering
- Computer Science & Engineering
- Computer Science & Engineering (Data Science)
- Computer Science & Engineering (Cyber Security)
- Robotics and Artificial Intelligence
- Information Science & Engineering
- Electronics & Communication Engineering
- Electronics & Telecommunication Engineering
- Electrical & Electronics Engineering
- Mechanical Engineering

PG Programs

- Computer Aided Design of Structures
- Computer Application in Industrial Drives
- Computer Science and Engineering
- Digital Electronics
- Product Design and Manufacturing
- Thermal Power Engineering
- VLSI and Embedded Systems
- **Masters in Computer Applications (MCA)**
- **Master of Business Administration (MBA)**

Media Programs

SRI SIDDHARTHA CENTRE FOR MEDIA STUDIES

- M.A in Journalism & Mass Communication
- M.Sc Electronic Media

Ph.D Programs

All Branches (Full/Part Time)



Dr. G. Parameshwara
 Honorable Chancellor, SSAHE

For more details contact :

9740531449, 9606861449

9740551449, 9741191449

Website : ssit.edu.in