REDEEM

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EMPOWERING INNOVATION, CONNECTING FUTURES!

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

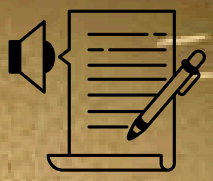
Vintage Edition

SSN COLLEGE OF ENGINEERING

Instincts'25
MARCH 13, 14, 15
TIMELESS TALES

CHAPTERS

NOTE: Click Title to Navigate



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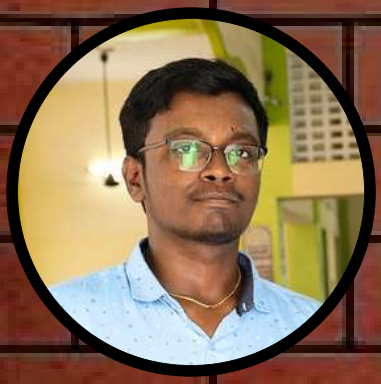

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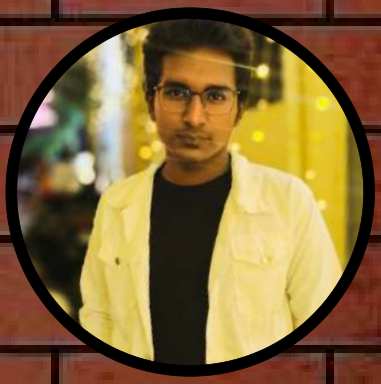

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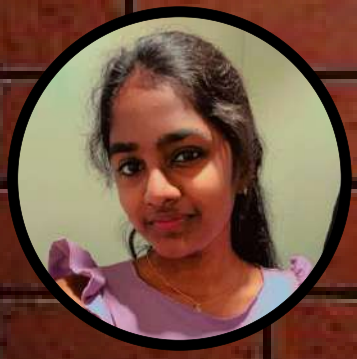

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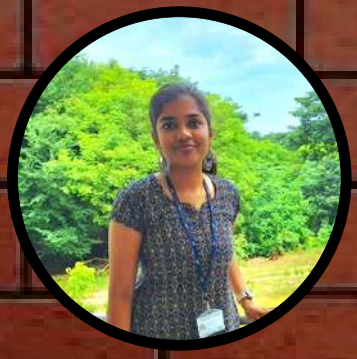

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FROM THE HOD DESK

A message from the Head of the Department

I am delighted to present the April 2025 edition of **REDEEEM**, which captures the vibrant pulse of our department through the last quarter. This edition brings to light the dynamic activities, student achievements, and impactful alumni engagements that continue to define and enrich our academic community.

It was truly an eventful quarter, showcasing a diverse array of initiatives—from international and national conferences to expert-led workshops and guest lectures. We are also proud to celebrate the dedicated service of Dr. Murugesan, who was honoured with “Nanneri” teacher award.

This edition also marks the debut contribution of our current editorial team, who have beautifully captured placement experiences, sporting achievements, and a vibrant campus roundup. Kudos to the team for their dedication and creativity in bringing this edition to life!

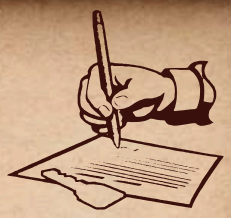
As we turn the page to a new chapter, we look forward to upcoming editions that promise even more inspiring stories, achievements, and initiatives.

"As we look back on milestones, we also look ahead—with curiosity, courage, and commitment to grow."

Dr. Rajini V,
Head of the Department, EEE

PREFACE

A heartfelt message from the Editorial Board



We live in an era where the mind is under siege like never before in history. People have been so bombarded with distractions, comparisons, and artificial identities. Social media, with endless stream of opinions and distractions, has taken the ego and put it on steroids, constantly reinforcing the idea that you are your thoughts, your opinions, your image. The modern world has been designed to keep people asleep, the attention economy thrives on keeping people trapped in thought loops constantly worrying, comparing and seeking external validation. Every algorithm is designed to hijack the mind's addiction to identity because the longer you stay stuck in your thoughts, the more predictable you become. This is why true awakening is becoming rarer even as more people claim to be on its spiritual journey. The modern world gives people just enough spiritual entertainment to make them feel like they're growing without ever requiring them to actually wake up, and that's the real danger because the more people buy into the illusion of identity, the more they suffer anxiety depression overthinking. It all comes back to the same root cause - the belief that the voice in your head is who you are. The same false identity that causes suffering in an individual is what fuels global dysfunction, the wars, the political divides, the endless conflicts, all of it stems from people believing their thoughts are real, that their identity must be defended, that their opinions define them.

People love talking about ego death like it's some mystical experience, but real ego death is far more unsettling, it’s not about feeling different; it's about realizing that the self you've spent your whole life protecting was never real. When you look closely enough that the thing you call yourself is just a stream of mental activity, it's nothing more than words, memories, and mental images; but because it's been running since childhood, highly preconditioned, it feels real and solid.

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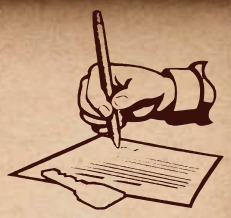

It is a function of your brain, much like your heartbeat and digestion. You don't consciously pump your heart or process your food.

It just happens, similarly, that your thoughts arise on their own, automatically, shaped by past experiences, preconditioning and deep-rooted Sanskar and just as you wouldn't define yourself by your heartbeat, you are not defined by your thoughts as they are not you. They are simply mental habits and not a reflection of your true self. You need not drag yourself to the highs and lows of your thoughts and face the consequences. The moment you see through this illusion and realize that you are not your thoughts, everything changes in a dramatic way, making it impossible to take your own thoughts seriously ever again, understanding the fact that passing clouds never rain. Awakening isn't an experience; it's the absence of the one who is trying to experience it. It is that the identity that was suffering simply collapsed and that collapse wasn't something we did. It was something that happened when there was nothing left to hold on to.

Neuroscience is proving what ancient traditions have been saying all along: the human mind is trapped in an illusion, and awakening is what happens when that illusion is broken at the core. Awakening was a radical shift in identity, a detachment from thought as the centre of his existence, and science is now catching up to explain what might have happened inside his brain. One of the biggest revelations in modern Neuroscience is the role of the Default Mode Network (DMN). This is the part of the brain responsible for self-referential thinking the endless mental chatter that keeps us locked in our sense of identity. Brain scans show that this network shuts down under the meditative state. This means that the constant narration of I, me, my story is literally a neurological process and when it goes silent, what remains is pure awareness and show

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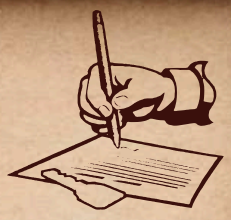

permanent structural changes in the brain, specifically, a thinning of the parietal lobe, which is linked to the sense of ego and separation. Awakening is not just a philosophy, it's a rewiring of the brain itself. The implications of this are massive. It means that experience wasn't just some random event, it was a complete neurological reset.

A collapse of the very mechanism that generates personal suffering; a complete destruction of deep routed addiction of mind. The real work of awakening happens in daily life in the moments where you least expect it. It's when you're stuck in traffic and the frustration rises. Do you get lost in it or do you see it for what it is? It's when someone insults you and the ego flares up. Do you react or do you recognize the illusion? It's when boredom, restlessness, or loneliness appear: Do you escape into distractions or do you allow yourself to be fully present?

Real awakening is how you meet this exact moment right now, when you just stop identifying with your own thoughts. That is something that can happen at any moment. Even after knowing this, most people still struggle because the mind is designed to resist awakening. It doesn't want to be seen through, it thrives on control, identification and survival. Because of the power of preconditioning in early ages, awakening is so near yet so far, and it’s a mirage. Elon Musk’s Neuralink research may simplify the awakening process in future by finding ways to switch off your default mode, leading to choiceless awareness.

FACULTY HIGHLIGHTS

Success through knowledge

Nanneri Aasiriyar Award-2024

Madurai Ilakkiya Mandram in association with Sri Arunachala Educational Trust and Y.M.C.A Madras presented NANNERI AASIRIYAR Award-2024 (நன்னெறி ஆசிரியர் விருது-2024) to **Dr. K. Murugesan**, Associate Professor/EEE, Sri Sivasubramaniya Nadar College of Engineering on 28-02-2025 at Y.M.C.A hall, Chennai.

This Award function was presided by Thiru. S. Arunachalam, President, Sri Arunachala Educational trust, Madurai, and Thiru. Avani Madasami, founder of Madurai Ilakkiya Mandram and award was presented by Thiru. V. Nandha Kumar, I.R.S. Director, Indian Income Tax department. Totally 12 professors from different colleges and 70 teachers from schools received the Nanneri Aasiriyar award-2024, in which **Dr. K. Murugesan** was the only faculty who received this award in Engineering College category.

FACULTY HIGHLIGHTS

Success through knowledge

Appreciation for Project Wall 2025

Dr. Thiyagarajan, ASP from EEE department, received the Appreciation Certificate for the volunteering activity in Project Wall 2025 organized by the Chengalpattu District Administration on February 10, 2025. This certificate was presented by Thiru. S Arunraj IAS, District Collector of Chengalpattu District on the occasion of 6th Chengalpattu Book Fair on February 28, 2025.

FACULTY HIGHLIGHTS

Success through knowledge

Best Paper Award

Dr. Sajjan Kumar and his students **Harini Sree S**, **Kaviasri J**, **Khavipriya D** received the best paper award for their paper titled **"Comparative Analysis of Optimal DG Placement and Different Demand Side Load Management Strategies on Radial Distribution Network"** in the International Conference on Smart Technology for Emerging Problems (STEP) 2k25 organized by Gargi Memorial Institute of Technology, Kolkata to foster global collaboration and innovation.

FACULTY HIGHLIGHTS

Success through knowledge

1.External recognition

Dr.R.Seyezhai delivered a Guest Lecture on Product Development & TRL in the Workshop on **Process of Innovation Development & Technology Readiness Level (TRL) and Commercialization of Lab Technologies,** organized by SSN-IIC and department of EEE for quarter-II activity of IIC on 24/01/2025.

Dr.K.Usha acted as Session Chair in 2024 IEEE 11th **Power India International Conference (PIICON),** organized by Malaviya National Institute of Technology, Jaipur on 10/12/2024.

Dr.R.Seyezhai along with IIM Calcutta team mentored the TN state officials in **Empowering Change makers: Capacity Enhancement workshop on Entrepreneurship Development** at State Institute of Rural Development & Panchayat Raj (SIRD&PR) Department, Maraimalai-nagar, TN, organized by IIM Calcutta Innovation Park on 12/02/2025.

Dr.R.Seyezhai delivered the inaugural address in the Faculty Development Program on **Transforming Renewable Energy Systems for a Sustainable Future,** organized by the Department of Electrical and Electronics Engineering, Dayananda Sagar College of Engineering, Bengaluru on 17/02/2025.

Dr.R.Seyezhai delivered a key note address on **DC-DC Converters for Renewable Energy Systems** & hands-on -training session on **PSIM,** organized by Department of Electrical and Electronics Engineering, Dayananda Sagar College of Engineering, Bengaluru on 17/02/2025.

Dr.R.Seyezhai was one of the **Jury** members for the **Buildathon - Envision 2025,** organized by Department of Information Technology, SSN College of Engineering under IEEE-CS on 20/02/2025 .

Dr.R.Seyezhai delivered a Guest Lecture on **Solution Thinking Using Lean Canvas & SCAMPER,** organized by Plant Lipids Start-up Challenge 2025, SSNiFound on 27/02/2025.

Dr.R.Ramaprabha acted as Jury for **VORTEX Hackathon 2025**, conducted by SSN-IEEE Student Branch on 24/02/2025.

Dr.R.Ramaprabha attended Department Advisory Board (DAB) meeting, Department of EEE, Sri Sairam Engineering College in the capacity of **Academic Expert** in online mode on 17/02/2025.

Dr.M.Balaji delivered a Guest Lecture on **Smart Mobility Solutions: Enhancing Electric Vehicle Performance with AI** organized by Builders Engineering College, Tirupur, Tamilnadu on 08/02/2025.

FACULTY HIGHLIGHTS

Success through knowledge

Dr.K.Murugesan received the **best teacher (Nanneri Asiriyar) Award** presented by Madurai Elakkiya Mandram, Sri Arunachala educational trust and YMCA Madras on 28/02/2025.

Dr.R.Seyezhai mentored the state officials for preparing the business plan in the **2nd Boot Camp of the TNSRLM Capacity Enhancement Workshop** held at Maraimalai Nagar, organized by IIM Kolkata Innovation Park on 03/03/2025.

Dr.M.Balaji delivered a Guest Lecture on **Design of Electric Motor for EV application,** organized by Jerusalem College of Engineering, Chennai on 04/03/2025.

Dr.Sajjan Kumar delivered a Guest Lecture on **Optimal System Design using Multi-objective Optimization,** organized by Department of Power Engineering, Jadavpur University, Kolkata on 24/03/2025.

Dr.Sajjan Kumar acted as a **Session Chair in 1st International Conference on Smart Technology for Emerging Problems (STEP 2025)**, organized by Gargi Memorial Institute of Technology, Kolkata, West Bengal during March 21-22, 2025.

2. Research Publication

Daphin Lilda S, **Jayaparvathy R**, **"Effective cardiac disease classification using FS-XGB and GWO approach"**, Medical Engineering and Physics Journal, December 2024. DOI: https://doi.org/10.1016/j.medengphy.2024.104239. Impact factor 2.1, indexed in WOS/TR/SD.

Daphin Lilda S, **Jayaparvathy R**, **"Enhancing cardiovascular disease classification in ECG spectrograms by using multi-branch CNN"**, Computers in Biology and Medicine, February 2025, pp 45675. DOI https://doi.org/10.1016/j.compbiomed. 2025.109737, Impact factor 7, indexed in WOS/TR/SD.

S.Devi, R.Seyezhai, **"Two Switched Impedance Source Network Inverter Simulation and Implementation for Enhanced PV System Performance"** , Lecture Notes in Electrical Engineering, Springer January 2025, Volume 1240, pp 45672, ISSN 978-981-97-6090-9. DOI: https://doi.org/10.100-7/978-981-97-6091-6_17, Impact factor 0.15, indexed in Scopus.

M. Karthika, **M. Balaji**, **E. Fantin Irudaya Raj**, **M. Appadurai** **"Detailed Investigation on Effect of Laminating Materials in Electromagnetic and Vibration Characteristics of 8/10 E-core Hybrid Excitation Reluctance Motor for Electromotive Application"**

FACULTY HIGHLIGHTS

Success through knowledge

Journal of Vibration Engineering & Technologies, January 2025, Volume 13, ISSN 2523-3920, DOI: https://doi.org/10.1007/s42417-024-01570-2, Impact factor 0.46, indexed in WOS/TR/SD.

Ramya M, **Nagarajan K K**, **"Heavy-ion Radiation Strikes on LDD Implanted RingFET using 3D Numerical Device Simulations"**, Journal of Scientific & Industrial Research, January 2025, Volume 84, pp 107-114, ISSN 0022-4456, DOI: https://doi.org/10.56042/jsir.v84i1.7272, Impact factor 0.7, indexed in Scopus.

A. Sowmiya, **Kavitha M**, **K.Usha**, **Vani H**, **"Fintech Disruptors: The Rise of Neobanks with AI Integration Transforming Customer Banking Experiences"**, African Journal of Biological Sciences, June 2024, Volume 6, pp 2170, ISSN 2663-2187, DOI https://doi.org/10.3347-2/AFJBS.6.6.2024.2169-2177, indexed in Scopus.

F. Max Savio, **S. Vinson Joshua, K. Usha, Muhammad Faheem**, **"Design of a Solar-Wind Hybrid Renewable Energy System for Power Quality Enhancement: A Case Study of 2.5MW Real Time Domestic Grid"**, Engineering Reports, January 2025, Volume 7, pp 45675, ISSN 2577-8196, DOI: https://doi.org/10.1002/eng2.13101, Impact factor 2.29, indexed in WOS/TR/SD.

Thirunavukkarasu, **K.Raju**, **L., Sathish-babu**, **S.Yogeshwaran**, **V.N. Shafeeq Ahmed Z**, **"Securing Your Web Applications: The Power of Bugbite Vulnerability Scanner"**, Communication in Computer and Information Science, vol. 2306. Springer November 2024, Volume 6, pp 45304, ISSN 978-981-97-9743-1, DOI: https://doi.org/10.1007/978-981-97-9743_2-4, indexed in Scopus.

R B Muthukumar, **S Devi**, **R Seyezhai**, **M.Harshavardhini** & **Amman Panjiyyar**, **"Life time assessment of photovoltaic quasi impedance source inverter"**, Lecture Notes in Electrical Engineering,Springer Feburary 2025, Volume 1240, pp 181-192, ISSN 978-981-97-6090-9, DOI: https://doi.org/10.1007/978-981-97-6091_13, Impact factor 0.15, indexed in Scopus.

A.Anbazhagan and **R.Ramaprabha**, **"Power factor correction in SMPS with optimized converter: a hybrid optimization approach"**, Analog Integrated Circuits and Signal Processing, Springer nature February 2025, Volume 123, Print ISSN: 0925 – 1030; e- ISSN: 1573 - 1979, DOI: https://doi.org/10.1007/s10470-025-02328-Impact factor 1.2, indexed in WOS/TR/SD.

FACULTY HIGHLIGHTS

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Karthika Maripandi, **Balaji Mahadevan**, **& Fantin Irudaya Raj Edward Sehar**, **"Design and Analysis of Permanent Magnet Assisted E-Core Stator SRM for Electric Three-Wheeler"**, Journal of Magnetics December 2024, Volume 29, pp 369-379. ISSN 1226-1750, DOI: https://doi.org/10.4283/JMAG.202-4.29. 4.369, Impact factor 0.18, indexed in WOS/TR/SD.

S.Vidhya, **V.Kamaraj**, **M.Balaji**, **"Deep Convolutional Neural Networks for Weed Detection",** Polyhouse-Grown Bell Peppers: Innovations and Applications, book chapter, Computer Vision Techniques for Agricultural Advancements, February 2025. ISBN 9798369380192, DOI: 10.4018/979-8-3693-8019-2, Indexed in Scopus.

R. Deepalaxmi, **C. Vaitilingam**, **"Thermo-Mechanical and Dielectric Parameter Determination of Gamma Irradiated Samples of SIR-EPDM Blends Using Support Vector Machine"**, Journal of Electrical Systems, Dec 2024, Volume 20, pp 8762, ISSN 1112-5209, DOI: https://doi.org/10.52783/jes.8219, Impact factor 0.5, indexed in Scopus.

Arun Ramaveerapathiran, **Muniraj Rathinam**, **Karuppiah Natarajan**, **Muthiah Athi**, **Patil Mounica**, **"Model based multi-loop predictive control scheme for multivariable processes"**, Discover Applied Sciences, February 2025, Volume 7, pp 165, ISSN 3004-9261, DOI: 10.1007/s42452-025-06615-z, Impact factor 2.8, indexed in Scopus.

Rajasi Mandal, **"Integration of Solar Thermal Collectors into a Remote Village Power System and Control of the System",** Lecture Notes in Electrical Engineering, Springer, January 2025, pp 173, Print ISBN 978-981-97-7920-8 and Online- ISBN 978-981-97-7921-5, DOI: https://doi.org/10.10-07/978-981-97-7921-5_13, Indexed in Scopus.

F. Max Savio, **S. Vinson Joshua**, **K. Usha**, **Muhammad Faheem**, **"Design of a Solar-Wind Hybrid Renewable Energy System for Power Quality Enhancement: A Case Study of 2.5MW Real Time DomesticGrid"**, Engineering Reports, January 2025, Volume 7, pp 45675, ISSN 2577-8196,DOI https://doi.org/10.1002/eng2.13101, Impact factor 2.29, indexed in WOS/TR/SD.

Devesh Raj Mani, **"Development of solar powered smart telehealth system for conditioning monitoring in IMC"** ,Multidisciplinary Science Journal, February 2025, Volume 7, pp 45666, ISSN 2675-1240, DOI: https://doi.org/1-0.31893/multiscience.2025391, Impact factor 0.1, indexed in Scopus.

FACULTY HIGHLIGHTS

Success through knowledge

Kumaravel Kaliaperumal, **Meenakshi L. Rathod**, **Leo Raju** and **J. Mahil**, **"Efficient Overlapping Community Detection Using MapReduce-based Fuzzy C-Means Clustering on seed nodes",** IEIE Transactions on Smart Processing & Computing, February 2025, Volume 14, pp 110, ISSN 22875255, DOI https://doi.org/10.557-3/JSTS.2025.14.1.1, Impact factor 0.6, indexed in Scopus.

M. Rajalakshmi, **R. Jeya**, **G.R. Venkatakrishnan**, **R. Rengaraj, "AI in Fintech: Predictive Analytics and Decision-Making"** a text book by Paradox International Publication on 19/03/2025.

3. Conference Presentation / Publication

Gowrishankar D & Jayaparvathy R "Fuzzy-Random Forest Predictive Models for Improvement of Sugarcane Yield and Quality", Fifth International Conference on Advances in Electrical Computing, Communications and Sustainable Technologies conducted by Shankaracharya Technical Campus, Bhilai in Chattisgarh, India on 10/01/2025.

Paari A, Nikesh D, Sai Krishna Karthik P, Balaji M , "Optimized IoT-Driven Smart Irrigation System for Enhanced Agricultural Efficiency and Water Resource Management", International Conference on Multi-Agent Systems for Collaborative Intelligence conducted by Surya Engineering College, Erode in India on 22/01/2025.

Usha K, **Kavin Kishore K**, **Kavin Raam M**, **Keshavraj S**, **"IOT Based Automation System for Efficient production of Vermicompost Manure"** 10th International Conference on Electrical Energy Systems (ICEES - 2024), organized by Department of EEE, SSN College of Engineering, published in IEEE Xplore on 02/01/2025.

Archana C, **Usha K**, **"Multi-objective Antlion optimizer for ring design in a 400kV Tension insulator",** IEEE 11th Power India International Conference (PIICON), conducted by Malaviya National Institute of Technology, Jaipur on 02/01/2025.

Leo Raju, Prathyumnan M, Santhosh G.S, Sasikaran K.S, Thirunavukkarasu K, **"Energy Conservation in Educational Buildings using IOT"** 10th International Conference on Electrical Energy Systems (ICEES - 2024), organized by Department of EEE, SSN College of Engineering, published in IEEE Xplore on 02/01/2025, pp 45297, ISSN 2693-3934, DOI 10.1109/ICEES61253.2024.10776874.

FACULTY HIGHLIGHTS

Success through knowledge

Thirunavukkarasu K, **Leo Raju**,; **Bharathiraja R**, **Yogeshwaran V N**, **Hariharan B**, **"Ecosaver: A Holistic Mobile Solution for Water and Electricity Resource Management"**, 10th International Conference on Electrical Energy Systems (ICEES-2024), organized by Department of EEE, SSN College of Engineering, published in IEEE Xplore on 02/01/2025, pp 45297, ISSN 2693-3934, DOI: 10.1109/ICEES61253.2024.10776938.

Sneha S, **Sriranjini S**, **Himasai T**, **Balaji M**, **"An IoT-Enabled Intelligent Traffic Management System with CNN-Based Accident Detection and Dynamic Rerouting Using K-Means and Dijkstra's Algorithm"**, International Conference on Multi-Agent Systems for Collaborative Intelligence, organized by Surya Engineering College,Erode, India on 22/01/2025.

Leo Raju, **Sneha S**, **Sriranjini S**, **"IOT and App based Novel Robust Smart Energy Management and Demand side Management of microgrids"** 10th International Conference on Electrical Energy Systems (ICEES-2024), organized by Department of EEE, SSN College of Engineering, published in IEEE Xplore on 02/01/2025, pp 45297, ISSN 2693-3934, DOI 10.1109/ICEES61253.20-24.10776845.

R.Seyezhai, **Shabeer Basha**, **S. V. Sujith Niranjan**, **P.Priya**, **"Simulation Studies and Development of Cascaded DC-DC Converter for Eco-Friendly Electric Cart Systems"**, International Conference on Advances in Renewable Energy & Electric Vehicles (AREEV-2025), conducted by Department of Electrical Engineering, NMAM Institute of Technology, Nitte, Mangalore on 06/02/2025.

R.Seyezhai & M.Sudhakaran, **"A Comparative Exploration of Symmetric and Asymmetric Multilevel Inverters for Electric Vehicles"**, 6th International Conference on Power and Embedded Drive Control – 2025 (ICPEDC – 2025) conducted by Department of Electrical Engineering, SSN College of Engineering, Kalavakkam on 27/02/2025.

Lakshmi Praba B, **R. Seyezhai**, **Aarthi S**, **Abhinaya R**, **Kaavyaashri S**, and **B Lohini**, **"Empowering Solar Charging Solutions with Interleaved Synchronous Buck Converter"**, 6th International Conference on Power and Embedded Drive Control – 2025 (ICPEDC – 2025) conducted by Department of Electrical Engineering, SSN College of Engineering, Kalavakkam on 27/02/2025.

FACULTY HIGHLIGHTS

Success through knowledge

R. Ramaprabha & Gokularaman S R, **"Implementation of Super Lift Luo Multilevel Inverters for PV Interfacing",** IEEE 2025 International Conference on Advances in Renewable Energy and Electrical Vehicles (AREEV 2025), conducted by NMAM Institute of Technology, NITTE, Karkala, Karnataka, India on 06/02/2025.

K.K.Nagarajan & Ramya M, **"Enhancing Radiation Hardness of Reconfigurable RingFETs Using Numerical Device Simulations",** 3rd IEEE International Conference on Electronics and Renewable Systems (ICEARS-2025) organized by St. Mother Theresa Engineering College Tuticorin (Thoothukudi), Tamil Nadu, India on 11/02/2025.

K.K.Nagarajan & Sumathi K, **"Effect of temperature on the sensitivity parameters of an Indium Gallium Nitride Quantum Dot LED",** 3rd IEEE International Conference on Electronics and Renewable Systems (ICEARS-2025), conducted by St. Mother Theresa Engineering College Tuticorin (Thoothukudi), Tamil Nadu, India on 11/02/2025.

Abishek C A, **Anandh V**, **Parameshwaran R**, **Nagarajan K K** **"Impact of Process Variation on SiC MOSFET",** 6th International Conference on Power and Embedded Drive Control – 2025 (ICPEDC – 2025) conducted by Department of Electrical Engineering, SSN College of Engineering, Kalavakkam-603110 on 27/02/2025.

Sajjan Kumar, **Atanu Roy**, **Anirban Maity**, **"Design and Implementation of IoT-based real-time monitoring and control of wind turbines",** 3rd International Conference on Smart Grid Energy Systems and Control (SGESC-2025), conducted by NIT Kurukshetra, Haryana on 23/02/2025.

Sajjan Kumar, **Abishek J**, **Atanu Roy**, **Najeeb Ahmad**, **& Anirban Maity**, **"IoT-Based Remote Monitoring and Fault Diagnosis of Wind Turbine",** 2025 2nd International Conference on Emerging Trends in Electrical Machines, Power and Energy Systems (EMPOWER 2025), conducted by SRM Institute of Science and Technology in Ramapuram, Chennai on 25/02/2025.

R. Ramaprabha & Gokularaman S R, **"Implementation of PV based Converter Control for Plug-in Hybrid Vehicle",** IEEE – 4th International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems(ICSES-2024) organized by St. Joseph's Institute of Technology, Semmanchery, Chennai during 12-13, Dec 2024,

FACULTY HIGHLIGHTS

Success through knowledge

D.K.Lakshana, **Anbuselvi Mathivanan, Saravanan Palaniswamy**, **"A Cost-effective embedded system to prevent roadkill",** National conference on Information and Communication technologies, conducted by ECE Dept, SSNCE, February 20-21, 2025.

Harine Sree R, **Saravanan Palaniswamy**, **Anbuselvi Mathivanan**, **"A Comprehensible Study on Battery Management System"** National conference on Information and Communication technologies, conducted by ECE Dept, SSNCE, 20-21 February 2025.

Dr.V.Rajini, **"Design Optimization of 3 Phase Induction Motor for Efficiency and Performance Improvement"** International Conference on contemporary Engineering research and technology, ICCET 25 at Prince Venkateshwara college, Chennai on 21st March 2025.

Dr.V.Rajini, **"Closed Loop Control of Brushless DC Motor using dsPIC Controller",** International Conference on contemporary Engineering research and technology, ICCET-25, Prince Venkateshwara college, Chennai on 21st March 2025.

Dr.V.Rajini, **"Investigations on half bridge resonant converter for Electric vehicles"** International Conference on contemporary Engineering research and technology, ICCET 25 at Prince Venkateshwara college, Chennai on 21st March 2025.

R. Ramaprabha, **M. Aathiswari**, **M. Deepika & S. Aswin**, **"Implementation of Single-Phase Quadratic Switched Boost Inverter for PV Application"** 6th International Conference on Power and Embedded Drive Control (ICPEDC 2025) held during 27-28, Feb 2025 conducted by Department of EEE, Sri Sivasubramaniya Nadar (SSN) College of Engineering, Kalavakkam.

R.Amartyasen, **M.Balaji**, **S.T.Vigneshwar**, **"Design and Analysis of BLDC Motor For Electric Two Wheelers"** First International Conference on Frontier Technology and Solutions conducted by St. Joseph's College of Engineering ,Chennai in India on 27/03/2025.

M.Senthil Kumaran, **N.Retish**, **R.Saimugil, P.Satrapathy**, **"Self balancing robot for personal assistance"** 13th International conference on contemporary Engineering and Technology 2025 conducted by Prince Shri Venkateswara Padmavathy Engineering College and Prince Dr.K. Vasudevan College of Engineering on 22/03/2025

FACULTY HIGHLIGHTS

Success through knowledge

K. Murugesan, **Gokula Krishnan G B**, **Nandagopal G**, **Guru Prasanth B**, **"Brain Computer Interface For Vehicle Navigation"** 13th International conference on contemporary Engineering and Technology 2025, conducted by Prince Shri Venkateswara Padmavathy Engineering College and Prince Dr.K. Vasudevan College of Engineering and Technology on 22/03/2025.

Dr. Leo Raju, **"Energy Auditing and Management using IoT and Machine Learning"** AREEV 2025 conducted by IEEE in NMAM Institute of Technology, Nitte, Karkala, Karnataka on 06/2/2025.

Leo Raju, **Mani Krishnaa E**, **Monishkumar R**, **"Building Energy Auditing using Advanced Technologies"** ICPEDC2025 conducted by Springer in SSN College of Engineering, Chennai on 02/03/2025.

Leo Raju, **Vasanthakrishnan. S**, **Yogesh. G.S**, **Sriram. S**, **"A Smart and Efficient Energy Monitoring and Management System based on Internet of Things (IoT)"** E2ACON 2025, conducted by Springer in NIT Jalandar on 08/03/2025.

B. Vishnupriya, **S.Krishnaveni**, **"High-Gain DC-DC Converter with Single-Switch for Renewable Energy Applications"** International Conference on Smart Systems for applications in Electrical Sciences (ICSSES-2025) conducted by Siddaganga Institute of Technology in Tumaguru, Karnatakaon 21/03/2025.

Sajjan Kumar, **Harini Sree S**, **Kaviasri J**, **Khavipriya D**, **"Comparative Analysis of Optimal DG Placement and Different Demand Side Load Management Strategies on Radial Distribution Network",** Smart Technology for Emerging Problems (STEP) 2k25 conducted by Gargi Memorial Institute of Technology, Kolkata in Baruipur, Kolkata on 21/03/2025.

Anirban Maity, **Sajjan Kumar**, **Pulok Pattanayak**, **"Techno-Economic Analysis of Hybrid Microgrid System with EV Charging Facility",** Smart Technology for Emerging Problems (STEP) 2k25 conducted by Gargi Memorial Institute of Technology, Kolkata in Baruipur, Kolkata on 22/03/2025.

Sajjan Kumar, **Venkatakrishnan G.R**, **Rengaraj R**, **Saimidra S.S**, **Shivani S.M & Vishnuppriyan B**, **"Enhancing Grid Stability Using Dynamic Reserve Power Point Tracking Techniques",**

FACULTY HIGHLIGHTS

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Smart Technology for Emerging Problems (STEP) 2k25 conducted by Gargi Memorial Institute of Technology, Kolkata in Baruipur, Kolkata on 21/03/2025.

Ponraj P, **Suman Murugesan**, **"A Bi-level Decision Support System for Home Energy Management"** Smart Homes in 11th IEEE International Conference on Power Electronics Drives and Energy Systems PEDES 2024, conducted by Electrical & Electronics Engineering, National Institute of Technology Karnataka, Surathkal, India on 21/03/2025.

Rohit Sharavan J, **Thirukkumaran S**, **Veeresh S R & R. Ramaprabha**, **"Real-Time Charging Slot Detection and Route Optimization System for Smart EV"** 6th National Conference on Recent Trends in Power and Energy Engineering (RTPEE-2025) held during March 18-19, 2025 conducted by Sri Sivasubramaniya Nadar (SSN) College of Engineering, Kalavakkam in Department of EEE on 19/03/2025.

G. Melviah & R. Ramaprabha, **"Simulation of Non-Isolated High Gain DC – DC Converter for PV Applications"** in 6th National Conference on Recent Trends in Power and Energy Engineering (RTPEE-2025) held during March 18-19, 2025 conducted by Sri Sivasubramaniya Nadar (SSN) College of Engineering, Kalavakkam in Department of EEE, on 19/03/2025.

Dhanush priya S, **Gunali T**, **Kaarventhan T N & Nagarajan K K**, **"Smart Irrigation Using IoT and Plant Disease Detection",** 6th National Conference on Recent Trends in Power and Energy Engineering (RTPEE-2025) held during Mar 18 - 19, 2025 conducted by Sri Sivasubramaniya Nadar (SSN) College of Engineering, Kalavakkam in Department of EEE.

Keerthiraj Natarajan, **Keshav Dawara**, **Vishwayishwaran**, **Lakshmanakumar**, **Darma Sajisnu**, **& K.K. Nagarajan**, **"Real-Time Air Quality Monitoring System Using IoT and Machine Learning for Accurate Data Analysis"** 6th National Conference on Recent Trends in Power and Energy Engineering (RTPEE-2025) held during Mar 18 - 19, 2025 conducted by Sri Sivasubramaniya Nadar (SSN) College of Engineering, Kalavakkam in Department of EEE on 19/03/2025.

4.Project Info

4a. Projects Applied

Dr.R.Seyezhai(PI), **Dr.R.Ramaprabha** (Co-PI), **"Design and development of high efficiency 5kW rated configurable and scalable converter using wide band gap devices for aerospace applications"** on 29/01/2025 to the funding agency RESPOND Basket 2024, ISRO for a duration of 3 years, funding amount of 2800000 Rupees.

FACULTY HIGHLIGHTS

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Dr.R.Ramaprabha(PI) and **Dr.R. Seyezhai**(Co-PI), **"Dual & Triple output, Short Circuit Protected, Soft-switching, Isolated DC-DC converters with Wide Input Voltage range and built-in EMI Filter for launch vehicles/orbital vehicles"** on 30/01/2025 to the funding agency ISRO centre - Vikram Sarabhai Space Centre, Thiruvananthapuram under RESPOND BASKET 2024 for a duration of 2 Years, funding amount of 31.25 lakhs Rupees.

Dr.Muthu Selvan N B, Dr.Balaji M & Dr. Kamaraj V, **"Dual & Triple output, Short Circuit Protected, Soft-switching, Isolated DC-DC converters with Wide Input Voltage range and built-in EMI Filter for launch vehicles/orbital vehicles"** on 29/01/2025 to the funding agency ISRO for a duration of 3 years, funding amount of 2946888 Rupees.

Dr.Muthu Selvan N B, Ms. Sangamathirai, Ms. Aarthi R, Ms. Smithaa M, **"Rural & Urban development/ Manufacturing/ Engineering Technology"** on 25/01/2025 to the funding agency Tamil Nādu State Government for a duration of one year, funding amount of 10000 Rupees.

Dr.Muthu Selvan N B, Mr. Nirmalkrishna, Mr. Sanjiv Ramanathan, Ms. Thanusri A, **"Predictive Maintenance of Wind Turbine Systems Using Artificial Intelligence"** on 25/01/2025 to the funding agency Tamil Nādu State Government for a duration of one year, funding amount of 10000 Rupees.

Dr.K.Murgesan (PI), Dr.R.Arun(Co-PI), Dr. D. Praveen Sam(Co-PI), **"இளைஞர்களின் மன மற்றும் உடல் நலனை நிலைநிறுத்துவதில் இந்திய பாரம்பரிய விளையாட்டுகள்"** on 27/02/2025 to the funding agency Ministry of Education, GoI for a duration of two years, funding amount of 1500000 Rupees.

Dr.V.Rajini, Dr.V.S.Nagarajan, **"Echoes of the Past: AI driven digital restoration and transliteration of Indian temple inscriptions"** to IKS mission, funding amount Rs.19.80 lakhs.

Dr.R.Seyezhai(PI) & Dr.R.Ramaprabha (Co-PI), **"Optimized Real-Time Energy Management for PEM Fuel Cell Based Green Microgrid"** on 26/03/2025 to the funding agency CPRI, Bangalore for a duration of two years, funding amount of 70,76,000 Rupees.

Dr.R.Ramaprabha (PI) & Dr.M.Balaji (Co-PI), "Real-time Implementation of a Hybrid EV Charging Station Enhanced with IoT Interface" on 27/03/2025 to the funding agency CPRI-RSoP for a duration of two years, funding amount of 48.09 lakhs Rupees.

FACULTY HIGHLIGHTS

Success through knowledge

Dr.R.Leo(PI) & Dr.Sajjan kumar, Dr.Rohit Kumar, & Dr. U.Padhmavathi, CSE-SNU (Co-PI), "**Blockchain and Osmotic Computing Integrated AIoT System for Optimized Energy Conservation in Buildings**" on 27/03/2025 to the funding agency CPRI for a duration of 2 years, funding amount of 4000000 Rupees.

Dr.V.Rajini (PI), Dr.V.S.Nagarajan (PI), **"Development of Atmanirbhar High-Power Capacity Powertrain EV Sub Systems: Rare Earth Magnet free EV Grade Motor, High Voltage Integrated Power Controller Module, Dynamic Wireless High-Frequency Inverter, Bi-directional Chargers with V2G, V2V, V2H capabilities, Energy efficient regenerative antilock Battery Management System (BMS)"** Presented on 17/2/2025), to MAHA-EV Mission, ANRF, duration three years, funding amount of 2.44 crores for SSN.

4b. Projects Sanctioned

No. of projects sanctioned under **STIRS-2024**:

UG 1st year - **9**

PG 1st year - **3**

UG 2nd,3rd,4th years - **32**

PG 2nd year - **2**

Click to access the list of Sanctioned Internally Funded Students Projects under **STIRS-2024**

5. Patent Info

Dr.R.Seyezhai & M.Sridhar applied for national patent for an idea titled, **"A Non-reversal Power Converter for Enhanced LED Performance"** on 10/01/2025.

6. Events Organized

6a. Conferences

Department of EEE organized 6th **International Conference on Power And Embedded Drive Control – 2025 (ICPEDC – 2025)**, during February 27-28, March 2025.

Department of EEE organized 6th National Conference on **Recent Trends in Power and Energy Engineering**, **RTPEE - 2025** on 18th and 19th March 2025.

6b. Workshops, STTPs, FDPs, Seminars

Dr.V.Rajini, Dr.V.Kamaraj, Dr.R.Seyezhai, Dr.R.Ramaprabha & Dr.M.Balaji organized a Expert Session towards **National Energy Conservation Day Celebration** conducted by SSN-ISTE-Faculty Chapter, EEE & SSN-IIC on Energy-Efficient Electric Drive Systems at EEE Department - III B Classroom on 25/01/2025.

FACULTY HIGHLIGHTS

Success through knowledge

Dr.V.Rajini, Dr.R.Seyezhai, Dr.R. Ramaprabha, Dr.M.Balaji, organized a workshop through EEE & SSN-IIC, on **Process of Innovation Development & Technology Readiness Level (TRL) and Commercialization of Lab Technologies** at EEE Department - III A Classroom on 24/01/2025.

Dr.M.Devesh Raj, organized one day workshop on "**Analysis of Switching Transients in Power Transmission using EMTP-RV**" at System Simulation Lab, Dept. of EEE, SSNCE on 22/01/2025.

Dr.M.Devesh Raj, **& Dr.V.Rajini**, HOD-EEE organized a Placement & Training Session on **"Internship and Placement for Core and IT companies"** at Third Year A sec Class Room, Dept. of EEE, SSNCE on 22/01/2025.

Dr.R.Jayaparvathy & Dr.K.K.Nagarajan, organized National level Workshop on **Application Specific Integrated Circuits** at EEE Department on 22/02/2025.

Dr. V. Rajini, Dr. R. Seyezhai, Dr. R. Ramaprabha, Dr.M.Balaji organized National Level Workshop **on "Hands-on Training in ESP 32 Microcontroller"** during January 30-31, 2025, at Microprocessor Lab, Department of EEE on 01/02/2025.

Dr. V. Thiyagarajan, **Dr. R. Seyezhai**, **Dr. R. Ramaprabha**, **& Dr. M. Balaji** organized a National NSS Youth Camp, SSN YRC & SSN-IIC on January 30, 2025, at SSN College of Engineering, Kalavakkam. at Mini Auditorium on 01/02/2025.

Dr. V. Rajini, **Dr. R. Seyezhai**, **Dr.R. Ramaprabha**, **Dr. M. Balaji**, through IEEE Power Electronics Society & SSN Student branch and Department of EEE, organized a Tech Talk on **"SoC/ASIC Design Verification on FPGAs"** on Feb 05, 2025 through online mode on 05/02/2025.

Dr. V. Rajini, **Dr. R. Seyezhai**, **Dr. R. Ramaprabha**, **Dr. M. Balaji**, organized a Workshop under EEE & SSN-IIC, **on Achieving Problem - Solution Fit & Product-Market Fit** at EEE Department - II A Classroom on 06/02/2025.

Dr. V. Rajini, **Dr. R. Seyezhai**, **Dr. R. Ramaprabha**, **Dr. M. Balaji**, organized a Technical Talk on **Practical Approach and Design Aspects of Motor Control in Nuclear Application** at I Year M.E. Class room, EEE Department, SSNCE on 28/02/2025.

IEI, IEEE PES organized a Faculty Development Program on **Industry 4.0: Transforming Technologies and Practices"** at SSNCE on 20/02/2025.

Dr.M.Senthilkumaran, Dr. R.Arun, **organized** two days Workshop on **Control System Theory to Practice** at SSN on 21/02/2025.

FACULTY HIGHLIGHTS

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Dr.R.Seyezhai, & Mr J.Dheepan, SSN iFound organized a Short term training program entitled, "**Training Program on IoT Concepts & Applications**" conducted by SSNiFound in association with TANSAM at offline on 04/03/2025.

Dr.R.Seyezhai, Dr.R.Ramaprabha, Dr. M. Balaji, organized a Celebration Event - EEE, IEEE-PELS & IQAC **International Women's Day Celebration** at EEE Seminar Hall on 08/03/2025.

Dr.V.Rajini, **Dr.V.Kamaraj**, **Dr.R. Seyezhai**,**Dr. R. Ramaprabha**, **Dr. M. Balaji**, organized EEE & ISTE Workshop on **Emerging EV and Battery Technology** at EEE Department, SSNCE on 21/03/2025.

Dr.M.Devesh Raj, Dr.R.Rengaraj & Dr.G.R.Venkatakrishnan organized two days workshop, "**Reactive power compensation using Power World Simulator**" at System Simulation Lab, Dept. of EEE, SSNCE on 10/03/2025.

Dr.K.Murugesan, Dr.M.Senthil kumaran, Dr. P. Saravanan and Dr. K.K.Nagarajan organized a workshop, on **Unlocking the Power of VHDL Design of dedicated processor from Fundamental to Digital Principles** on 6th and 7th March 2025 at EEE Department, SSNCE.

Dr .R.Leo & Dr.Rajesh Panda organized a two days FDP on **Advance Technologies for Smart Grid** at EEE SSNCE during January 24-25, 2025.

Dr.Sajjan Kumar, **Dr.Leo Raju** organized three days, STTP on **Smart Technologies in Electrical Engineering Research** (STEER-2025) at EEE Department on 27/03/2025.

Dr.V.Rajini (Convenor), **Dr.Rajasi Mandal**, **Dr.Rajesh Panda**, **Dr.Leo Raju** (Cordinators) organized a five days STTP on **Recent Developments in Electrical Engineering Systems** (RDEES-2025) at Seminar Hall, EEE Department, SSN College of Engineering during January 17-21,2025.

Dr.V.Rajini,Dr.V.Kamaraj,Dr.R.Deepalaxmi, organized a Invited Guest Lecture on **Practical SMPS Design Considerations** at Department of EEE on 24/02/2025.

Dr.V.Thiyagarajan organized an Invited Guest Lecture on **Robotics** at SSN College Of Engineering on 20/02/2025.

Dr.V.Thiyagarajan, organized an Invited Guest Lecture on **High Voltage System in Electric Vehicle** at SSN College of Engineering on 22/02/2025.

Dr.V.Rajini,Dr.R.Seyezhai,Dr.R.Ramaprabha, Dr.M.Balaji, organized a Technical Talk, **"Wireless Power Transfer: Technology and Applications"** at EEE Department - II A Classroom on 10/03/2025.

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7.Events Attended

Dr.R.Seyezhai attended two days workshop on **Celebration activity of National Conservation Day,** jointly organized by SSN-IIC, SSN-ISTE & EEE Dept, SSNCE on 25/01/2025 organized by SSN College of Engineering at offline.

Dr.S.Krishaveni attended one day workshop on **Exploring the use of AI Companions in Education** on 24/01/2025 organized by SSN College of Engineering at CDC Hall, SSNCE.

Dr.N.B.Muthuselvan attended five days FDP on **AI Tools** on 17/02/2025 organized by SRM Institute of Science and Technology, Kattankulathur, in association with AICTE, Brain O Vision, and NEAT (National Educational Alliance for Technology) at Chennai.

Dr. Sajjan Kumar attended one day event on **Automotive Electrical & Electronics Summit 2025** on 26/02/2025 organized by CII at Hotel ITC Grand Chola, Chennai.

Dr.S.Krishaveni attended five days FDP on **Artificial Intelligence & IoT in Industry 5.0: Shaping the future of Smarter Industries,** via online, on 03/02/2025 organized by Department of Computer Networking, PSG Polytechnic College, Coimbatore.

Dr.Rajesh Panda attended three days workshop on **Industry 4.0 Transforming Technologies and Practices** on 20/02/2025 organized by SSN College of Engineering at Chennai.

Dr.R.Leo attended six days FDP on **Revolutionizing Education with AI: Teaching and Learning Strategies** on 10/03/2025 organized by Narasaraoptea Engineering College at Telengana.

Dr. Rajasi Mandal attended three days, FDP on **Smart Technologies for Electrical Engineering Research** (STEER-2025) from 27/03/2025 to 29/03/2025 organized by SSN College of Engineering at EEE Seminar Hall.

8.Industrial Collaboration

Dr.M.Balaji, & Dr.V.Rajini, have initiated a **MoU with "Krishna blue metals"** and it was successfully signed on 6/03/2025.

Dr.K.Usha, & Dr.V.Rajini, have initiated a **MoU with "Teralumen technologies"** and it was successfully signed on 29/03/2025.

Dr.V.Rajini demonstrated the hardware developed for the consultancy work done for **Rane NSK**. A team of 5 engineers attended this meeting on 20/01/2025.

Dr.V.Rajini attended the discussion session with **Mr.Sounder,** EMI/EMC division of Valeo on 28/01/2025.

FACULTY HIGHLIGHTS

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Dr.R.Rengaraj has received consultancy grant for providing solution in **Performance Improvement of High-Speed Extrusion and Rewinding Lines,** for an amount of 252000 for a period of 3 years in the area of Wires and Cables on 04/01/2025 for SIECHEM Technologies Private Ltd.

Dr.P.Saravanan visited the **Renault Nissan** Technology Business Centre India – Battery Research Lab at IITMRP. He had insightful discussion with **Dr. Motoki Yaginuma**, **Dr.Anjalli** and **Shivkumar Patel**, covering **battery chemistry, cell design, performance impact, and the current EV market landscape**.

Dr.P.Saravanan, as a part of MoU with **Powerlab**, met **Mr. Bala** from Powerlab who came to SSN on 11.02.2025, demonstrated the use of **network card for BMS invocation** and discussed about the further MoU activities related to BMS and hand-on sessions.

9.Alumni Interaction

Mr.Balaji R (2017 batch), Engineer – Electromagnetics, **Abhinava Rizel Private Limited** (Tier 1 OEM manufacturer of Electric PowerTrain), Chennai, visited the department and interacted with students on 28-2-2025.

10. Notable Visitors

Dr.V.Rajini organized the interaction session with **Prof. Kannan**, Arizona state university in EEE department, SSN College of Engineering on 30/01/2025.

11.Other Items

Dr.R Seyezhai, attended the online meeting regarding the **Minor in Entrepreneurship** with **Prof.Dev Dhip** & his team, IIT Bombay, chaired by the President, SSN Institutions and Principal, SSNCE.

Dr.R.Ramaprabha along with NIRF team attended **NIRF2025 data entry approval meeting** with SSN president on Jan 03 & Jan 07, 2025.

Dr.R.Ramaprabha along with NIRF team successfully submitted NIRF2025 data in NIRF portal on Jan 18, 2025.

Dr.Rajesh Panda reviewed a paper for Energy Strategy Reviews, Elsevier on 10/01/2025.

Dr.V.Thiyagarajan acted as Jury member in **Vortex Hackathon 2025** organized by IEEE Student Branch, Sri Sivasubramaniya Nadar College of Engineering on 24/02/2025.

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Dr.Rajesh Panda reviewed a paper for International Journal of Global Warming on 25/01/2025.

Dr.Sajjan Kumar reviewed one paper for "**Cleaner Engineering and Technology, Elsevier**", two papers for "**Measurement, Elsevier**", and one paper for "**Microsystem Technologies, Springer**" on 05/02/2025.

Dr.Rajesh Panda reviewed a paper for International Journal of Wind Engineering on 16/02/2025.

Dr.Rajasi Mandal has accompanied 2nd year EEE-A and EEE-B students on their Industrial Visit to Kerala on 25/02/2025.

Dr.R.Seyezhai, organized and co-ordinated the visit by **Gyansthan Education services** to SSNiFound, EEE & Mechanical department, on 07/03/2025, where 30 students from **Vadodora** visited the campus and they were demonstrated about the recent research work carried out in the area of **EV, Robotics, Renewable Energy** & addressed regarding taking up the career as Entrepreneur.

Dr.R.Seyezhai, demonstrated the working of **e-bicycle** and **solar e-trike**, **PFC LED Drivers** for the II & III Year students for the technical tour arranged by Gyansthan Education services.

Dr.R.Ramaprabha, reviewed a paper for International journal, energy reports (Elsevier) on Feb 28 2025.

Dr.R.Leo, reviewed a paper for International journal, Internet of Things and Cyber Physical Systems on 24/03/2025.

Dr.Rajesh Panda, reviewed a paper for International Journal of Engineering Reports on 09/03/2025.

Dr.Rajesh Panda, reviewed a paper for IET Generation, Transmission and Distribution on 15/03/2025.

Dr.Rajesh Panda, reviewed a paper for Energy Report, Elsevier on 23/03/2025.

12. Student Activity

Third year EEE students, **R. Goutham** has been granted 65% scholarship and **L.Anshul** has been granted 50% scholarship for the **Samsung Fellowship** as part of Cohort 4 of the India Semiconductor Workforce Development Program (ISWDP) under the guidance of **Dr.K.K. Nagarajan.**

A.S.Aathish, Akash Karthick & Ashwathy of final year EEE has applied for the **Tamilnadu Niral thiruvizha 2.0** for a funding of Rs.10,000/- with **Dr.R Seyezhai** as Mentor.

Smart Technologies for Electrical Engineering Research (STEER-2025)

(3 Days Short Term Training Programme (STTP))

The department of Electrical and Electronics Engineering, Sri Sivasubramaniya Nadar (SSN) College of Engineering has successfully conducted a three-day Short Term Training Programme (STTP) on Smart Technologies for Electrical Engineering Research (STEER-2025) from 27th to 29th March 2025. The convenor of this event was Dr. V. Rajini, Professor and HOD, EEE. Dr. Sajjan Kumar and Dr. R. Leo were the coordinators of this STTP.

The main objective of this STTP was to disseminate the latest technical knowledge and ideas for their future research. The main focus of the event was to discuss the latest and advanced technologies like artificial intelligence, Internet of Things, machine learning, and blockchain and so on, applicable in various electrical domains like power system, renewable energy, micro & smart grids, etc. In those three days, total six sessions were conducted by six different eminent resource persons from top institutions. The details of the speakers and their topics are as follows:

EEE PULSE

Highlighting our department dynamic events

Date	Time	Speaker
Day-1 **27th March 2025**	10:00 am - 11:30 am	**Dr. Anik Goswami** Assistant Professor (Senior), School of Electrical Engineering, VIT Chennai **Title:** AI techniques for parameter extraction of Floating Solar cells parameters
	01:30 pm - 03:00 pm	**Dr. G.Y. Rajaa Vikhram** Assistant Professor, Department of Electronics and Instrumentation Engineering, SRM University, Chennai, TN **Title:** Transactive Cyber-Physical Energy Systems: The Role of IoT, Embedded, and Edge Computing
Day-2 **28th March 2025**	10:00 am - 11:30 am	**Dr U. Padmavathy** Assistant Professor, department of CSE, SNU, Chennai, TN **Title:** Blockchain for Electrical Engineering
	01:30 pm - 03:00 pm	**Dr. Pritam Bhowmik** Assistant Professor (Senior), School of Electrical Engineering, VIT Chennai. **Title:** Machine Learning in Electric Vehicles: Topologies, Diagnostics, Battery Characterization, and Predictive Analytics
Day-3 **29th March 2025**	10:00 am - 11:30 am	**Dr. Chandan Kumar Chanda** Professor (HAG), Dept. of EE, IIEST, Shibpur, WB **Title:** Futuristic Power System: Advancement Using AI Technologies
	01:30 pm - 03:00 pm	**Dr. V. Sandeep** Head, Department of Electrical Engineering, NIT Andhra Pradesh **Title:** Role of AI-ML in Emerging Smart Grid

EEE PULSE

Highlighting our department dynamic events

"Recent Developments in Electrical Engineering Systems" (RDEES-2025)

(5 Days Short Term Training Programme)

The Department of Electrical and Electronics Engineering has organised five-day Short Term Training Programme (STTP) on "Recent Developments in Electrical Engineering Systems" (RDEES-2025) from 17th March 2025 to 21st March 2025 at the EEE Seminar Hall. The convenor of the STTP was Prof. V. Rajini, Professor and HOD, EEE. The STTP was coordinated by Dr. Rajasi Mandal, Assistant Professor, EEE, Dr. Rajesh Panda, Assistant Professor, EEE, and Dr. Leo Raju, Associate Professor, EEE. The total number of registered participants were 79. The STTP was attended by UG and PG students, research scholars, and faculty members. The STTP exposed the participants to a new world of knowledge, made them aware of the trending research topics and on-going research activities, and encouraged them with some new innovative ideas for projects and research.

On **Day 1 (17.03.2025 Monday)**, the forenoon session began with a brief Inaugural Program followed by a talk by **Dr. Sudha Anbalagan**, AP, Centre for Smart Grid Technologies, VIT, Chennai, TN on "Role of Computers in Smart Grid Applications". In the Afternoon Session of the same day, **Dr. Rohit Kumar**, AP, CSE, SNU, Chennai, TN, delivered a lecture on "Cyber Physical System for Electrical Engineering"

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On **Day 2 (18.03.2025 Tuesday),** the forenoon session talk was delivered by **Dr. Soham Dutta,** AP, EEE, Manipal Institute of Technology, Manipal, Karnataka, on "Advanced Island and Fault Detection in Active Distribution Network". In the afternoon session of the same day, **Dr. Pallavi Verma**, ASP, EEE, Dronacharya Group of Institutions, Greater Noida, UP, discussed her expertise on "Control of PV based Microgrid for Enhanced Performance".

On **Day 3 (19.03.2025 Wednesday)**, **Dr. Debayan Sarkar**, AP, EE, NIT, Silchar, Assam, delivered a lecture on "Integration of BIPV and FSPV Technologies: A New Era in Clean Energy Production" in the forenoon session and **Dr. Anirban Mishra**, AP, EEE, Dronacharya Group of Institutions, Greater Noida, UP, presented on "Role of AI in Renewable Energy" in the afternoon session. On **Day 4 (20.03.2025 Thursday),** in the forenoon session **Dr. Chandan Kumar Shiva**, ASP, EEE, SR University, Telangana, presented his talk on "Electrical Engineering Applications using Hardware-in-the-Loop (HIL) and Virtual Hardware-in-the-Loop (vHIL): Bridging Simulation and Real-World Testing for Enhanced System Design and Validation", was followed by a lecture by Prof. Ashwin Kumar Sahoo, Professor and Head, EE, C. V Raman Global University, Bhubaneswar, Odisha on "Advanced Fault Diagnosis Techniques for Electrical Machines".

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Highlighting our department dynamic events

On the final day of the STTP i.e., on **Day 5 (21.03.2025 Friday)**, the forenoon session was conducted by **Prof. Maheshwari R.**, Professor and Dean Innovations, EEE, Rajalakshmi Institute of Technology, Chennai, TN on "Blockchain for Electrical Engineering". Finally, on the afternoon session of the same day, Dr. R. Geetha, Research Scientist, Centre for Climate Change and Disaster Management, Anna University, TN presented on "Climate Change Growth Strategies" followed by the valedictory session.

Convener

Dr. V. Rajini, Professor and Head, EEE, SSN College of Engineering

Coordinators

Dr. Rajasi Mandal, Assistant Professor, EEE, SSN College of Engineering

Dr. Rajesh Panda, Assistant Professor, EEE, SSN College of Engineering

Dr. Leo Raju, Associate Professor, EEE, SSN College of Engineering

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Highlighting our department dynamic events

Two days Workshop on "Emerging EV and Battery Technology"

The Department of Electrical and Electronics Engineering organized a National Level two day workshop on "Emerging EV and Battery Technology" in association with ISTE – Faculty Chapter, SSNCE & TEEV Pvt. Ltd from March 20 to 21, 2025.

Conveners
Dr. V. Rajini
Dr. V. Kamaraj

Coordinators
Dr. R. Seyezhai
Dr. R. Ramaprabha
Dr. M. Balaji

Overview:
The workshop on "Emerging EV and Battery Technology" provided participants with a comprehensive understanding of the latest advancements in electric vehicles (EVs) and battery technology. The workshop was facilitated by industry experts from Team Energy Electric Ventures Pvt. Ltd. The primary objectives were to explore emerging trends in EVs and battery technologies, offer hands-on experience in battery pack construction and assembly for two-wheelers, and create a platform for networking and knowledge exchange among participants, industry experts, and researchers.

Day 1 (20.03.2025)

Session 1 – Basics of Electric vehicle (EV) and Battery technology.
Session 2 – Demonstration of Advanced Cell battery pack construction.

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Highlighting our department dynamic events

The session covered the fundamental concepts of electric vehicles, including their components, working principles, and the latest advancements in battery technology. In the demonstration session, participants were shown the process of constructing battery packs, with a focus on battery sizing, assembly techniques, and the importance of battery management systems.

Day 2 (21.03.2025)

Session 1 – Demonstration of EV two-wheeler chassis assembly, including motor and controller.
Session 2 – Assembly of two-wheeler body and all relevant components & test drive of the fully assembled vehicle.

The session provided a hands-on demonstration of assembling the chassis of an electric two-wheeler, focusing on the integration of the motor and controller. Participants then assembled all relevant components of the two-wheeler, followed by a test drive of the fully assembled vehicle to evaluate its performance.

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Feedback:

Participants expressed high levels of satisfaction with the workshop, highlighting its practical relevance and the expertise of the resource persons. They appreciated the hands-on approach and the opportunity to interact with industry professionals. The participants expressed interest in attending similar workshops in future.

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Highlighting our department dynamic events

6th International Conference on Power & Embedded Drive Control (ICPEDC – 2025)

The department of Electrical and Electronics Engineering organized its 6th International Conference on Power and Embedded Drive Control – 2025 (ICPEDC – 2025) from February 27 to 28, 2025. Dr. Nattachote Rugthaicharoencheep from Rajamangala University of Technology, Thailand, was the chief guest for the inaugural function held at EEE seminar Hall.

The primary objective of ICPEDC - 2025 is to bring together researchers, engineers, and practitioners from all around the world, interested in the latest advancements in the fields of Renewable Energy, Power Systems, Power Electronics and Drives, Electric Vehicles, Embedded Systems, Control, and Applications using IoT, AI, ML.

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The keynote addresses and paper presentation sessions of the conference were spread over two days (27th and 28th February 2025). The conference technical committee had meticulously reviewed over 240 submissions, selecting 80 high quality papers for presentation and publication in the conference proceedings. Selected papers from the conference will be published as proceedings with Springer in their prestigious Lecture Notes in Electrical Engineering series in two volumes.

The first keynote session was delivered by Dr. Nattachote Rugthaicharoencheep from the University of Technology, Bangkok, Thailand. On Second day, keynote was delivered by Dr. Kenneth Eloghene Okedu , School of Information Technology and Engineering, from the Melbourne Institute of Technology, Australia.

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Highlighting our department dynamic events

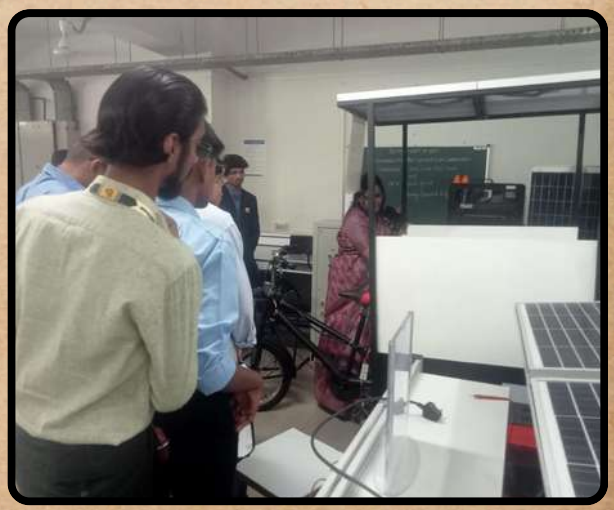
Visit by Gyansthan Education Services, Vadodora.

The visit was organized by SSN iFound to demonstrate the research work carried out at the EEE Department in the areas of Electric Vehicles & Renewable Energy systems on 7th March 2025.

Coordinator : Dr. R. Seyezhai, P/EEE

Ms. Rashi Ladha, Trainer and Coordinator at Gyansthan Education Services, along with a group of 30 engineering students from Vadodara, visited the EEE Department to explore the latest research activities being carried out.

The event commenced with an introduction of the visiting team by Dr. R. Seyezhai, Professor, EEE Department. This was followed by an insightful session led by **Dr. V. Rajini**, Head of the EEE Department, who provided an overview of the department's research facilities and key focus areas, particularly in Electric Vehicle (EV) technology.



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Highlighting our department dynamic events

During the visit to the High Voltage Laboratory, Dr. V. Rajini demonstrated the design and fabrication of electric motors for EVs, battery management systems (BMS), controllers, and high-voltage research equipment.

The students then proceeded to the Renewable Energy Conversion Laboratory, where **Dr. R. Seyezhai** showcased an electric bicycle and a three-wheeler powered by a BLDC drive. Additionally, demonstrations were conducted on Li-Ion battery management systems and a standalone solar PV system.

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Highlighting our department dynamic events

At the Solar Energy Research Lab, the students were introduced to the flywheel storage system, various solar PV array configurations, and power converter topologies by **Dr. R. Ramaprabha**, P/EEE. They also received a detailed explanation of gate drive circuits for different converter topologies. The session encouraged interactive discussions, allowing students to clarify their queries.

The visit concluded with an engaging interaction session, where students discussed cutting-edge advancements in electrical engineering and gained valuable insights into ongoing research initiatives.

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Highlighting our department dynamic events

Workshop on "CONTROL SYSTEM– THEORY TO PRACTICE"

The department of Electrical and Electronics Engineering organised a Workshop on "CONTROL SYSTEM – THEORY TO PRACTICE" during 21st & 22nd February 2025. The workshop was conducted by Dr. M. Senthilkumaran, Associate Professor/EEE, SSNCE, Dr. K. Murugesan, Associate Professor/EEE, SSNCE and Dr. R. Arun, Assistant Professor/EEE, SSNCE. The workshop was attended by UG students, research scholars and faculty members.

The control system concepts were demonstrated through the Aero Thrust Pendulum system. The modelling, system identification, feedback linearization, pole placement controller design, PI/PID controller design concepts were discussed and demonstrated.

Conveners
Dr. V. Rajini

Coordinators
Dr. M. Senthil Kumaran
Dr. R. Arun

EEE PULSE

Highlighting our department dynamic events

Two Days FDP on "Advanced Technologies in Smart Grid" (ATSG-2025)

The Department of Electrical and Electronics Engineering has organised Three Days Faculty Development Programme (STTP) on "Advanced Technologies in Smart Grid" (ATSG-2025) from 24th January 2025 to 25th January 2025 at the EEE Seminar Hall. The convenor of the STTP was Prof. V. Rajini, Professor and HOD, EEE. The FDP was co-ordinated by Dr. R.Leo, Associate Professor, EEE, Dr. Rajesh Panda and Assistant Professor, EEE,.

The total number of registered participants were 40. The STTP was attended by UG and PG students, research scholars, and faculty members. The STTP has exposed the participants to various advance technologies like AI, Machine Learning, Cyber physical System used in Smart grid and created an awareness about the technological changes happening Smartgrid which may help them in their future work.

On Day-1 (24.01.2025 Friday), the Forenoon Session began with a brief Inaugural Program followed by a talk by Dr. Sitharthan R, AP, Centre for Smart Grid Technologies, VIT, Chennai, TN on "Advanced technologies used in Smart grid Applications". In the Afternoon Session of the same day, Dr. G Suganya, Associate Professor, CSE, VIT, Chennai, TN has delivered a lecture on "Machine Learning for Electrical Engineering".

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On Day-2 (25.01.2025 Tuesday) the Forenoon Session talk was delivered by Dr Sasikumar P, Professor &Assistant Dean Academic Research, VIT, Vellore, on “Blockchain for Electrical Engineering”. In the Afternoon Session of the same day, Dr. G.Y Rajaa Vikhram, AP, EIE, SRM IST Kattangalathur, discussed about “Cyber Physical System for Electrical Engineering”.

Convener

Dr. V. Rajini, Professor and Head, EEE, SSN College of Engineering

Coordinators

Dr. Leo Raju, Associate Professor, EEE, SSN College of Engineering
Dr. Rajesh Panda, Assistant Professor, EEE, SSN College of Engineering

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Highlighting our department dynamic events

Two day workshop on “Reactive power compensation using Power World Simulator"

COORDINATOR: Dr. M. Devesh Raj, Associate Professor, Dr. R. Rengaraj, Associate Professor & Dr. G. R. Venkatakrishnan, Associate Professor

Department of EEE organized a workshop on "Reactive power compensation using Power World Simulator" on 10th & 12th March, 2025, at the System Simulation Laboratory. The workshop was intended for 3rd year U.G - EEE students and around 11 students attended the workshop.

The entire technical content, along with hands-on training in Power World Simulator was provided by Dr. M. Devesh Raj, Associate Professor. The workshop started at 8:15 a.m. on both days with a brief introduction about the power flow analysis and its various applications, followed by the demonstration using Power World software. Subsequently, the case-study based hands-on practice using Power World software for designing shunt compensators in transmission lines was provided. The workshop ended by 12:30 p.m with concluding remarks by the coordinator & feedback link circulated to the participants. The workshop was a great success as all participants expressed their sincere appreciation and their eagerness in participating similar events in the future.

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Highlighting our department dynamic events

Workshop on "Process of Innovation Development & Technology Readiness Level (TRL) and Commercialization of Lab Technologies"

The department of Electrical and Electronics Engineering in association with Institution Innovation Council (IIC), organised a workshop on “Process of Innovation Development & Technology Readiness Level (TRL) and Commercialization of Lab Technologies” on 24.01.2025. Dr.R.Seyezhai, Professor, Department of EEE delivered the lecture. The workshop was attended by UG students, research scholars and faculty members.

The session focused on the key aspects of product development, starting with the importance of building a Minimum Viable Product (MVP) by focusing on core functionalities and iterating based on user feedback. The need for clear goals, market understanding, and resource allocation was emphasized.

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The speaker introduced the MoSCoW principle for feature prioritization–Must Have, Should Have, Could Have, and Will Not Have–using a meal planning app as an example to illustrate its practical application. The speaker also outlined the product development steps, including ideation, design, testing, and iteration. The speaker also directed the discussion towards the concept of bridges in product development.

Faculty Coordinators

Dr. V. Rajini
Dr. R. Seyezhai
Dr. R. Ramaprabha
Dr. M. Balaji

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Highlighting our department dynamic events

Expert session on “Energy-Efficient Electric Drive Systems” towards National Energy Conservation Day Celebration

The department of Electrical and Electronics Engineering in association with ISTE chapter and Institution Innovation Council (IIC) organised an expert session on “Energy-Efficient Electric Drive Systems” for the National Energy Conservation Day Celebration on 25.01.2025. The lecture was delivered by Dr.S. Paramasivam, General Manager – R&D, ESAB India Limited, Chennai. The workshop was attended by UG students, research scholars and faculty members.

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The speaker highlighted the importance of energy conservation and emphasized how advancements in energy conservation could lead to significant cost savings and environmental benefits. He discussed the importance of electrical machines and power electronics in day-to-day life, and highlighted the research opportunities available in these fields to improve system efficiency. He also discussed the integration of renewable energy systems as a possible solution for energy conservation. Additionally, he briefly mentioned the career opportunities in these fields.

Conveners

Dr. V. Rajini
Dr. V. Kamaraj

Coordinators

Dr. R. Seyezhai
Dr. R. Ramaprabha
Dr. M. Balaji

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Highlighting our department dynamic events

Technical Talk on "Wireless Power Transfer: Technology and Applications"

The department of Electrical and Electronics Engineering organised a technical talk on "Wireless Power Transfer: Technology and Applications" on 10.03.2025. Dr. A. Bharathi Sankar, School of Electronics Engineering (SENSE) VIT Chennai delivered the lecture. The session was attended by UG students, research scholars and faculty members.

The session provided insights into the advancements, working principles, and various applications of wireless power transfer technologies. The merits and safety aspects of wireless power transfer technology were discussed. Real-world applications, including electric vehicle (EV) charging, medical implants, consumer electronics, and industrial automation, were explored during the session. The session also highlighted the role of power converters in wireless power transfer. Emerging trends such as dynamic wireless charging for electric vehicles and integration with IoT were also discussed. The participants interacted with the speaker on aspects such as energy efficiency, implementation costs, and the environmental impact of WPT.

Chairperson
Dr. V. Rajini

Conveners
Dr. R. Seyezhai
Dr. R. Ramaprabha
Dr. M. Balaji

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Highlighting our department dynamic events

Technical Talk on "Practical Approach and Design Aspects of Motor Control in Nuclear Application"

The department of Electrical and Electronics Engineering organised a technical talk on "Practical Approach and Design Aspects of Motor Control in Nuclear Application" on 28.02.2025. Shri. Sitangshu Sekhar Biswas, Scientific Officer- F, BHAVINI, Kalpakkam delivered the lecture. The workshop was attended by UG students, research scholars and faculty members.

The session focused on the control aspects of electric drives in nuclear application. The importance of vector control of induction motor was highlighted, emphasizing its ability to achieve precise torque and speed control, which is critical in nuclear applications. The concepts of vector control were elaborated to students explaining the principles of torque and flux control. The discussion also included the advantages of vector control over scalar control, particularly in terms of dynamic response and efficiency.

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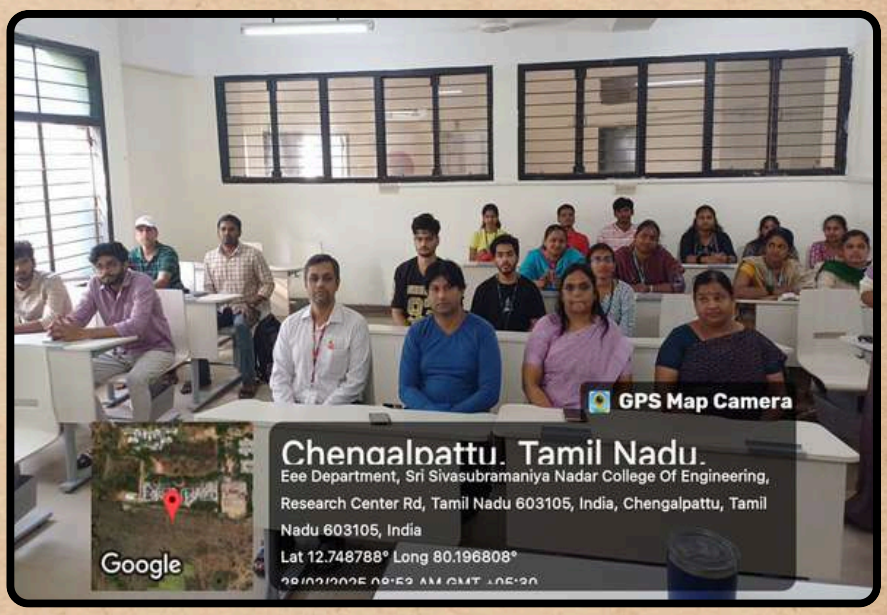
In addition to technical insights, the session highlighted various job opportunities in the field of electrical engineering. The speaker also encouraged students to explore entrepreneurship, highlighting the importance of innovation in emerging technologies and their potential for real-world applications.

Chairperson
Dr. V. Rajini

Conveners
Dr. R. Seyezhai
Dr. R. Ramaprabha
Dr. M. Balaji



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Highlighting our department dynamic events

Report on International Women's Day Celebration – 2025

Theme: Empowering Women in Tech: Breaking Barriers

Coordinators: Dr. R. Seyezhai, P/EEE, Dr. R. Ramaprabha, P/EEE & Dr. M. Balaji, ASSP/EEE

The IEEE-PELS Student Branch Chapter, in association with the Department of Electrical and Electronics Engineering (EEE) and IQAC, successfully organized the International Women's Day Celebration on 8th March 2025 at SSN College of Engineering (SSNCE). Around 60 participants were actively involved in this event. The event aimed to highlight the achievements of women in technology and encourage young women to break barriers in the tech industry. The celebration focused on empowering women in technology, recognizing their contributions, and motivating students and faculty members to foster an inclusive and diverse environment in STEM fields.

The event commenced with the rendition of Tamizh Thai Vazhthu by Ms. Vishnu Priya, a first-year M.E. PED student, followed by a warm welcome address by Ms. S. Devi, Research Scholar from the EEE Department. Dr. V. Rajini, Professor & Head, highlighted the significance of celebrating Women's Day, while Dr. R. Seyezhai, Professor, EEE, emphasized the relevance of the 2025 Women's Day theme: Accelerate Action. The event was honoured by the esteemed presence of Dr. N. Madurai Meenachi, SO/G & Head of the Training Section, and Dean of Student Affairs, HBNI, Indira Gandhi Centre for Atomic Research, Kalpakkam. Dr. Madurai Meenachi provided insightful perspectives on the pivotal role of women in advancing technology and research, shedding light on the challenges and opportunities for women in STEM fields. Dr. N. Venkateswaran, Prof/ECE & IQAC coordinator presented a memento to the chief guest.

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Key Highlights of the Event

1. **Inspiring Address by the Chief Guest:**
   - Dr. N. Madurai Meenachi shared her journey and experiences in the field of research and engineering, inspiring students, and faculty members to strive for excellence.
   - She emphasized the importance of breaking gender barriers in technology and encouraged young women to take up leadership roles in STEM.
2. **Recognition of Achievements:**
   - The felicitation ceremony honoured women achievers from SSNCE who have made significant contributions to research, academics, and industry collaborations.

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Dr. N. Madurai Meenachi was honoured for her exemplary contributions and unwavering commitment to research and development in Semantic Web and Knowledge Management. The recognition was conferred by the Head of the EEE Department in appreciation of her impactful work.

Dr. S. Radha, Principal & Senior Professor, was bestowed with the Lifetime Achievement Award in recognition of her outstanding dedication and invaluable contributions to teaching and research in the domains of Wireless Sensor Networks, IoT, and Sensors.

Dr. V. Rajini, Professor & Head, was felicitated for her exceptional commitment to education and research in Electrical Engineering.

Similar accolades were extended to distinguished faculty members for their pioneering work in their respective fields:

1. Dr. R. Jayaparvathy, Professor, for her expertise in Embedded Systems
2. Dr. R. Seyezhai, Professor, for her expertise in Power Electronics
3. Dr. R. Ramaprabha, Professor, for her contributions to Solar PV Systems
4. Dr. S. Tamilselvi, Associate Professor, for her work in Power Systems
5. Dr. K. Usha, Associate Professor, for her research in High Voltage Engineering
6. Dr. R. Deepalaxmi, Associate Professor, for her specialization in Power Electronics & Drives
7. Dr. S. Krishnaveni, for her contributions to Power Electronics & Drives
8. Dr. Rajasi Mandal, Assistant Professor, for her research in Renewable Energy Systems

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In recognition of their dedicated service and invaluable contributions to the EEE Department, supporting staff members Ms. Durgai Vadivu and Ms. Vani were also presented with a memento as a token of appreciation.

3. **AV Tribute:**
   - A short video presentation showcased the achievements of women in technology and engineering, both globally and at SSNCE.

4. Wall of Fame

The remarkable accomplishments of the Chief Guest, Principal of SSNCE, Head of the EEE Department, and esteemed women faculty members were proudly showcased in a distinguished exhibition, celebrating their outstanding contributions and ground-breaking achievements. This display served as a testament to the excellence, innovation, and impact of each individual, inspiring future generations to strive for greatness.

5. Interactive Surprise Events:
   - Research scholars from the EEE Department organized engaging activities and games related to women's empowerment in tech.

6. Networking and Knowledge Sharing:
   - The event provided a platform for students and faculty to interact with senior women leaders in the tech industry, fostering mentorship and collaboration opportunities.

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The event was meticulously orchestrated by the research scholars of the EEE Department, reflecting their exceptional leadership, precision, and dedication. Their seamless coordination and attention to detail elevated the experience, transforming the gathering into an inspiring and intellectually enriching celebration. Their efforts not only showcased their organizational prowess, but also set a new benchmark for excellence in academic event management.

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Highlighting our department dynamic events

National Level Workshop on "Hands-on Training in ESP 32 Microcontroller"

Department of Electrical and Electronics Engineering organized a National Level Workshop on "Hands-on Training in ESP 32 Microcontroller" during January 30-31, 2025 at Microprocessor Lab, EEE department, SSNCE.

Co-ordinators:
Dr. V. Rajini, Dr. R. Seyezhai, Dr. R. Ramaprabha, & Dr. M. Balaji

Overview:
The workshop aimed to provide participants with insights into the programming aspects of ESP 32 Microcontroller, facilitated by resource personnel from NISSI Engineering Solution Pvt. Ltd., Chennai. The objectives were to offer hands-on experience in working with ESP 32 Microcontroller, to enhance the programming aspects of microcontroller, and to provide a platform for networking and knowledge exchange among participants and industry experts. The workshop consisted of interactive sessions covering the programming aspects of ESP 32 Microcontroller

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Day 1 (Jan 30, 2025):
Introduction to ESP 32 Microcontroller, architecture and features, programming techniques, some simple applications (LED Blinking, Switch on and off - all hands-on using the apparatus provided by the NISSI team)

Day 2 (Jan 31, 2025):
Interfacing of sensors, ADC programming, basics of IoT (all hands-on using the apparatus provided by the NISSI team)

Highlights:

- Engaging presentations by experts from NISSI Engineering Solution Pvt. Ltd., Chennai, providing in-depth knowledge and practical insights into ESP 32 Microcontroller.
- Interactive hands-on training sessions allowing participants to apply theoretical concepts in practical scenarios.
- Networking opportunities for participants to connect with industry professionals and peers interested in processor technology.

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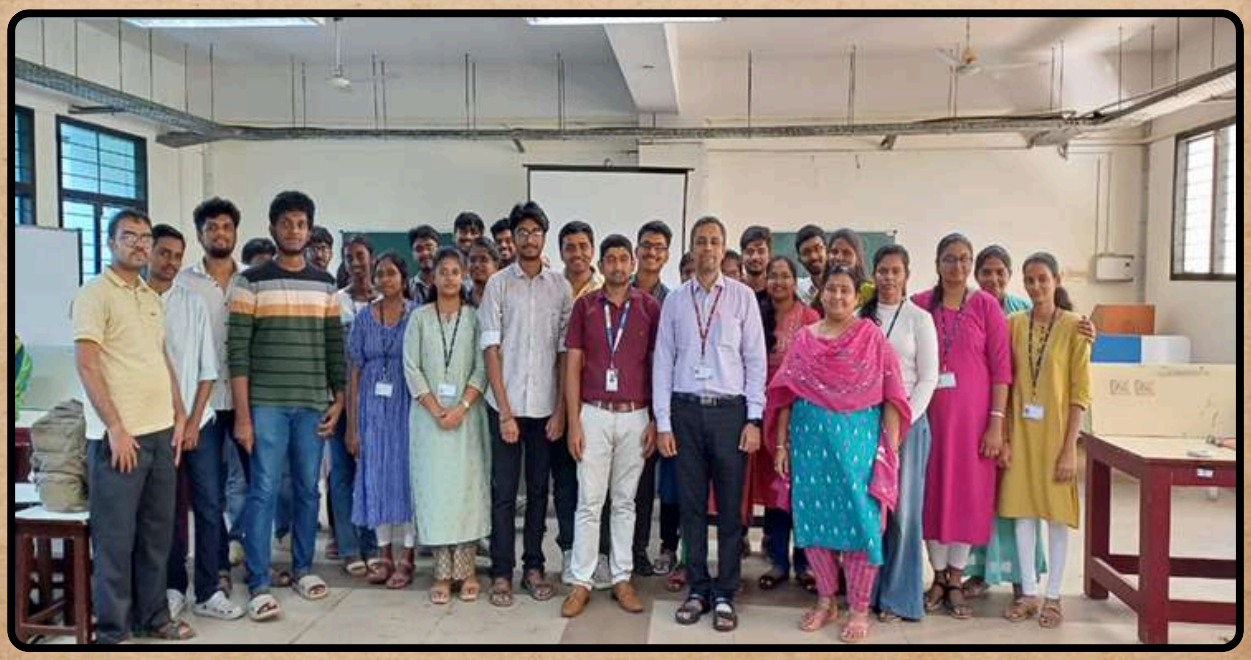
Feedback:

Participants expressed high levels of satisfaction with the workshop, highlighting its practical relevance and the expertise of the resource persons. They appreciated the hands-on approach and the opportunity to interact with industry professionals. The participants were interested in attending similar events in the future.



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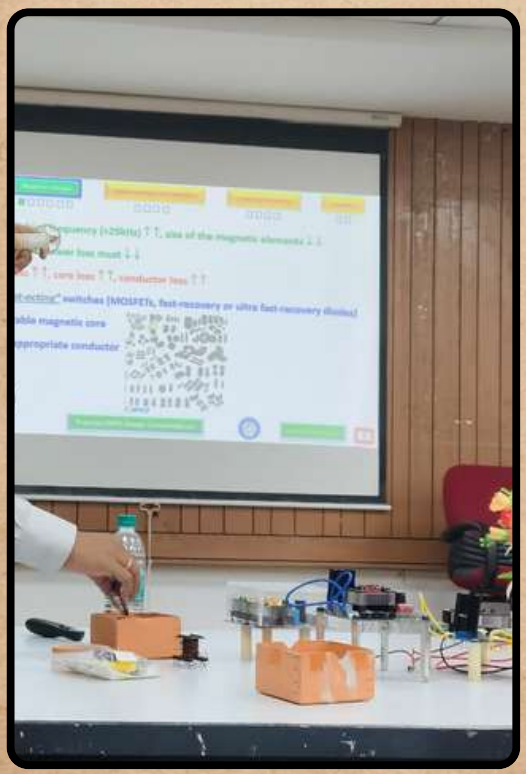
Highlighting our department dynamic events

Guest Lecture on "Practical SMPS Design Considerations"

Our EEE Department organized a guest lecture on Practical SMPS Design Considerations on February 24, 2025 at our EEE Seminar Hall. Dr. M. Prabhakar, Professor, School of Electrical Engineering, Vellore Institute of Technology, Chennai, delivered a lecture on this topic. The event saw 83 students from third year of the EEE department attended this guest lecture. He elaborated the design aspects of SMPS with practical demonstrations.

Conveners:
Dr. V. Rajini, Dr. V. Kamaraj

Co-ordinators:
Dr. R. Deepalaxmi



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Highlighting our department dynamic events

National Level Short Term Training Programme on Industry 4.0 : Transforming Technologies and Practices

The short-term training program on “Industry 4.0 : Transforming Technologies and Practices” was successfully conducted from February 20 to 22, 2025, at SSN College of Engineering. The event was organized by the Department of Electrical and Electronics Engineering (EEE) and was supported by the IEEE Power & Energy Society, Madras Chapter, and the Institution of Engineers (India) (IEI) Chapter. The program was powered by SHIELD SKILL HUB Subject Matter Experts, who brought industry expertise to bridge the gap between academic learning and real-world applications.

Conveners:
Dr. V. Rajini

Co-ordinators:
Dr N. B. Muthu Selvan
Dr V. Thiyagarajan

Inaugural Session
The event commenced with a welcome address by **Dr. N. B. Muthu Selvan**, Associate Professor, who highlighted the significance of emerging technologies in shaping the future of industries. He emphasized the importance of fostering a learning environment that integrates practical exposure with theoretical knowledge. The Chief Guest, **Mr. Sriram Hariram**, Chief Strategist and Founding Director of Shield Skill Hub, Chennai, addressed the participants on the topic of skill enhancement for students.

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He underscored the need for students to develop industry-relevant skills that align with the rapid advancements in Industry 4.0. His insights provided valuable guidance on how students can enhance their technical proficiency and adaptability to meet industry demands. The Guest of Honour, Mr. B. Murugavel, Leadership Team Manager at Atribs International and Shield International Group, Chennai, delivered an informative session on the course content of the short-term training program (STTP). He elaborated on how the program was designed to provide participants with hands-on training in advanced technologies and foster their professional growth in the evolving technological landscape. The event concluded with a vote of thanks by Dr. V. Thiyagarajan, Associate Professor, who expressed gratitude to the distinguished speakers, organizers, and participants for their enthusiastic involvement. He acknowledged the contributions of the IEEE PES Madras Chapter, IEI Chapter, and Shield Skill Hub in making the event a success.

Day 1 - February 20, 2025

Session Title: Immersive Technologies (AR/VR/XR/MR)

Speakers: Mr. Sathya Priyan – Co-Founder, Immersive Technologies
Mr. Mani – Team Member, Immersive Technologies

This session explored the impact of immersive technologies such as Augmented Reality (AR), Virtual Reality (VR), Extended Reality (XR), and Mixed Reality (MR) on Industry 4.0 and beyond. Discussions included real-world applications, advancements, and future trends in these domains.

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Day 2 - February 21, 2025 :

Session Title: Additive Manufacturing / 3D Printing

Speakers:

Dr. G. Senthil Kumar – Principal, SHIELD SKILL HUB

Er. Murugavel B – Chief Skills Officer, Wipro 3D

This session highlighted the transformative role of Additive Manufacturing (AM) and 3D Printing in MedTech, automotive, and aerospace industries. The speakers elaborated on the latest developments, industry applications, and the potential of these technologies in manufacturing and design.

Session Title: Embedded Systems / IoT

Speakers:

Sumathi C – R&D Expert, MAPe

Sundharam S – R&D Engineer

This was a hands-on session focusing on embedded sensor applications and testing methodologies for IoT-based solutions. Participants gained practical exposure to cutting-edge sensor technologies and their real-world applications.

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Day 3 - February 22, 2025 :

Session Title: Demystified ABC (AI - Blockchain - Cybersecurity)

Speakers:

Dr. Prakash Muthudoss – Senior Advisor, ICCW IITM
Dr. Shenbaga Raj R – Tech Head, SHIELD SKILL HUB
David – Cybersecurity Expert, SHIELD SKILL HUB

This session provided insights into the convergence of Artificial Intelligence (AI), Blockchain, and Cybersecurity—key pillars of digital transformation. Experts discussed real-time applications, innovations, and security concerns, emphasizing their significance in Industry 4.0.

Blockchain-Based Certification: A Historic First for SSN

This program introduced SSN College of Engineering's first-ever Blockchain-based certification, ensuring secure, verifiable, and tamper-proof credentials for all participants. This pioneering initiative sets a new benchmark for academic and professional credentialing, reinforcing SSN's commitment to technological excellence and innovation.

Conclusion

The short-term program successfully provided students, researchers, and industry professionals with in-depth knowledge and hands-on experience in emerging technologies. Experts from academia and industry collaborated to bridge the skill gap, equipping participants with real-world applications and future-ready competencies.

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Highlighting our department dynamic events

Guest Lecture on “Robotics”

The SSN IEEE Power & Energy Society (PES) Student Chapter organized an insightful guest lecture on "Robotics" on 20/02/2025. The event aimed to enhance students' knowledge of robotics, its applications, and the latest advancements in the field. The Chief Guest of the event was Dr. G. Renuka Devi, Associate Professor at the School of Engineering, Jawaharlal Nehru University, New Delhi.

The session commenced with a warm welcome address by Dr. V. Kamaraj, Professor, EEE, followed by an introduction of the chief guest. Dr. G. Renuka Devi captivated the audience with her in-depth knowledge and expertise in robotics. She discussed key topics such as:

· Fundamentals of robotics and automation
· Types of robots and their applications in industries
· Role of artificial intelligence and machine learning in robotics
· Challenges in robotic design and implementation
· Future trends and research opportunities in the field

The lecture was followed by an engaging interactive session in which students had the opportunity to ask questions.

Dr. Renuka Devi provided insightful answers and encouraged students to explore robotics as a field of research and innovation.

The event concluded with a vote of thanks delivered by Dr. V. Thiyagarajan, Associate Professor, EEE, expressing gratitude to Dr. G. Renuka Devi for her valuable insights and to the SSN IEEE PES team for organizing the session. The lecture provided students with a deeper understanding of robotics and motivated them to explore career and research opportunities in the field. The SSN IEEE PES extends sincere appreciation to the management, faculty members, and students for their support in making this event a grand success.

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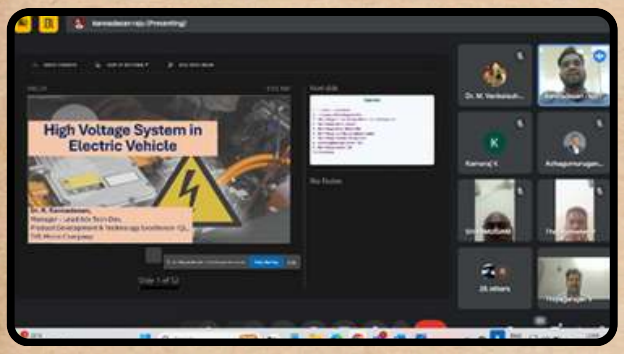
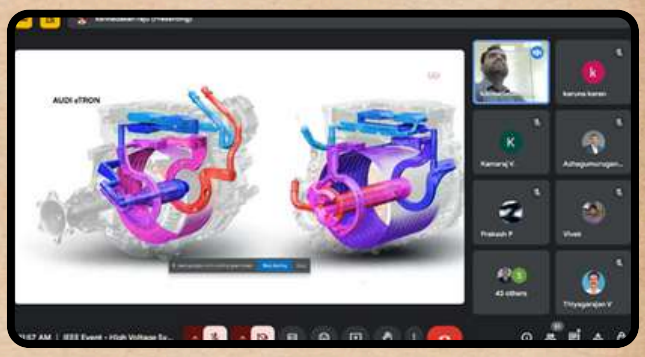
Highlighting our department dynamic events

National Level Seminar on "High Voltage System in Electric Vehicle"





The IEEE Power & Energy Society (PES) successfully organized a National Level Seminar on "High Voltage System in Electric Vehicle" on February 22, 2025. Dr. Kannadasan Raju was invited as the guest speaker. He is the Manager Lead of Adv Tech Dev, IQL - Product Development and Technology Excellence, TVS Motor Company. The seminar aimed to provide valuable insights into high-voltage systems used in electric vehicles, including their design, safety measures, and advancements in the field. The event witnessed enthusiastic participation from students, researchers, and faculty members.

The session began with a warm welcome address by Dr. V. Thiyagarajan, Treasurer, IEEE PES Madras Section followed by an introduction to the esteemed guest speaker, Dr. Kannadasan Raju. Special acknowledgment was given to the IEEE PES Madras Chapter committee, including:

Dr. M. Venkateshkumar – Chair, IEEE PES Madras Chapter
Dr. V. Kamaraj – Vice Chair, Research
Dr. R. Azhagumurugan – Vice Chair, Technical Activities
Dr. K. Palanisamy – Secretary

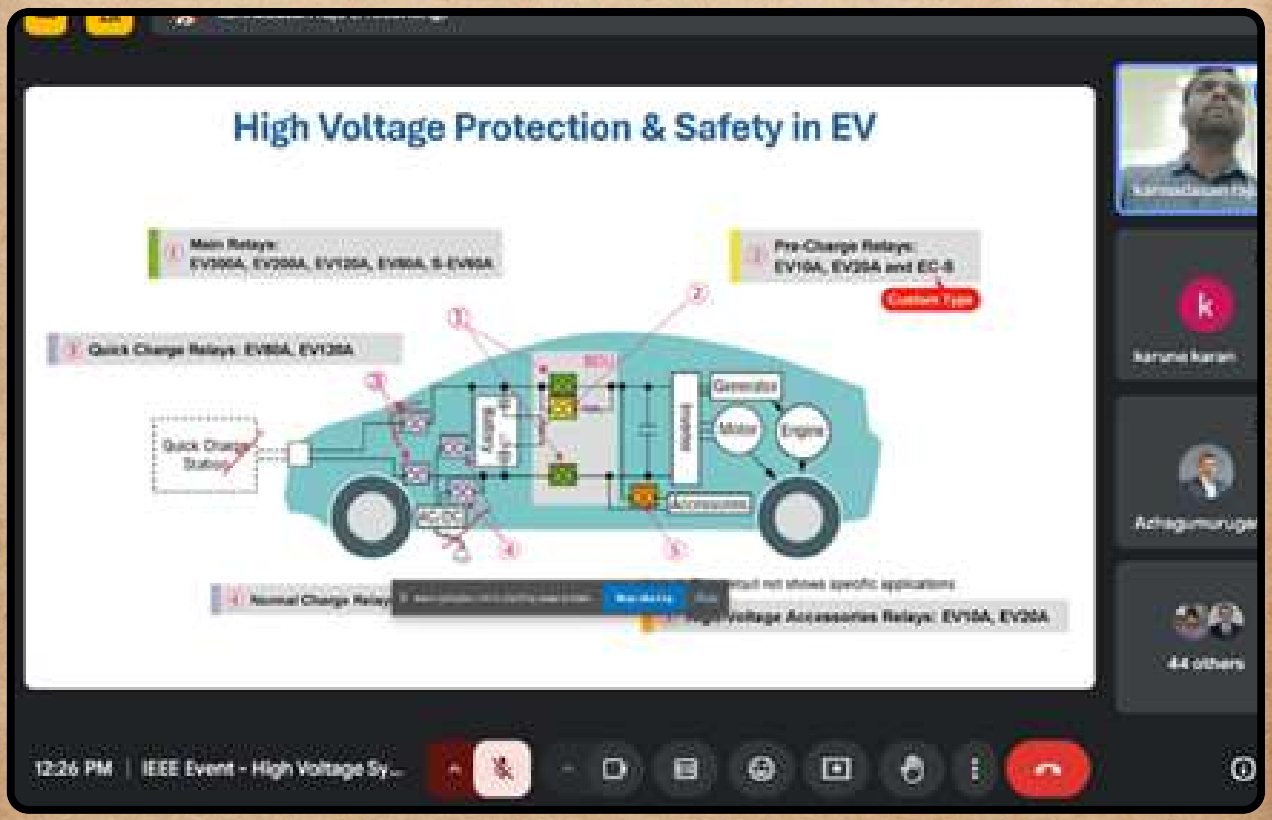
EEE PULSE

Highlighting our department dynamic events

The seminar covered key topics, which included:

- ·Fundamentals of high-voltage systems in EVs
- ·Battery management and power electronics in electric vehicles
- ·Safety challenges and risk mitigation strategies
- ·Future trends in high-voltage EV technology

Dr. Kannadasan Raju provided real-world case studies and industry insights, which enhanced the participants' understanding of the subject. The seminar featured an engaging Q&A session, during which the attendees had the opportunity to clarify their doubts and discuss emerging trends in electric vehicle technology. Dr. Kannadasan Raju addressed various queries and encouraged participants to explore research and career opportunities in this evolving domain.



EEE PULSE

Highlighting our department dynamic events

The seminar concluded with a vote of thanks delivered by Dr. M Venkateshkumar – Chair, IEEE PES Madras Chapter, expressing gratitude to Dr. Kannadasan Raju for his expertise and to the organizing committee for their efforts in making the event successful. The session provided a strong foundation for students and researchers interested in electric vehicle technology.

EEE PULSE

Highlighting our department dynamic events

Industry Expert Interaction and Project Review

The Department of Electrical and Electronics Engineering hosted an interactive project review session with Mr. Bharath Kumar, a distinguished alumnus from the 2016 PG batch and currently working at Collins Aerospace. Mr. Bharath is a Motors Design Engineer with over eight years of experience at prominent OEMs. He has demonstrated expertise in designing and developing high-performance motors for a wide range of applications. With a strong command of Permanent Magnet Synchronous Motors (PMSM), Switched Reluctance (SR), and wound-field motor technologies, he is skilled in addressing multi-physics dependencies and utilizing electromagnetic Finite Element Analysis (FEA) to optimize motor performance, efficiency, and reliability.

As part of the department's initiative to strengthen industry-academia ties, Mr. Bharath assessed various student projects. He offered constructive feedback on system design, scalability, and real-world applications, emphasizing the importance of industry-oriented project development. Mr. Bharath also encouraged students to stay updated with current technological trends and align their learning with real-time industrial needs. His presence and insights not only inspired the students but also reinforced the significance of alumni engagement in academic growth. The session proved to be a motivating experience, bridging classroom knowledge with industry expectations.

EEE PULSE

Highlighting our department dynamic events

EEE PULSE

Highlighting our department dynamic events

First Years Meet and Greet

The Department of Electrical and Electronics Engineering organized an interactive session for first-year students on March 8, 2025, to welcome them into the EEE community and provide them with valuable guidance. The event aimed to bridge the gap between new students, faculty, and senior peers. Faculty members introduced the department's vision, academic structure, and opportunities available in EEE, including clubs, technical events, and research projects. Senior students shared their personal experiences, tips on effective learning, project involvement, and how to balance academics with extracurricular activities. The session encouraged open dialogue, with first-year students actively engaging in discussions and clarifying their doubts. It created a warm and inclusive environment, helping students feel more connected and confident. The session concluded with a Q&A round and words of motivation from the Head of the Department. Overall, the event fostered camaraderie and set a positive tone for their academic journey.

EEE PULSE

Highlighting our department dynamic events

CII Automotive Electrical and Electronics Summit at ITC

Dr. Leo Raju, Dr. Sajjan Kumar, and Dr. Raman Balireddy from the Department of Electrical and Electronics Engineering attended the CII Automotive Electrical & Electronics Summit at ITC Grand Chola on 26th February 2025. The summit focused on the latest trends in automotive electrical and electronics technologies, including electric vehicles and battery innovations, offering opportunities for networking and exploring industry advancements.

EEE PULSE

Highlighting our department dynamic events

6th National Conference on Recent Trends in Power and Energy Engineering

Conference Chair:
Dr.V.Rajini (HoD)

Organizing Chair:
Dr.S.Tamil Selvi
Dr.K.K.Nagarajan
Dr.V.S.Nagarajan

The National Conference on "Recent Trends in Power and Energy Engineering - 2025," held at Sri Sivasubramaniya Nadar College of Engineering, Chennai, on March 18 and March 19 served as a vibrant platform for knowledge sharing and innovation in the power and energy sector.

The event began with an inaugural session followed by a keynote address by **Dr.G.Balamurali**, Executive Engineer, **TANTRANSCO**, who discussed challenges and opportunities in power infrastructure.

The conference featured three paper presentation sessions spread over two days, showcasing a wide range of research topics including smart agriculture, electric vehicles, IoT in energy, machine learning applications, and sustainable energy systems. Distinguished academicians from SSN chaired the sessions, while students and scholars presented innovative

EEE PULSE

Highlighting our department dynamic events

solutions like real-time air quality monitoring, smart irrigation, predictive maintenance systems, and advanced inverter topologies for renewable applications.

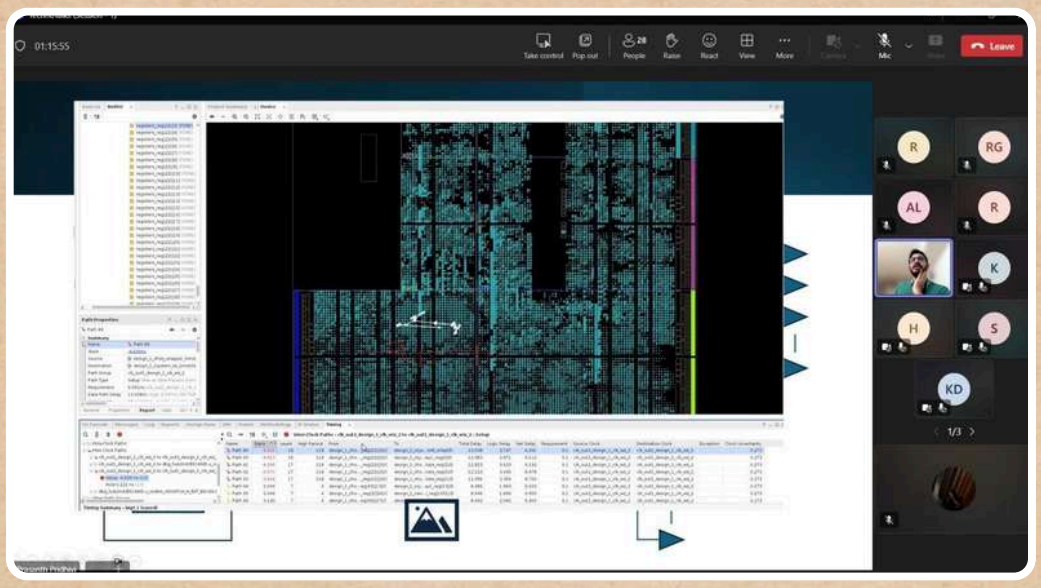
On the second day, Mr. Ganesh Nagarajan, Technologist at Royal Enfield, delivered a keynote address highlighting the latest trends in electric vehicles. The conference concluded with dynamic discussions and fruitful interactions between participants and experts.

Overall, **RTPEE 2025** was a successful and enriching experience that encouraged interdisciplinary collaboration, inspired young minds, and emphasized the importance of technological advancements in the energy sector.

EEE PULSE

Highlighting our department dynamic events

IEEE PELS: SoC & FPGA Verification Tech Talk



The IEEE Power Electronics Society (PELS) hosted an online session on February 5, 2025, at 8:00 PM via Microsoft Teams. The session aimed at providing valuable knowledge to the participants on FPGA, digital design, and career opportunities in the field.

The event commenced with a warm welcome by the Dr. Seyezhai Ma'am, who introduced the session and provided a brief overview of the topic. Following the introduction, the guest speaker our alumini Prasanth Prithvi, was introduced. Goutham and Keshavraj also took the opportunity to welcome both the guest and the participants, setting a friendly and engaging tone for the session.

Prasanth, presented an in-depth session on Field-Programmable Gate Arrays (FPGA), covering various aspects of digital design and the FPGA design cycle.

EEE PULSE

Highlighting our department dynamic events

He explained how digital design works, the importance of the design cycle, and the specific role of FPGAs in modern technology.

The presentation also delved into career guidance in FPGA-based design, with Prasanth highlighting the industry's growing demand for skilled professionals in this area and the emerging trends in the field.

Towards the end of the session, Anshul moderated a Q&A session, addressing questions raised by the participants. He ensured that the audience's queries regarding FPGA, design processes, and career prospects were thoroughly answered, engaging the crowd with thoughtful responses from the speaker.

The session was a valuable learning experience for all attendees, providing them with a deeper understanding of FPGA technology and the career pathways within the industry.

EEE PULSE

Highlighting our department dynamic events

Department Bytes

Dr.V.Rajini, HoD, participated in a strategic discussion held at **Ashok Leyland**, Ennore. The meeting focused on key updates and collaborative alignment, contributing to ongoing industry-academic engagement efforts.

Dr. Rajesh Panda & **Dr. Raman Balireddy** attended the CII Workshop Series: **Unlocking Green Growth: C&I as Catalysts for Energy Transition**, held at the Hotel Ramada Plaza in Chennai, Tamil Nadu, on February 18, 2025.

Dr.R.Seyezhai, **Dr.R.Leo** & **Dr.R.Ramaprabha** attended an International Conference on Advances in **Renewable Energy& Electric Vehicles (AREEV-2025)** held on 6th & 7th February 2025 at NMAM Institute of Technology, Nitte, Karnataka.


Instincts '25
MARCH 13, 14, 15
TIMELESS TALES

INSTINCTS CHRONICLES

Overview of our grand cultural festival

SSN College of Engineering and Shiv Nadar University Chennai (SNUC) jointly hosted the **20th edition** of Instincts, their annual cultural extravaganza, with unparalleled enthusiasm and grandeur. This milestone event brought together students from various colleges, offering a vibrant platform for talent, creativity, and competition. Over three days, the festival showcased a diverse range of cultural, literary, and technical events, culminating in breathtaking performances and entertainment.

The event was graced by esteemed dignitaries including **Dr. Kala Vijayakumar (President, SSN & Pro-Chancellor, SNUC), Prof. S. K. Bhattacharyya (Vice-Chancellor, SNUC), Dr. S. Radha (Principal, SSNCE), and Dr. Sunita Nair (Advisor, Student Affairs, SSN & SNUC)**. The Inauguration Ceremony was made even more special with the presence of actor **Kalidas Jayaram**, whose inspiring address and charismatic presence added star power and excitement to the opening moments of the festival.

INSTINCTS CHRONICLES

Overview of our grand cultural festival

The first day of the fest commenced on a grand note with the formal **Inauguration** held at the SSN Main Auditorium. Kalidas Jayaram, with his lively speech and friendly charm, set an uplifting tone for the rest of the event. Following the inauguration, students from SSN and SNUC enthusiastically took to the stage for the **Student Variety Show,** presenting a diverse mix of talent including musical performances, skits, stand-up comedy, and more.

This event was a lively celebration of student creativity and community spirit. As the day turned to evening, the campus buzzed with excitement as **Choreonite** took center stage. This high-energy dance competition witnessed teams from across Tamil Nadu performing a wide range of dance styles, from classical to hip-hop and folk. The audience was treated to a night of stunning choreography, teamwork, and contagious energy, setting a vibrant tone for the rest of the fest.

INSTINCTS CHRONICLES

Overview of our grand cultural festival

The second day carried forward the artistic flair with a focus on cinematic creativity and cultural roots. The **SSN Film Club and SNUC Montage** collaborated to organize **Reels of Fire**, a short film contest that featured a series of compelling student-made films. These films, shown throughout the day, tackled a variety of themes including social issues, personal growth, and humor. The event concluded with an awards ceremony recognizing the most impactful works.

As twilight approached, the cultural space near the central fountain came alive with **Fire Silambam, organized by the Saaral Club**. This traditional martial arts performance combined precision, rhythm, and fiery visuals to the awe of the crowd. The crackling fire, synchronized spins, and powerful movements created a mesmerizing visual spectacle.

Later that evening, the mood turned magical with a soul-stirring live performance by the renowned singer **Shakthisree Gopalan** on **Proshow**. Her melodious voice filled the air, enchanting students who sang along, swayed to the music, and soaked in the vibe. Her concert was undoubtedly one of the highlights of the festival, creating lasting memories for all present.

INSTINCTS CHRONICLES

Overview of our grand cultural festival

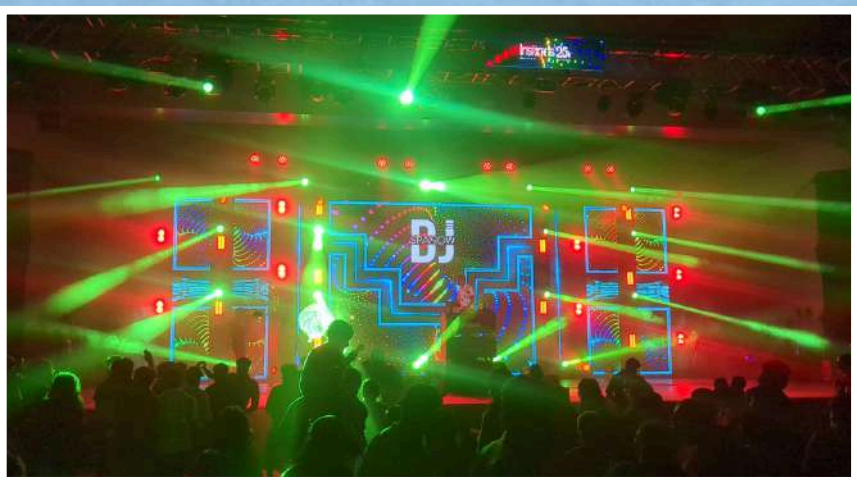
The final day of Instincts 2025 kicked off with a fun yet intellectually stimulating **Pattimandram,** hosted by the **Saaral Tamil Mandram** in the Main Auditorium. The lively debate featured witty speakers engaging in humorous and thought-provoking discussions on topics relevant to today's youth. The audience responded with enthusiasm, laughter, and applause, making it a delightful event. As evening descended, thrill took over with an adrenaline-filled **Bike Stunt Show held in front of the main fountain area**. Professional stunt riders wowed the crowd with daring maneuvers including wheelies, flips, and complex stunt sequences.

The energy remained high as the **Lantern Fest** began in the CT block**.** Students released glowing lanterns into the sky, creating a stunning visual display symbolizing hopes, dreams, and bittersweet farewells–especially for final-year students. It was a deeply emotional and reflective moment. **The festivities concluded with an electrifying DJ Night, where students gathered to dance, celebrate, and let loose. The beats, lights, and energy brought everyone together for one final night of fun, laughter, and shared memories.**

INSTINCTS CHRONICLES

Overview of our grand cultural festival

In conclusion, **the 20th edition of Instincts** was not just a cultural festival but a celebration of youth, unity, and vibrancy. It showcased the boundless talent and dedication of the student community of SSN and SNUC. From tradition to technology, from soul-stirring melodies to stunt shows, every event reflected a spirit of passion and excellence. Instincts 2025 will be remembered not only for its grandeur but also for the strong sense of togetherness it fostered among students, faculty, and guests. As the music fades and the lights dim, the memories created will continue to resonate and inspire the editions to come.



CAMPUS BUZZ

Witnessing vibrant programs in our campus

NSS Annual Camp 2025

(16th - 22nd February)

-Hemalatha G V
2nd year

The NSS Unit of SSN College organized the Annual Camp at Sembakkam village near Thiruporur, with an engaging start as volunteers were divided into multiple teams, each assigned to visit households and gather essential information about the residents. The survey included details such as personal, educational, and financial status. Volunteers also documented the presence of physically challenged members, participation in self-help groups, availability of toilets, and school dropouts. The residents were welcoming and cooperative, allowing the teams to collect valuable data that would help assess the community's needs. After regrouping, the volunteers discussed their findings, highlighting concerns such as sanitation, transport, water facilities, and infrastructure.

The second day of the camp saw volunteers focusing on renovating the elementary school's compound wall by whitewashing and making repairs. Despite challenging weather conditions, the teams worked diligently, ensuring the task was completed with dedication.

Simultaneously, another group interacted with school children, organizing fun-filled games and activities that fostered learning and creativity. The student's enthusiasm strengthened the bond between them and the volunteers, making the experience more meaningful.

Continuing with the beautification of the school, the third day was filled with creativity as volunteers painted and decorated the walls with colorful designs and educational illustrations. Their efforts turned the school into a more vibrant learning space, with students eagerly contributing ideas for the wall drawings.

The fourth day combined painting with a crucial construction task, as volunteers assisted a skilled mason in rebuilding a damaged compound wall to ensure the safety of students. Additionally, a road safety awareness session was conducted by **Rajangam IPS**, Inspector at Thiruporur Police Station, providing students with valuable insights on traffic rules and precautions. Another exciting activity introduced was the Foldscope session, which sparked scientific curiosity among the children.

On the fifth day, volunteers whitewashed and added artistic touches to the school walls. A major highlight of the day was the science experiment session, where students enthusiastically participated in hands-on activities that introduced them to scientific principles in a fun and interactive way. Later, the volunteers held a discussion on Sustainable Development Goals (SDGs), emphasizing the impact of community-driven initiatives in achieving long-term sustainability.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

Environmental consciousness took center stage on the sixth day, with volunteers making seed balls to be dispersed around nearby lakes, promoting green cover and ecological balance. While continuing the painting work, they also held a group discussion on social and environmental issues, exchanging ideas on solutions and community involvement. A rally walk through the village spread awareness about nature conservation, encouraging residents to adopt sustainable practices. Tree planting within the school campus was another significant step towards creating a healthier environment for future generations.

The final day, February 22, 2025, marked the conclusion of the camp with a Valedictory Ceremony attended by village dignitaries, local officials, and faculty members. The event included speeches from NSS volunteers, ward councillors, and the NSS Program Officer, reflecting on the week's experiences and the impact created. The ceremony opened with the Tamil Thaai Vaazhthu and concluded with the Indian National Anthem, fostering a sense of pride and unity. A feedback session allowed volunteers to share their key takeaways, emphasizing the significance of teamwork, gratitude, and community service.

The camp was truly a once-in-a-lifetime experience, teaching the volunteers the value of minimalism and gratitude. It reinforced the importance of empathy and compassion, particularly in boosting the confidence of government school students and helping them overcome any inferiority complex. The NSS camp was not just a service initiative but a journey of learning and personal growth, instilling in every volunteer the spirit of giving and the joy of making a difference.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

Apex Racing Club's Triumph at the National Go-Kart Endurance Event

SSN College of Engineering | Conducted by AIMS at RVS Technical Campus, Coimbatore & CoASTT High Performance Centre

Racing is more than just speed–it's a blend of innovation, passion, and the resilience to overcome the unexpected. The Apex Racing Club from SSN College of Engineering took on the national go-kart endurance event with an unyielding spirit, proving that every twist, turn, and setback is part of a larger journey toward excellence.

Engineering Precision: Technical Inspection

Our journey kicked off with a rigorous technical inspection. Every bolt, circuit, and component was meticulously checked, showcasing our unwavering commitment to engineering excellence. With our design engineers ensuring that every detail met stringent standards, our kart was primed and ready for the challenges ahead.

Dynamic Events: Racing Under Pressure

After clearing the technical hurdles, we dove into the dynamic events with full force. Our team's synergy shone on the track – each lap a perfect balance of strategy and skill. Deva Prasad led the charge with calm focus, guiding us through every twist and turn. Ari Adaikalam provided precise technical oversight, ensuring our maneuvers were executed with pinpoint accuracy. Aravindhan R injected creativity into our design, inspiring bold and innovative moves on the track. Every second on the circuit echoed our determination as we embraced rapid accelerations, razor-sharp turns, and flawless brake tests.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

Innovation Recognized: The Go-Green Award

At the heart of our success lies our commitment to sustainable engineering. Led by Rohith V and Sarvesh Baskar, our visionary innovators, we proudly earned the prestigious Innovation & Go-Green Award. This accolade celebrated not only our technical prowess, but also our dedication to integrating eco-friendly solutions into high-performance racing, paving the way for a greener future in motorsports.

Endurance Round: A Day of Triumph and Challenge

The endurance round was designed to push our limits – and it delivered, bringing both triumph and adversity. In a true test of machine and mettle, our kart faced a severe challenge when the steering mechanism jammed. This unexpected malfunction led to a crash into a fence, causing damage to the fuel tank mount and bumper. It was a heartbreaking setback, yet in that very moment, the true spirit of our team shone through. United and undeterred, we proved that even in the face of unforeseen obstacles, resilience and determination are our greatest strengths.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

Reflections: The Heart of a Champion

Every phase of this event, from the meticulous technical inspection to the electrifying dynamic rounds, and even the unforeseen crash, has woven an enduring tapestry of passion, innovation, and grit. Our sixth-place finish is not merely a placement; it's a tribute to our collective effort, the lessons learned, and the spirit that propels us forward. We celebrate not only our achievements, but also the challenges that inspired us to rise stronger with every lap.

A New Dawn: The Apex Racing EV Edition

When sustainability soared, so did our vision for the future. Enter the Apex Racing EV Edition – a revolutionary leap into eco-friendly motorsports. Spearheaded by our new captain of the ship, Ari Adaikalam, this EV edition embodies our commitment to a greener, more innovative era. With cutting-edge electric technology and the same fearless spirit that defined our journey, we're racing toward a future where excellence meets sustainability.

APEX RACING

CAMPUS BUZZ

Witnessing vibrant programs in our campus

ASH LEAGUE'2025

-Harsha Vardhan R
2nd year

The Ash League 2025 ignited the Hostel Cricket Ground with an electrifying and action-packed season, showcasing six elite teams' exceptional talent, strategy, and sportsmanship. From February 17th to 25th and March 6th to 9th, the 13-day tournament featured 24 thrilling matches. Each 2-hour match, held from 4:00 PM to 7:00 PM, created an intense atmosphere under the lights. The excitement began with the auction, where 9 bidding groups vied for ownership of the six teams, setting the stage for a fiercely competitive tournament.

Maiyyam Knowledge and Careers, Coimbatore, amplified the tournament's grandeur as the Title sponsor, fueling the teams' spirit and enthusiasm. Each of the six teams proudly showcased their unique identities through vibrant colors and logos. Sportium Crusaders (SP) donned lavender and orange, symbolized by an eagle, under Kishore S P's leadership. Clock Tower Night Riders (CTNR) sported dark blue and silver, represented by a horse, with Vishva at the helm. The other teams included Ghost Road Hunters (GRH) in pink and yellow, Open Air Titans (OAT) in green and dark blue, Fountain Sharks (FS) in light blue and white, and MC Chargers (MCC) in crimson red and gold, each with their distinct emblem.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

The league stage saw some impressive performances. Fountain Sharks (FS) dominated, winning all 7 matches with a remarkable +3.872 net run rate. Clock Tower Night Riders (CTNR) thrilled fans with 4 wins in 6 matches (+2.344 NRR), while Open Air Titans (OAT) showed strategic prowess with 4 wins in 5 matches (+1.457 NRR). MC Chargers (MCC) had mixed results, securing 2 wins in 6 matches (-1.127 NRR). Ghost Road Hunters (GRH) fought hard but managed only 1 win in 6 matches (-2.372 NRR), while Sportium Crusaders (SP) demonstrated exemplary sportsmanship despite not securing a win (-4.662 NRR).

The final match was a nail-biting contest, with Clock Tower Night Riders (CTNR) emerging victorious over Fountain Sharks (FS), ending their winning streak and securing the championship with a clinical performance. CTNR's composure and strategic adaptability proved decisive. The tournament saw several standout performances. Subash R (FS) was named Man of the Tournament for his consistent match-winning performances. Meiyarasan (OAT) was recognized as the Best Captain of Ash' League 2025. The Orange Cap for most runs was awarded to Karthik Villiers (FS), who scored 139 runs at an average of 19.86 and a strike rate of 91.45. Subash R (FS) claimed the Purple Cap for most wickets, taking 14 wickets at an economy of 2.55 and an average of 3. Exceptional fielding performances were also recognized. Akash S (OAT) and Natarajan S (FS) both secured 9 dismissals, while Vishnu (MCC) made a significant contribution with 6 dismissals and 7 catches.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

The Ash League 2025 was a resounding success, showcasing exceptional cricketing talent, sportsmanship, and teamwork. Daily Man of the Match medals were awarded to outstanding performers, with Meiyarasan (OAT), Hari (CTNR), and Subash R (FS) being frequent recipients. Sportium's teams deserve special recognition for their dedication, teamwork, and sportsmanship, demonstrating remarkable growth and resilience. The tournament's success was marked by thrilling matches, outstanding performances, and a spirit of unity among teams and fans. The Ash League 2025 highlighted the importance of strategy, adaptability, and mental strength in achieving success.

Congratulations to Clock Tower Night Riders (CTNR) on their well-deserved championship and to individual award winners for their remarkable contributions. The champions received a cash prize of ₹12,000, a rolling trophy, and gold medals, while the runners-up received ₹7,000 and silver medals. The Ash League 2025 stands as a testament to the power of sport in bringing together diverse talents and creating moments of excellence and inspiration.

Score Cards : https://cricheroes.com/tournament/1334289/ash-league-2025/matches/past-matches

Detailed Leader-board: https://cricheroes.com/tournament/1334289/ash-league-2025/leaderboard

CAMPUS BUZZ

Witnessing vibrant programs in our campus

MELA'25

Meet and Greet our department stall owners at Mela'25 !!!!

SNACKATHON

Snackathon! One of the most memorable experiences of our college life, it was more than just a stall–it became a beautiful memory that we, the Tea Kadai Boys, will always cherish. Being a part of MELA 2025 was a true pleasure and a proud moment for all of us. Our stall menu had a delightful range, from Paal Sarbath to Paal Pudding, including Pani Poori, Thattu Vadai, Kuzhi Paniyaram, Badam Milk, Rose Milk, and Halwa. Among these, Thattu Vadai and Kuzhi Paniyaram received the highest praise and were in great demand.

The response from the crowd was overwhelmingly positive, and it wouldn't have been possible without the incredible support and hard work of our 19-member crew: Kalaiyarasan, Gokul, Dineshkumar, Akshai Kumar, Dhanushram, Giridharan, Hari Prasath, Saravanan, Vignesh, Mohan, Prakash, Jegadeeshwaran, Kavin, Atchay Kumar, Badri, Sharvesh, Ashwin, Harshavardhan, and Dhanush Priya. Each one of them was a pillar of strength, contributing tirelessly from the day we registered. In the end, SNACKATHON was not just about serving snacks–it was a celebration of teamwork, dedication, and unforgettable memories.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

MELA'25

Meet and Greet our department stall owners at Mela'25 !!!!

JIGARTHANDA SAMBAVA CLUB

Driven by a sudden idea, a group of around 25 friends formed the "**Jigarthanda Sambava Club**" and secured a last-minute stall at a mela. They decided to sell **Madurai's famous jigarthanda**, along with rose milk, ice cream gulab jamun with ice cream, and a special jigarthanda ice cream. Overcoming initial logistical challenges of transporting the goods from Madurai to Kilambakkam with a friend's car, they faced skepticism from customers who doubted the authenticity of their Madurai imports, which they countered by playing a video of the unloading process.

Their success was attributed to strong teamwork, effective marketing within their campus, attractive stall decoration done by the girls with quote-written cups, homemade gulab jamuns, and dedicated tasks for the boys. Despite initial nervousness, their jigarthanda sold out within three hours, leading to a peak in customers and positive feedback, documented on their Instagram handle jigarthanda_sambava_club. They concluded the mela with good profits and cherished memories.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

MELA'25

Meet and Greet our department stall owners at Mela'25 !!!!

KAIPULLA KALAN KADAI

Participating in this year's Mela was a long-awaited and fulfilling experience for our team. We are currently in our 3rd year, and ever since our 1st year, we've had the dream of setting up our own stall at Mela. We set up a food stall called "Kaipulla Kalan Kadai", where we served Kalan, a much-loved local street food. Right from designing the stall to preparing the food and interacting with customers, every step was a learning curve. We were overwhelmed by the positive response we received—many people appreciated the taste and came back for second servings!

This experience not only gave us a platform to showcase our culinary skills but also helped us understand the basics of running a small business—budgeting, marketing, teamwork, and time management. We successfully recovered our initial investment and made a decent profit, which made all the effort feel worth it.

More than just selling food, we enjoyed engaging with people, managing a crowd, and handling real-time challenges, which gave us a small taste of entrepreneurship. We're already looking forward to doing it all over again next year!

CAMPUS BUZZ

Witnessing vibrant programs in our campus

MELA'25

Meet and Greet our department stall owners at Mela'25 !!!!

Tricky Treats

Mela 2025 was more than just a one-day event, it was a celebration of culture, creativity, and community spirit. With 87 vibrant stalls lighting up the venue, the entire space buzzed with excitement, laughter, and a wonderful mix of aromas from all kinds of food and snacks. We at Tricky Treats were thrilled to be a part of this grand event, offering one of India's most beloved street foods–Pani Puri.

We knew from the start that the competition would be tough. Five different stalls were serving pani puri, each with its own twist. But instead of feeling overwhelmed, we saw it as a challenge and an opportunity to showcase what made Tricky Treats different. From our tangy flavored water to our crisp puris and freshly prepared fillings, we focused on quality, taste, and connection with each customer.

To our delight, the response was overwhelming! Throughout the day, we had a steady flow of visitors–some curious, some craving a familiar taste, and others who came back after their first plate, bringing their friends along.

By the end of the event, we had served around 200 plates of pani puri—a number that exceeded our expectations, especially considering the tough competition. It was truly heartwarming.

"I've tried almost every stall here, but yours hits differently. The flavor feels like home!" – said one of our customers, smiling between bites.
"I was just passing by, but the crowd around your stall made me stop. So glad I did!" – another happy visitor shared.

The joy on people's faces, the satisfied nods after the first bite, and the excited chatter around our stall were more rewarding than any numbers. Every compliment, every thumbs-up, and even the little kids dragging their parents to our stall—it all reminded us why we love doing this.

More than just selling food, we felt like we were creating moments—little pockets of joy in the midst of a lively mela. Whether it was the college students laughing over spice challenges or families enjoying their evening out, we were grateful to be a part of their memories.

Mela 2025 will always hold a special place in our hearts. It taught us the value of standing out through passion, consistency, and human connection. We're incredibly thankful to the organizers, fellow stall owners, and every single person who visited Tricky Treats.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

MELA'25

Meet and Greet our department stall owners at Mela'25 !!!!

VIBRATOR 2.0

"Vibrator 2.0 made its much-awaited comeback at Mela '25 after last year's hit! Packed with fun games and high-energy vibes, the shop drew in crowds, sparked laughter, and turned out to be both entertaining and rewarding!"

FIRST MOVE

"We tried something new with First Move at Mela, and it turned out to be a super hit! With fun-filled games and exciting activities, the shop quickly became a crowd favorite, bringing in nonstop energy and smiles all around!"

CAMPUS BUZZ

Witnessing vibrant programs in our campus

MELA'25

Meet and Greet our department stall owners at Mela'25 !!!!

VADIVU CHARMS & CO

"We had relaunched Vadivu charms and co for Mela '25 owing to the previous year's success. This time, our team of seven had a fantastic time promoting, customizing, and, of course, making money!"

TWIN TACOS

"Twin Tacos was a total crowd-puller! Happy that customers liked our delicious tacos, brownies with ice cream, and crunchy nachos,all the foodies were a super hit and customes were lining up non-stop for a taste of the goodness!"

CAMPUS BUZZ

Witnessing vibrant programs in our campus

MELA'25

Meet and Greet our department stall owners at Mela'25 !!!!

KISSIK PHOTOCARDS

The Kissik stall was centered around selling posters and photo cards, attracting a large crowd and generating substantial profits. We featured A4 and A3 posters, along with mini Polaroids, which especially captivated the audience.

KADALKANNI'S

What started as a simple idea between roommates turned into a thriving venture at our college mela. We launched Kadalkanni's as an accessory shop and later introduced Polaroids, both of which sold out in no time! Many customers came looking for accessories they had spotted on Instagram, and the positive feedback on our high-quality products was overwhelming. We had a blast marketing, making reels, and interacting with everyone. The excitement and love we received have inspired us to come back next year.

CAMPUS BUZZ

Witnessing vibrant programs in our campus

MELA'25

Meet and Greet our department stall owners at Mela'25 !!!!

MINI DELIGHT

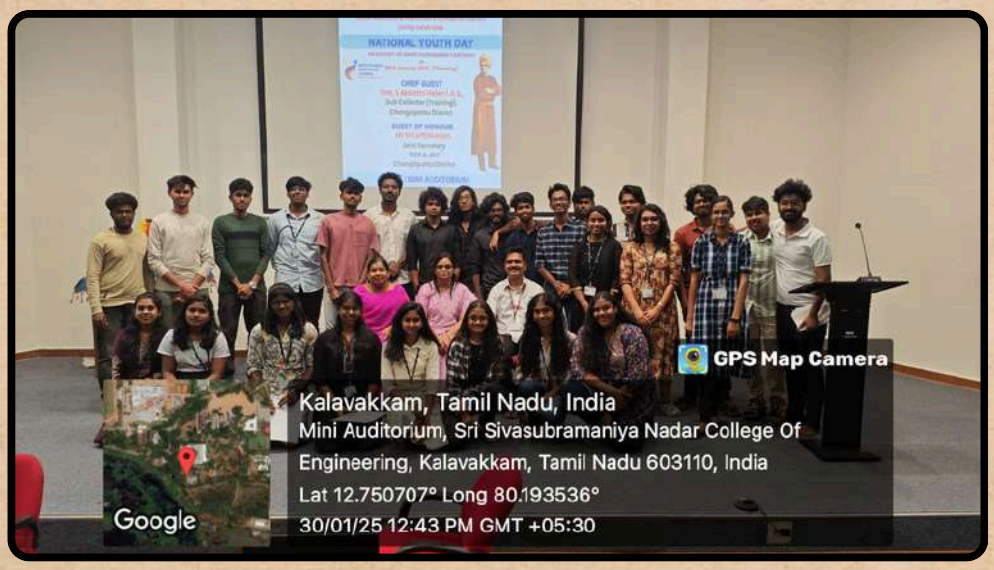
"Mini Delight was our little food heaven—lays chaat, pancakes, sweets, savouries, we had it! We genuinely enjoyed every moment of organizing the shop, and more than anything, it brought us all closer as friends. With happy hearts and beautiful memories, we're signing off!"

CAMPUS BUZZ

Witnessing vibrant programs in our campus

YOUTH DAY

-Haritha M H, 2nd year



The Youth Red Cross and the Institution's Innovation Council of Sri Sivasubramaniya Nadar College of Engineering jointly organized a special event on 30th January 2025 to celebrate National Youth Day in honor of Swami Vivekananda's birthday. The event took place at the Mini Auditorium on campus and witnessed enthusiastic participation from students and faculty members. The occasion was graced by the Chief Guest, Tmt. S. Malathi Helen I.A.S., Sub Collector (Training), Chengalpattu District, who addressed the gathering with inspiring words on youth empowerment and social responsibility. The event also featured Mr. N Karthikkeyan, Joint Secretary of IRCS & JRC, Chengalpattu District, as the Guest of Honour, who shared valuable insights on volunteerism and community service. The session served as a motivational platform for students, aligning with Swami Vivekananda's ideals of youth strength, innovation, and national service.

Unstoppable spirit

-Keerthi Sheevani G
2nd year

From March 9 to March 12, 2025, I had the incredible opportunity to participate in the athletics competition conducted by Manipal Institute of Technology in Mangalore. However, the journey to this competition was anything but easy.

About a month before the event, I received an unexpected call from my senior informing me about the upcoming meet. The news left me stunned. I had not been training for over 3 months due to a shin injury and I was so out of form. Despite the challenges, I was determined to compete. I immediately resumed training, pushing myself every single day.

I had assumed that after three months of rest, my shin would have healed completely—but that wasn't the case. Even so, I practiced relentlessly, fueled by the hope that my efforts would pay off. As the competition date drew closer, the stress started to build. I often found myself doubting whether I was truly ready.

But amidst all the struggles, I managed to persevere. I competed in eight events and, despite the odds, secured five silver medals. I placed second in the 800m, 1500m, 3km, 4×100m mixed relay, and 4×400m mixed relay. While I didn't achieve my personal best timings, I gave it my all, pushing through exhaustion and self-doubt.

What made this experience even more special was the unwavering support from my teammates and friends. There were moments when I felt low, but they stood by me, constantly motivating and uplifting me. The meet was not just about winning medals-it was about resilience, teamwork, and personal growth.

Though physically demanding, this competition taught me valuable lessons in mental strength, perseverance, and adaptability. It was an exhausting yet fulfilling experience, one that I will always cherish. Sometimes, it's not about being in perfect form but about showing up, giving your best, and embracing the journey. And this journey was definitely worth it.

STUDENT SPOTLIGHT

Showcasing Talents, Ideas and Achievements

"Every stride, a step closer to greatness. Every finish line, just the beginning."

-Kathir Ezhil A
2nd year

The MIT Athletics Meet was a game-changer for me – a turning point that redefined my journey in athletics. What began with uncertainty and self-doubt ended with an overwhelming sense of accomplishment. I walked into the competition with no expectations, battling internal doubts about my performance, coupled with the pressure of missing a week of classes. But by the end of those three intense days, I walked away with not just three medals but also a renewed belief in my own potential.

Overcoming Doubts and Rediscovering My Strength

For two years, I had been training relentlessly, but somewhere along the way, I had started to question whether it was all worth it. This competition reminded me that hard work never gives up on you – sometimes, all it takes is the right intensity and proper guidance to unlock what's already within.

Conquering the Track: Medal After Medal

The athletics meet spanned **three action-packed days**, and each day brought a new story.

🥉 **Day 1**: I kicked off with the **800m race**, where I secured a **bronze medal**. While it wasn't a performance I was fully content with, it set the tone for the challenges ahead.

🥈 **Day 2**: This was where things turned around. I lined up for the **5000m race** – an event that had haunted me since my disappointing experience in the previous zonals. But this time was different. I embraced the challenge, pushed through the mental barrier, and not only clinched the **silver medal** but also **smashed my personal best timing!** That moment reignited my love for long-distance races, proving to me that perseverance always pays off.

🥈 **Day 3**: The final day delivered the biggest surprise. The **1500m** final was neck-and-neck, and I gave it everything I had. I was so close to gold, missing it by a mere **0.19 seconds**, but earning another **silver medal** in such a competitive field was a moment to cherish.

Breaking Barriers and Beating My Own Best

What made these victories even sweeter was the fact that in all three races, I managed to beat my personal best timings. That's what truly mattered – knowing that I was improving, race after race.

Turning Doubt into Triumph: A Story Bigger Than Me

Before leaving for MIT, not many of us expected that we'd return with medals in individual track events. But we rewrote that story. My teammates delivered exceptional performances in their respective events, and together, we managed to secure the runner-up trophy in overall athletics.

A New Chapter Begins

This experience has ignited a new fire within me. The three medals are just the beginning – a reflection of what's possible when I refuse to let doubts define me. I've rediscovered my passion for long-distance races and unlocked a new mindset that I'm eager to carry into future competitions.

"I came to this meet with doubts, but I'm leaving with a heart full of confidence and a hunger for more. The finish line isn't the end – it's where the next journey begins."

Circuit Debugging Event at Impulse Symposium

-Joy Kevin L
2nd year

I participated in a technical event called Circuit Debugging along with my friend John Wesley, which tested our problem-solving and technical skills through three challenging rounds. The first round was a multiple-choice quiz(MCQ) that assessed our fundamental knowledge of circuits and electronics. The second round focused on design thinking, where we had to come up with innovative solutions to a given problem. The final round required us to analyze and identify faults in a given circuit, testing our debugging and troubleshooting skills. After reviewing my final output, the CIT team appreciated my work and encouraged me by awarding me the 2nd place in the competition. It was a wonderful experience, and I learned a lot.

I sincerely thank my department staff and HOD mam for giving me this opportunity.

Best NSS Volunteer Award

-Kavin D
Batch 2014–2018

Alumnus Mr. Kavin D (EEE, Batch 2014–2018) has been honored with the Best NSS Volunteer Award by Mrs. Sundaravalli, IAS, Commissioner of Collegiate Education, Government of Tamil Nadu. This prestigious recognition reflects his dedication to community service and impactful contributions through NSS. His efforts serve as an inspiration for students to actively engage in social initiatives and make a difference.

இளநீர்க்கூடு

நீந்துகின்றேன்...நீந்துகின்றேன்...
நீந்திக்கொண்டே இருக்கின்றேன்...
வந்த இடம் தெரியாமல்..
போகும் இடம் புரியாமல்...
செல்லும் பாதை அறியாமல்...
அழகானதோ..
ஆனந்தமானதோ..குழப்பமானதோ..
சென்று சேர்ந்த பாதை தந்த அனுபவம் அழகு
இனிப்பான நீரை பிறருக்கு தரவில்லை..
இனிமையான நினைவுகள் இல்லாமலும்
போகவில்லை..
என்கிறது கடலில் மிதக்கும் இளநீர்க் கூடு..

- **Hemavathy T E, 2nd year**

A LOST TEEN GIRL

Tears stain my cheeks as my eardrums
hummes with the words,
Guilt spreads through my heart and
slashes my insides like swords,
My head hurts with the shutdown
emotions while a part of me freezes
forever,
My heart craves for the peace while a part
of me hates myself,
Why? Just to be born with greater
expectations but proved worthless!

-Hemalatha G V, 2nd year

ECHOES OF AN ELUSIVE AGE

-**Shivam Kumar, 3rd year**

In shadows cast by a distant moon's glow,
Unrequited love, a bittersweet woe.
A heart that yearns, a soul that sighs,
In silent tears, its sorrow lies.

Why does love's ember burn one way?
A painful dance, night and day.
When hearts align, it's heaven's grace,
But unreturned, a bitter chase.

Does love unspoken haunt the soul,
As waves of longing take their toll?
In secret dreams, the heart takes flight,
Yet in reality, it fades from sight.

Can unrequited love find its peace,
In the depths of longing, will it cease?
Or is it a fire that forever burns,
A lesson in love, as the heart yearns?

In moonlit realms, where dreams entwine,
Unrequited love, a grand design.
The labyrinth of longing, so profound,
In verses intricate, our sorrows resound.

With every stanza, a heart's lament,
In sonnets woven, its intent is sent.
An intricate tapestry of desire and despair,
Unrequited love, a burden we must bear.

In rhymes that dance, a waltz of pain,
A cadence of love, like summer's rain.
Yet still, we chase this elusive dove,
Through intricate verses, unrequited love.

In the final verse, we find our close,
Unrequited love, like a withering rose.
Though complex and deep, this love may be,
In its embrace, we find our poetry.

Through the pain and intricate rhyme's grace,
We learn to cherish love's transient embrace.
For in the end, it's not the love we gain,
But the beauty of longing, the eternal refrain.

1. திருமணங்களில் முடுச்சிகல் போடமட்டும்
அல்ல; அவிழ்க்கவும் படுகின்றன, வாசலில்
வாழைமரம்.

2. இன்று வேண்டாம்; நாளை வா நிலா;
ஊட்டுவதற்குச் சோறில்லை...

3. பிரம்மச்சாரிகல் அறை; ஞாயிறு பிற்பகல்;
துனி துவைக்கும் சத்தம்...

4. டெல்லியில் யதேச்சையாக சந்தித்த;
இன்னொரு தமிழனின் கேள்வி; இட்லி தோசை
எங்கு கிடைக்கும்.

5. அடைமழையில் கூரை வீடு; மார்வாடி
கடைப்பக்கம் ஒதுங்கியது;
சீதன வெள்ளிக் குடம்

-Vasanth, 3rd year

BREAKING BARRIERS:
HOW WE MADE OUR INDUSTRIAL VISIT HAPPEN

--*Kathirvel V, 2nd year*

Every journey has a beginning, and for me, my journey as a representative started with the idea of organizing an Industrial Visit (IV). Looking back, it feels like this responsibility found me rather than the other way around. What started as a simple plan quickly turned into an adventure filled with challenges, teamwork, and unforgettable experiences. The semester kicked off with an intense debate across the department—should Wonderla be part of our itinerary? This seemingly small question led to endless discussions, group polls, and passionate arguments. After much back and forth, Kerala was finally chosen as our destination. With that decision locked in, the real test began. The first step—booking train tickets—seemed easy at first. But soon, we found ourselves working backwards, piecing together all the necessary approvals and formalities. It was a race against time, but somehow, we made it work. One of the biggest highlights was inviting Dr. N. Muthuselvan to accompany us. His presence added so much value, and we couldn't have asked for a better mentor on this trip. However, just when we thought we had everything in place, another challenge surfaced—we needed a female faculty member to approve the trip.

What followed was weeks of knocking on doors, sending emails, and searching every corner of the college. It seemed impossible, but when we were on the verge of giving up, Dr. Rajasi Mandal stepped in with her kindness and generosity. She agreed to join us, and that single moment turned everything around. When we shared the final approval message in our group, the explosion of joy and excitement was something I'll never forget.

Organizing this trip was both thrilling and exhausting. Juggling different opinions, ensuring everything ran smoothly, and keeping everyone happy was no easy task. At times, it felt overwhelming, but seeing it all come together made every struggle worth it. I want to give a huge shout-out to my fellow representatives, Krithika and Yuvaraj, who stood by me from start to finish. Without their constant support, none of this would have been possible. To all our friends who pitched in along the way—thank you for making this journey even more special!

The trip itself was nothing short of magical. From exploring the Kerala Electrical & Allied Engineering Co. Ltd. in Kochi to experiencing the peaceful beauty of Vagamon's pine forests and cruising through the backwaters of Alleppey, every moment was a perfect mix of learning and leisure.

The IV wasn't just about gaining technical knowledge—it changed our perspective on teamwork, responsibility, and leadership. And for me, it was much more than just an event—it was a transformation. Managing and leading through challenges made me realize my own strengths. This wasn't just an industrial visit; it became a defining chapter in my college journey, filled with moments of growth, discovery, and happiness.

If there's one small regret, it's that we didn't capture enough reels during the journey. But honestly, in the end, memories matter more than reels. What we take away isn't just photographs but the unspoken bonds we formed, the laughter we shared, and the lessons we learned together.

Looking back, this IV was so much more than just a trip—it was a journey of unity, resilience, and self-discovery. And for that, I am truly grateful.
Like a sunset marking the end of a beautiful day, this journey left us with memories that will always shine in our hearts. More than the places we visited, it was the people and shared moments that made it truly special.

RAFTS, FALLS, TEMPLES & TECH
A JOURNEY BEYOND THE CLASSROOM !

-Supraja V, 3rd Year

Our industrial visit was a perfect blend of thrill, learning, and bonding. On the first day, we set off to Dandeli, where the adventure began with river rafting. The gushing water, the team spirit, and the sheer excitement made it an unforgettable experience. Later, we spent time at the resort with a cozy campfire, sharing laughs and stories with friends and even our faculty, who were just as enthusiastic and fun-loving as we were. That night felt like a celebration of togetherness.

Day two took us to Vibuthi Falls, a serene and scenic spot where everyone jumped into the clean, refreshing water. It was pure joy seeing everyone unwind and enjoy the moment. Later, we headed to Gokarna for a beach trek to Paradise Beach. The trail was adventurous and scenic, but the real magic happened when we reached the beach. The sunset there was breathtaking–

RAFTS, FALLS, TEMPLES & TECH
A JOURNEY BEYOND THE CLASSROOM !

-SUPRAJA V, III YEAR

like something out of a painting. Gokarna itself had such a mystical yet global vibe, with charming souvenir shops and a calm coastal energy that felt different from anywhere else.

On the final day, we visited the Murudeshwar temple. The massive and awe-inspiring Shiva statue, and the temple's atmosphere added a divine touch to our journey. After soaking in that spiritual moment, we moved on to the main purpose of our trip—the industrial visit to Rainbow Pipes. There, we learned about how RPVC and UPVC pipes are manufactured. We saw how raw materials are processed, how quality checks are done in their in-house lab, and how technology ensures precision and durability. It gave us real insight into large-scale production and the importance of standards in manufacturing.

The trip as a whole was more than just a visit—it was a journey filled with laughter, learning, and a sense of unity. Every moment, whether it was spent on a raft, under a waterfall, at a temple, or inside an industry, added something unique to our experience. We returned not just with memories but with a broader perspective and a deeper appreciation for the blend of nature, culture, and innovation.

ART - FULLNESS

Expression of self through artworks

MANASAA 2ND YEAR EEE

MANASAA 2ND YEAR EEE

HEMALATHA GV 2ND YEAR EEE

MANASAA 2ND YEAR EEE

SEPIA STORIES

Focus. Frame. Capture.

Gowri Shankara Narayanan
II year

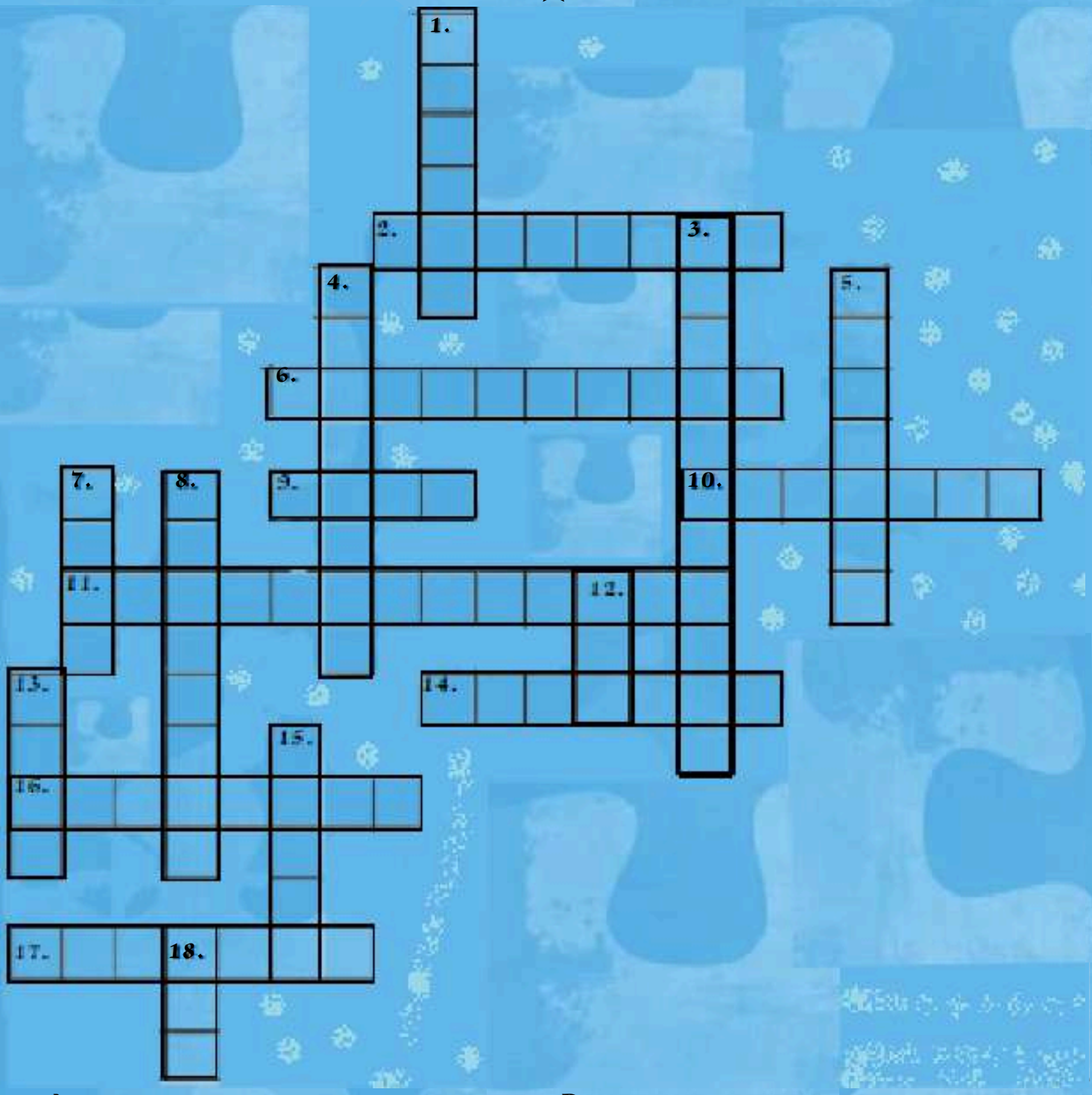
Hemalatha,
II year

Suvashwin V
III Year

Gowri Shankara Narayanan
II year

PUZZLED

Across the word in 80 days!



Across:

2. a waveform with slow linear rise time and a fast fall time
6. Firing of gate
9. winding used in high voltage dc machine
10. This DC DC converter has a 3 winding transformer

Down:

1 . data transfer that occurs one bit at a time
3. device that steps up or steps down voltage
4. Effect causing voltage rise at receiving end of a transmission line
5. Protection circuit for SCR
7. Point at which two or more elements are connected

PUZZLED

Across the word in 80 days!

Across:

11. Sometimes abbreviated demux, this is a circuit that has one input and more than one output
14. The analysis technique that converts a time domain signal to its frequency domain
16. Map used to simplify Boolean expression
17. Boost and Buck are examples

Down:

8. Process of converting a continuous signal into a discrete signal
12. Used to design full adder/subtractor
13. The part of the DC machine that acts as a return path for magnetic flux lines
15. Sudden increase in electrical current
18. Type of inverter that produces stepped AC output

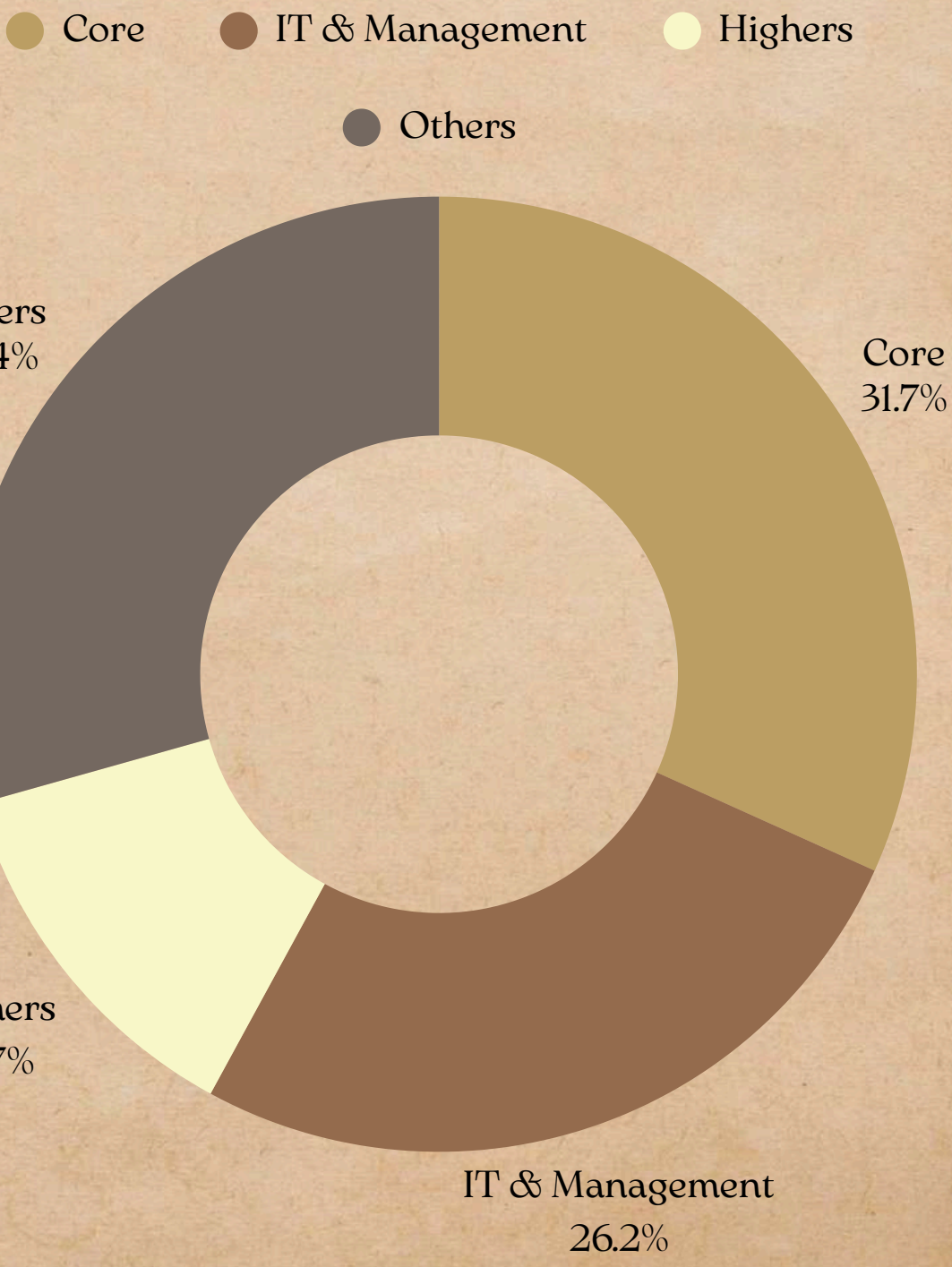
Answers:

Across:
2. Sawtooth
6. Triggering
9. Wave
10. Flyback
11. Demultiplexer
14. Fourier
16. Karnaugh
17. Chopper

Down:
1. Serial
3. Transformer
4. Ferranti
5. Snubber
7. Node
8. Sampling
12. XOR
13. Yoke
15. Surge
18. PWM

PLACEMENTS

Pathway to grab opportunities!



PLACEMENTS

Pathway to grab opportunities!

CORE COMPANIES

TOP HIRERS

Highest Paid Core CTC: 12 LPA (Schneider Electric)

IT & MANAGEMENT COMPANIES

TOP HIRERS

Highest Paid IT and Management CTC: 18 LPA (Citi Bank)

PLACEMENTS

Pathway to grab opportunities!

NAME **: Mahesh M**
COMPANY **: Kobelco**
POSITION **:**
Graduate Engineer Trainee (Intern+FTE)
ELIGIBILITY CRITERIA**: Minimum 70% in 10th, 12th, and UG,No active backlogs**

FORMER INTERN:

Quality Control Department at Hyundai Motor India

COURSES TAKEN:

- EPLAN Electric Basic Certification
- Fusion 360 Design Software

INTERNSHIP EXPERIENCE:

My internship at Hyundai Motor India (Quality Control Department) gave me a fundamental understanding of manufacturing processes. This knowledge helped me confidently answer technical questions during my interview.

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Interview Process:

Round 1: Aptitude & Technical Test-The aptitude section focused on:

- Pipe and Cisterns,Coding-Decoding
- Time & Work,Figure-based Reasoning

I highly recommend Career Ride YouTube channel for aptitude preparation—it's useful for all companies.

The technical section included numerical problems on:

- R-H Criteria
- Separately Excited DC Generator
- Induction Machines
- Power System Stability & Generation, Transmission, and Distribution (GTD)

Round 2: Technical + Behavioral Interview

This was a basic technical and HR round, where they focused more on behavioral aspects rather than deep technical questions.

Projects for Placements:

My IFP project, "Design of a Single Screw Extruder," played a crucial role in impressing the recruiters. Since Kobelco manufactures similar products, it helped me stand out.

Resume Tips & Skill Development:

Create three different resumes based on roles:

- Graduate Engineer Trainee (GET) Role
- Embedded Software Role
- Software Development (SDE) Role

This ensures a precise and targeted resume for each position.

Placement Preparation Strategy:

- For core companies offering GET roles, no separate preparation is required.
- Focus on: Aptitude and Basic core subjects
- Maintaining a strong CGPA (8.5+ helps with shortlisting in top companies).

REGRETS AND FINAL THOUGHTS:

Check the job role and responsibilities before applying.
If it's an Intern + FTE offer, verify the job location.
If the location is outside Chennai, it might be difficult to manage final-year projects and presentations.

Stay consistent in preparation, build a strong resume, and carefully evaluate job offers before making decisions.ATB!!

PLACEMENTS

Pathway to grab opportunities!

NAME **: Ramyalakshmi G**
COMPANY **: Fidelity Investments**
POSITION **: Software Development Engineer**
ELIGIBILITY CRITERIA**: 8 CGPA with no live backlogs**

INTERNSHIP EXPERIENCE :

Secured a summer internship at Fidelity Investments from June 4 to August 4, 2024, and received a PPO based on performance.

COURSES TAKEN:

- Front-end Development – HTML, CSS, JavaScript
- Databases – SQL, MongoDB (Intermediate)
- Cloud Computing – Basic knowledge
- Programming – C++ (OOPs, Data Structures), Java, Python

INTERNSHIP DETAILS:

Worked in a team of five (3 interns, 2 associates) on a company project, focusing on Java-based back-end development using Spring Boot and JPA. Gained experience in Agile methodology and tools like Atlassian Jira. The internship provided exposure to corporate culture and networking.

Interview Process:

1. Written Test – Aptitude, Basic Math, English, 2 Coding Questions (Strings, 2D Arrays), Algorithms (Linear/Binary Search, Basic Sorting).
2. Technical Interview (40 min) – Questions on my IFP project (sensor-based, web development), Fidelity knowledge (LEAP internship), and interest in Computer Science despite an Electrical Engineering background.
3. HR Interview (20–25 min) – Family background, hobbies, and business-related discussions on my IFP project.

PLACEMENTS

Pathway to grab opportunities!

PROJECT SUGGESTIONS FOR PLACEMENTS:

- Frontend projects (HTML, CSS, JS) – Self-taught
- Full-stack application (SQL, REST API) – Hands-on with queries, triggers, and procedures
- MERN stack (ReactJS, MongoDB, ExpressJS) – Explored in IFP

RESUME & SKILL PREPARATION TIPS:

Resume: Ensure sound knowledge of everything listed (technical, responsibilities, hobbies). Keep it simple and tailored to job descriptions.

SKILLS:

Master a tech stack rather than learning multiple at a surface level, Project-based learning > Theoretical learning, Maintain a GitHub repository, Leverage YouTube and pursue certifications (AWS, Azure, CCNA).

PREPARATION FOR IT PLACEMENTS:

- Start with a preferred language (C++/Java).
- Solve Leetcode problems and explore languages in depth.
- Learn OOPs, DBMS (queries, ER diagrams).
- Master Arrays, Strings, then move to LinkedLists, Stacks, Queues.
- Practice Aptitude & Reasoning (IndiaBix, etc.).
- Gain basic knowledge of Networks & Cloud.
- Revise regularly.
- For Web Development, start with HTML & CSS, then move to JS.

FINAL THOUGHTS!

Obviously, I am happy about the place where I am right now. Considering todays's trend, sometimes I feel I could have started to learn trending domains such as ML, NLP in my early college years. Then I could have explored that field as well for my career opportunities. Anyway, better late than never. Have a great life ahead guys. Eventually, you will figure out your field on interest and I recommend you to take that path.

PLACEMENTS

Pathway to grab opportunities!

Name: **Arthika**
Company: **Ashok Leyland**
Position: **Graduate Engineer Trainee(FTE)**
ELIGIBILITY CRITERIA: **7 CGPA with no history of arrears**

PLACEMENT EXPERIENCE:

My placement process at Ashok Leyland began with an online test

Round 1: It had 50 aptitude & 50 technical questions , to be solved within an hour.

- The aptitude section contained logical reasoning, quantitative ability, and verbal skills
- The technical section contained basic electrical engineering questions. Proper time management was required for clearing this round.

Round 2: Gamification round

- In this we had to solve puzzles in a game environment, which thereby tested the problem-solving abilities, decision-making powers, and ability to identify patterns.

Round 3:

- A group discussion session. The discussion was based on the image that was displayed. Our group had to discuss on the current education system.
- Following the group discussion, **I was asked to give a one-minute video interview using AI assistance.** The question I was asked was, "Where do you see yourself in five years?" I explained about my interest to gain technical expertise in the field of electric vehicles and to be able to contribute to innovative and green energy solutions.

Round 4:

- The final round was the technical and HR interview.
- When asked about my favourite subject, I opted for

Electric Circuits and explained:

1. **Detailed overview of all the units, such as Circuit laws, network theorems, etc.**
2. After that, I was asked to describe **Thevenin's, Norton's, and Superposition theorems, which I explained by giving simple examples and describing the differences between them.**
3. I was asked questions regarding **electric vehicles, during which I described the application of BLDC, PMSM, and Induction motors and their respective advantages.**
4. Another technical question was **regarding the application of a capacitor in the input of a DC system**.
5. I provided **a brief overview of my honors course on Electric vehicles and how it improved my learning experience**.

The HR interview questions included questions about my hobbies.

Final Thoughts:

In short, the entire placement process was a test of technical knowledge along with personal qualities. Every step was so framed to test different aspects aptitude, communication, analytical reasoning, and subject knowledge. It was a challenging but enriching experience from which I learned a lot with plenty of insights along with enhanced self-confidence. Atb!!!

PLACEMENTS

Pathway to grab opportunities!

Name: **AVN Hiteshwar**
Company: **Workato**
Position: **Software Engineer**
ELIGIBILITY CRITERIA: **7 CGPA with no live backlogs**

Former Intern:
Software Engineer Intern at Discrete Kernels, Deep Learning Intern at Shirmitha Energy Solutions under Dr. Seyezhai Mam

Additional Courses taken to strengthen my technical foundation, I completed the following courses:

- Machine Learning & Deep Learning : Machine Learning – 3 courses (Andrew Ng, Coursera).Deep Learning – 5 courses (Andrew Ng, Coursera). The first 3 ML courses and first 2-3 DL courses are sufficient And Can be completed in a few weeks with 1 hour/day.
- Programming & Data Structures- Python Data Structures and Leetcode Exercises – Scott Barrett
- Key Topics: Linked lists, stacks, queues, sorting algorithms (Solved most Leetcode questions),Recursion, DFS, BFS, graphs, binary search trees
- Full Stack Development: The Complete Full Stack Development Bootcamp – Dr. Angela Yu (Udemy)
- Recursion & Backtracking: Recursion Playlist – Kunal Kushwaha (YouTube),Watched 5 times for complete understanding, Covered bitwise operators, number systems, math-related questions
- Binary search problems (Leetcode, Kunal Kushwaha's YouTube)
- Course in Java, but focused on thought process while implementing in Python

PLACEMENTS

Pathway to grab opportunities!

- Tip: Keep watching and solving until fully understood
- Graphs: Graph Leetcode Questions – FreeCodeCamp (YouTube)
- Database Management & Core CS Topics, DBMS – Gate Smasher (Hindi, YouTube),Computer Networks & OS – YouTube tutorials
- PostgreSQL/MySQL
- 15 Days of SQL: The Complete SQL Masterclass – Nikolai Schuyler
- System Design: Mastering the System Design Interview – Frank Kane (Udemy)
- Can be completed in a day with strong CS fundamentals
- Cloud Computing
- AWS Cloud Practitioner – Stephen Marek (Udemy)

My Workato Interview Experience :

1. Round 1- Online Assessment : A pen-and-paper test focused on strong and tricky aptitude, logical reasoning, easy-level English, and a programming section with Java and C++ MCQs. Only 14 candidates were shortlisted for the interview.

2. Round 2- Technical Interview 1: (with an experienced SDE employee)

- Two small coding problems, probably easier than Leetcode easy level,
- Most of the questions were based on my resume skills and projects, including my final year project.
- Basic questions on AWS, frameworks such as Flask in Python, Express and Node.js in JavaScript backend, API workings, code testing for quality, DevOps related questions, and a system design question.
- Finally, a logical reasoning question.
- The interview lasted 1 hr 30 mins

3. Technical Interview 2 (with the Director of the company)–

- Questions on my introduction, resume, and final year project.
- Live coding of a Leetcode medium-level question related to ASCII-type problems.
- Logical reasoning questions.
- The interview lasted 50 minutes.

4. HR/Managerial Interview –

- Questions about why I chose Workato and other management-related topics.
- The interview lasted 15 minutes

Some key projects that helped me stand out:

- PV Defect Detection hosted by Flask and React web applications using Deep Learning – Showcased my ability to work on real-world ML applications.
- Full Stack Web Application for Language Recognition System – Built a model that recognizes languages using React, Node.js, HTML, CSS, and JavaScript.
- 3D Interactive Portfolio – Highlighted my frontend skills and creativity in web development

Internship Projects:

- Detection of Diabetic Retinopathy using Deep Learning
- Prediction of Credit Default using Machine Learning for Unsecured Loans

Resume Preparation & Skills Development Tips:

- Problem-solving is key – Followed Top 150 Leetcode questions and Neetcode's YouTube for medium-level problem explanations.
- Projects matter – Doing hands-on projects builds confidence and is the best interview preparation.
- Strong fundamentals – Recruiters focus on core concepts, so a solid foundation is crucial.
- Key topics – Mastering arrays, strings, linked lists, stacks, queues, and binary search was sufficient for me.
- Mindset is everything – A EEE background shouldn't be a barrier. Willingness to learn, problem-solving skills, and perseverance matter more.

PLACEMENTS

Pathway to grab opportunities!

- Trust the process – I started with zero software background but built knowledge through structured learning.
- Consistency is key-Started in the 6th semester – Completed multiple courses, which helped me succeed.

How to Prepare for Placements:

- Start Early:Don't wait for placements to begin; start preparing in your second or third year.
- Master Coding Skills: Regularly practice on Leetcode, or HackerRank.
- Understand System Design :Even for freshers, having a basic idea helps.
- Work on Real Projects: Internships or personal projects make a huge difference.
- Mock Interviews:Practice with peers or use platforms like Pramp or InterviewBit.
- Resume Refinement:Keep refining based on feedback.

Regrets :

Looking back, I regret not starting earlier. I wish I had explored advanced projects, competitive coding, and open-source contributions sooner, as they refine problem-solving skills and provide real-world exposure.

Final Thoughts:

However, every journey has its own timeline. What truly matters is starting, staying consistent, and continuously improving.

Regardless of background or CGPA, anyone can secure a top placement with the right resources, curiosity, and perseverance. Intelligence alone isn't enough—hunger for knowledge and stepping out of your comfort zone is what sets you apart. Growth happens when you challenge yourself, push boundaries, and keep learning.

PLACEMENTS

Pathway to grab opportunities!

Name: **Pranav Surya S**
Company: **GE Vernova**
Position: **Graduate Engineer Trainee**
ELIGIBILITY CRITERIA : **6 cgpa with no active backlogs**

Getting placed at GE Vernova was undoubtedly one of the most exciting and rewarding phases of my life. It really tested my understanding of everything I have learnt the past 4 years and it made me realise where I stand. The entire journey was smooth and well-organized, thanks to the combined efforts of the placement committee and the HR team.

Round 1:

- Technical test aimed at evaluating our understanding of essential concepts in electrical engineering. The questions were straightforward, focusing on the basics, fundamental and less intimidating. To mention some of them, there were questions like

What is current, how speed of a motor can be changed from the given options (frequency) and certain problems on secondary CT current.

The clear message that they sent was that they wanted someone who understands the fundamental simple concepts with a deeper understanding rather than someone who knows advanced concepts with partial knowledge.

Round 2: Group discussion. Confidence, respect for differing opinions

The topic can be either base level technical like impact of AI on society, India's stand in Green Energy and such or it can be purely non-technical like impact of social media etc.,

Round 3: HR and technical interview.

- The HR segment explored aspects of our personal lives, aspirations, and our vision for a career at GE Vernova

- On the technical side, the focus shifted to advanced electrical engineering concepts, **particularly in power systems**. It is worth noting that "advanced" did not mean overly complex but rather a deeper understanding of fundamental advanced concepts. The questions tested not only our knowledge but also our ability to apply it in practical scenarios. To give a vague idea, there were very simple questions like the **cause of an electrical shock, why turning on of a switch causes the bulb to instantaneously light up without a lag in time, difference between CBs and fuse, but there were certain questions testing on our understanding of advanced concepts such as how relay and circuit breakers are interconnected and used in a circuit, the types of protection used in our homes, the number of wires that are used to provide connection from local distribution to our home (4), why is neutral needed in a single phase circuit,to mention a few.** These questions don't have complex or long answers, but the **small details we miss out makes a huge difference in our understanding.**

Final thoughts:

GE Vernova's commitment to the safety and welfare of the community is deeply inspiring. They believe in taking responsibility for their actions and expect the same mindset from their employees. Anyone who is dedicated and is willing to create a better community with the right mentality of taking responsibility are more than welcome here. Finally, I wish the successive batches to give their best in taking up your tests and interviews with confidence and may you find the opportunity you were searching all along.

PLACEMENTS

Pathway to grab opportunities!

Name: **Eashwar KR**
Company: **Valeo India Pvt Limited**
Position: **Process Intern**
ELIGIBILITY CRITERIA: **7 cgpa with no active backlogs**

Internship experience:

Completed my internship at **NISSI Engineering Solutions Pvt Ltd**, which mainly focused on testing, commissioning, and erection of power system equipment.I also Gained practical exposure to relay sensing in transmission lines. This experience provided me a strong foundation in power system operations and motivated me for my final year project on this topic

Projects:

1. Analysis of Transmission Line Faults Using Distance Protection Scheme Focused on identifying and isolating faults in transmission lines using distance relays, enhancing system reliability and protection response time.
2. Speed Control of DC Motor Using PWM with L298N Motor Driver

Basic questions related to these projects ,mainly focusing on the working principle, components used, and practical implementation were asked to me in the interview.

Interview Experience:
Valeo visited the campus for recruitment twice. During the first visit, I reached the technical interview round but got rejected, but i cracked it the next time.

PLACEMENTS

Pathway to grab opportunities!

The most important 2 rounds :

1.Technical interview :

- The focus was **primarily on Power Electronics. Questions were based on the principles, working diagrams, uses, and structure of converters—including DC-DC, AC-AC, Buck, Boost, and Buck-Boost converters. I was asked to draw circuit diagrams, explain their working.**
- I was given problem statements to analyze and suggest steps for resolution. Around 2–3 scenario-based technical questions were posed, mainly centered on real-time power electronics applications.

2.HR Round:

- In HR round i was just asked general questions like tell me about yourself and a bit about my projects as well.

Final thoughts:

Resume plays a key role. It's important to include only what we thoroughly know and understood.No unnecessary additions. Including valid certifications like NPTEL courses added value and helped during shortlisting. Atb!!!

PLACEMENTS

Pathway to grab opportunities!

Name: **Gokula Krishnan GB**
Company: **GE Vernova T&D INDIA Ltd**
Position: **Graduate Engineering Trainee**

Former Intern:
Application layer intern – Mindgrove Technologies Pvt Ltd

Additional Courses Taken:
Register level firmware development with PIC microcontroller – Argyn Technology

Former Internship Experience/Aid:

I did my summer internship at end of IIIrd year in Mindgrove Technologies Pvt Ltd located at IITM Research Park, Tharamani – System on Chip (SoC) design company. During my internship hunt time, I clearly had a vision to pursue intern in embedded core company because of the interest I had with it. I cold mailed my resume along with the statement of purpose. After a week they called me for an interview to their office and panel of two members asked major questions related to embedded C programming. Then I got my selection result after two days.
My intern work was completely related with application layer embedded programming and debugging the errors in source code files.

Tips: Find your stream of interest. Send your stream-tailored resume to related companies through cold mail, Linkedin connections and don't hesitate to ask references from your friends, relatives or others.

Interview Experience :

Round-1: Written test – multiple choice question
Most of the questions are basic electrical engineering

Round-2: GD
Topic: Artificial Intelligence

Round-3: Techinal – HR Round

Held at CDC panel room with two interviewers (Senior HR and Technical employee). Initially Senior HR asked me basic HR related questions such as "Tell me about your profile and family background", "Why do you need GE?", "Why did you chose Electrical Engineering?", "Are you interested in Electrical or Electronics?", "Will you opt for Highers in future?", "What are your strength and weakness? & Why they are those with instances?". Finally Technical employee, asked me 3-4 questions relatively about machines, renewable energy, power system. Total interview time was about 10-20 minutes. No more questions were asked related to my projects and internships. It may be because of being one of the final students to finish the interview process.

Projects for Placements:

1) Brain Computer Interface for assisted vehicle control
2) Real-time Clock with PIC microcontroller

Special tips for Placements:

1) Do projects in your interested stream with good mentoring guide.
2) Have 1-2 month internship experience.
3) Try to do additional courses along with real-time projects.
4) Have a separate 1 page resume which can be made with Canva/overleaf platform.

Use free courses in NPTEL wisely rather than gaining marks alone for course waiver

How to prepare for Placements?

Decide your field of interest : Electrical or Electronics
If Electrical, then be strong in these subjects :
Circuit Theory Basics (KCL, KVL, Theoroms),
Machines-I, Machines-II, GTD, Power system Analysis (PSA),
Power system Operation and Control (PSOC),
Power Electronics, Protection and Switchgear (most important).

If Electronics, then be strong with MPMC, C/C++ programming, Digital Logics and Design, Analog circuits.

PLACEMENTS

Pathway to grab opportunities!

Any Regrets Looking Back?

- Didn't use academic life properly.
- Lack of projects in resume.
- Habit of last minute learning.
- Worst in basic level understanding.

These factors hit my mind hard and made me to feel regret during the time I was not selected or moved further for next level rounds in placement process.

Don't do these mistakes, if it has already happened try to recover from it as soon as possible

PLACEMENTS

Pathway to grab opportunities!

Name: **Sangamithirai S**
Company: **GE Vernova**
Position: **Graduate Engineering Trainee**
ELIGIBILITY CRITERIA: **6 CGPA with no active backlogs.**

Securing a position at GE Vernova has been an immensely rewarding experience, marking a significant milestone in my professional journey. This opportunity allowed me to apply the knowledge I gained during my four years of study, while also providing a deeper understanding of my strengths and areas for growth.

The placement process was methodically organized, beginning with a pre-placement talk (PPT), followed by three key rounds: a technical test, a group discussion, and a technical interview. The eligibility criteria for the process required a minimum CGPA of 6 with no arrears.

Round 1: Technical Test

The first stage involved a written technical test designed to evaluate fundamental concepts in electrical engineering. This was a paper pen test and consisted of 20 questions to be answered within 20 minutes. While 16 of the questions were relatively straightforward, the remaining four were time-intensive. Candidates who performed well were shortlisted for the next round.

Round 2: Group Discussion

Shortlisted candidates then proceeded to the group discussion round. The topic assigned to my group was “AI: Boon or Bane.” We were given 15 minutes to present and debate our views. This round was designed to assess our communication skills, ability to articulate ideas, and teamwork.

The evaluators closely observed how well we contributed to the discussion and collaborated as a team. After this round, again we got the list of people who were shortlisted for the next round.

Round 3: Technical Interview

The final stage was an intensive technical interview lasting around 25 minutes. The interviewers posed detailed questions on topics such as Power Systems, Electrical Circuits, and Power Devices. They also asked me to explain my problem-solving approach during the technical test. Additionally, I was asked to explain my final year project in detail and answered to various technical questions related to it. My internship experience was another focus area, with the interviewers keen to understand the practical knowledge that I had gained. The interview was challenging but insightful, providing a platform to demonstrate both technical competence and critical thinking.

Overall, the placement process at GE Vernova was a comprehensive experience that tested both technical and interpersonal skills. I am thankful to my college for providing the guidance and support throughout this process. I hope my experience will inspire future students to aim high and prepare diligently for such opportunities.

INTERNSHIPS

Where Learning meets Experience!

BATCH-2026

Securing this internship at Fidelity Investments is a significant milestone for me. I'm looking forward to gaining valuable experience, enhancing my skills, and making meaningful contributions!

PRANAV
3rd Year EEE

Grateful and humbled to have secured an internship at Saint Gobain! Excited for the opportunity and looking forward to work,learn and grow

VARSHA
3rd Year EEE

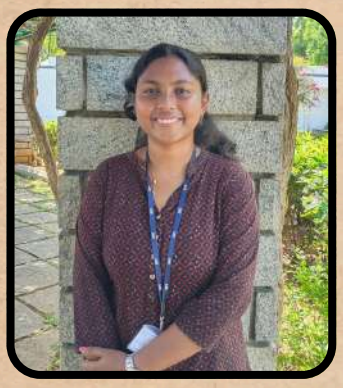
Pleased to share that I got selected in Saint Gobain for summer intern 2025. We had an online test followed by a group discussion and a technical interview in the end. Looking forward to learning from my internship!

SUPRAJA
3rd Year EEE

INTERNSHIPS

Where Learning meets Experience!

BATCH-2026



ESHA AGNES
3rd Year EEE

Grateful to have secured this internship opportunity at TVS looking forward to gain hands-on experience and learning from industry experts.

Grateful to have secured an internship at TVS Motors! Excited for the opportunity to learn, and grow in the automotive industry

ILLAKIYA
3rd Year EEE

VENESSA ANTON
3rd Year EEE

I am delighted to begin my internship journey with TVS Motor. This opportunity serves as a valuable stepping stone for growth, in my career

Grateful for the opportunity at TVS and excited to gain valuable industrial experience!"

MAHATHI
3rd Year EEE

ALUMNI CONNECT

Bringing Back the College Memories!

The Art of Selling Yourself!

Vikrant C (IIML)
Batch of EEE 2017
Product Manager
Chargebee

The Power of Storytelling: Why Selling Yourself Matters in Every Career Path

If you had told my younger self—the one designing solar power plants for IIT Madras a few years ago—that I'd one day be working in the payments industry, I would have laughed it off. After all, what does electrical engineering have to do with digital transactions, fintech, and global money movement? But here I am, having taken a detour through IIM Lucknow and now working as a Product Manager in the payments space, ensuring that all your online shopping spree doesn't end with a "Transaction Failed" message. But the real lesson from this journey isn't about shifting industries. It's about something far more universal - the ability to sell yourself and tell your story

The Interview Question I Thought Needed No Preparation

During my placement drive at SSN, I found myself stuck in a frustrating cycle—reaching the final round in nearly 10 interviews, only to fall short each time. I believed that I had the skills, the knowledge, and the drive, yet something was missing.

At the time, I didn't realize it, but looking back, it's clear - I had absolutely no clue how to sell myself. I walked into interviews thinking my resume would do the talking. I believed that the classic "Tell me about yourself" question was just a warm-up, something you answer casually before getting into the real discussion. Big mistake.

That's when reality hit me—those first 30 seconds were everything. They weren't just a formality; they were my one chance to grab attention, spark curiosity, and set the tone for the rest of the conversation. And there I was, rambling through unstructured responses, giving interviewers no reason to remember me over the next candidate.

So, I changed my approach. Instead of just listing out my achievements, I started framing my journey as a story—highlighting challenges, learnings, and impact. Suddenly, the same skills and experiences that once failed to get me across the finish line now made me stand out. From that point forward, I cleared every interview I attended whether it was for my IIM admission, my MBA summer internship, or even my most recent job switch.

Why Storytelling Matters

The world doesn't just hire people with great resumes; it hires people who can communicate why they matter. Your skills and experiences are important, but what sets you apart is how you present them.
No matter how skilled or knowledgeable you are, your success ultimately depends on how well you communicate your value. Whether you're applying for your first internship, your first job, or your first PG opportunity abroad, the ability to present yourself effectively can make all the difference. Recruiters and decision-makers come across countless candidates with similar qualifications. What sets you apart is not just what you have done, but how you tell your story—how you frame your experiences, highlight your impact, and make people see why you matter.

Even in technical roles, storytelling plays a crucial part. It's not just about coding, research, or problem-solving; it's about explaining your thought process, making complex ideas understandable, and influencing decisions. The best professionals—whether they are engineers, researchers, or managers—are those who can translate their skills into compelling narratives.

The good news? As someone who is still in your 2nd, 3rd or 4th year of college, you are at the perfect stage to start building this skill. Whether you're leading a club, organising an event, presenting a project, or even networking with alumni, every interaction is an opportunity to practice. The sooner you master the art of selling yourself, the easier it becomes to stand out in interviews, seize opportunities, and shape your career on your terms.

How SSN Helped Me Master the Art of Selling Myself

At SSN, I didn't just gain technical knowledge—I unknowingly picked up the foundations of storytelling and self-presentation through the various roles I took on.
During my 2nd, 3rd, and 4th years, I held multiple positions as part of Instincts and Invente, our flagship cultural and technical events. At the time, I thought of them as just leadership opportunities. But in hindsight, they were my first lessons in selling ideas, working with diverse teams, and making people believe in a vision.

- Coordinating with people taught me how to communicate effectively—whether it was convincing a sponsor, leading a team, or handling last-minute crises.
- Working as a team showed me how to align different perspectives and sell an idea to a group.
- Thinking outside the box helped me understand that creativity isn't just for marketing—it's a critical part of standing out in any field.

Back then, I didn't realise how crucial these skills were. But when I stepped into job interviews, MBA admissions, and even corporate life, I saw how the ability to present myself, frame my experiences, and influence decisions mattered just as much as technical expertise.
That's when it clicked—selling yourself isn't about exaggeration; it's about making people see your value in a way they relate to and remember.

ALUMNI CONNECT

Bringing Back the College Memories!

Final Thoughts

If I had one piece of advice for current SSN students, it would be this: Invest time in learning how to tell your story. Whether it's an interview, a presentation, or even an informal conversation—your ability to sell yourself will define your success.

So, start today. Think about what makes you unique. Frame your journey in a way that resonates. And the next time you're in a room full of decision-makers, make sure they remember you. If you're a student preparing for interviews and wondering how to craft your story, feel free to reach out. I'd be happy to share what I've learned and help you navigate the process. After all, I've been in your shoes—not once, but ten times.

VISION & MISSION

Our Journey's final destination

Institute Vision

- To be a world class institution for technical education and scientific research for public good.

Institute Mission

- Make a positive difference to society through education.
- Empower students from across socio-economic strata.
- Be a centre of excellence in education in emerging technologies in accordance with industry and industrial trends.
- Build world class research capabilities on par with the finest in the world and broaden students' horizons beyond classroom education.
- Nurture talent & entrepreneurship and enable all-round personality development in students.

Department Vision

- To inculcate the right mix of knowledge, attitudes, and character in students to enable them take up positions of responsibility in the society and make significant contributions.
- To produce talented Electrical and Electronics Engineers through quality education, to be a center of excellence and become a source of cutting edge technologies in the field of Electrical and Electronics Engineering.
- To become a preferred partner in the area of collaborative research among national and international organizations.

Department Mission

- To achieve global eminence in the field of Electrical and Electronics Engineering.
- To be a highly preferred destination comparable with the best in the world for students aspiring to enter the field of Electrical and Electronics Engineering.
- To nurture the talent and to facilitate the students with all round personality development to make a positive difference to society through education.