



KSR College of
Engineering

AN AUTONOMOUS INSTITUTION

NAAC
ACCREDITED **A++**

NBA
ACCREDITED
PROGRAMMES




25
YEARS
2001 – 2026
Celebrating
Academic Excellence

DECEMBER


IMPULSE

DEPARTMENT OF EEE


VISION OF THE INSTITUTE

-  To become a globally renowned institution in Engineering and Management, committed to providing holistic education that fosters research, innovation and sustainable development.

MISSION OF THE INSTITUTE

-  Deliver value-based quality education through modern pedagogy and experiential learning.
-  Enrich Engineering and Managerial Skills through cutting-edge laboratories to meet evolving global demands.
-  Empower research and innovation by integrating collaboration, social responsibility, and commitment to sustainable development.

VISION OF THE DEPARTMENT

-  To produce competent Electrical and Electronics Engineers driving sustainable solutions through quality education and research.

MISSION OF THE DEPARTMENT

-  Provide transformative education in Electrical and Electronics Engineering by integrating modern pedagogy and technology-enhanced learning.
-  Deliver holistic, value-driven education through cutting-edge laboratory facilities that meet the evolving needs of global industries.
-  Promote collaborative and interdisciplinary research to develop sustainable solutions.

Message from CHAIRMAN



Thiru. R. SRINIVASAN, B.B.M., MISTE
Chairman

Education is the foundation of a brighter tomorrow, and this Newsletter reflects the vibrant spirit of our learners. May it continue to inspire creativity, excellence, and lifelong curiosity in every reader.. In the recent times, the role of KSRCE is to carry out proactive research and development activities to make the students as well as faculty member's intellectuals, which are very challenging and demanding. It is of great significance that this magazine is going to deliberate upon It will definitely explore new areas of practice and enhancing quality of professional services.

I am sure this magazine will be a milestone in ensuring the highest standards in this profession. I wish the organizers the very best in this and all their other endeavors.

I am eagerly looking forward to seeing you and enjoying this magazine in KSRCE Campus.

With best wishes

Mr. R. SRINIVASAN

Chairman

KSR Educational Institutions

Message from DEAN



Dr. M. VENKATESAN, M.E., Ph.D.,
Dean

It is with immense pride and joy that I present to you the latest edition of our EEE Department Newsletter a vibrant reflection of the creativity, talent, and achievements of our students and staff.

Over the past one decade, KSRCE has served the young engineering aspirants of our nation by providing state-of-art facilities and well knowledgeable faculty members.

The Institute has held high the lighted torch of teaching and learning and has not failed in its duty in the hour of need. The students imbibe qualities of an excellent teacher and researcher to set academic standards. The last couple of years marked several milestones in the history of KSRCE.

Technology is constantly evolving, and staying up to date with the latest trends can help us stay competitive in the job market, give you access to new features and capabilities.

I congratulate the editorial team, contributors, and all those who have worked tirelessly to bring this edition to life. Let this magazine serve not only as a record of our accomplishments but also as an inspiration for the journeys yet to come.

With best wishes
Dr. M. Venkatesan
Dean

Message from PRINCIPAL



Dr. P. MEENAKSHI DEVI, M.E., Ph.D.,
Principal

It gives me immense pleasure in presenting the department NEWS LETTER for the session 2024 - 2025.

Today KSRCE is not just a college but is a FAMILY in which the educational community, the management, staff, students, parents and alumni work united to foster this FAMILY SPIRIT. Creating industry ready, globally competitive students and socially acceptable human beings as citizen of India. I heartily congratulate Prof. Dr. S. Ramesh, HoD/EEE and his team members who have taken pains to bring out this NEWS LETTER.

“Education is the manifestation of perfection already in man”

-Swami Vivekananda

With best wishes
Dr. P. Meenakshi Devi
Principal

Message from HoD



Dr. S. Ramesh
Head of the Department

As the summer sun glows pleasantly to heat up everything, the creativity and talents in every techie of our department is thirsty to project his/her talents and skills. On behalf of the editorial board, proudly presenting IMPULSE '2K25 designed with a vision to quench the thirst by layering a platform for innovative ideas.

The soul of creativity lies in the dream to unveil inherent talent. The power of this dream fueled us forward and made IMPULSE '2K25, a reality. We are thankful to all who contributed to fulfill our dream. First and foremost, let me thank our chairman who was always with us, to provide a wonderful platform to nourish the talents. I extend my sincere thanks to our Dean, Principal who were always in the forefront to encourage and inspire to execute wonderful ideas. I thank all students and faculty coordinators for their overwhelming support to bring out IMPULSE '2K25. I also wish all outgoing students of 2025 a bright future ahead

“Dream, Dream, Dream transfer into thoughts and thoughts result
in action Success will be yours.” -Dr. A. P. J. Abdul Kalam

With best wishes
Dr. S. Ramesh,
Head of the Department

IMPULSE

CHIEF PATRON

Shri. R. SRINIVASAN
Chairman, KSR Educational Institutions

Mr. K. S. SACHIN
Vice Chairman, KSR Educational Institutions

PATRON

Dr. M. VENKATESAN,
Dean,
K. S. R. College of Engineering

Dr. P. MEENAKSHI DEVI,
Principal,
K. S. R. College of Engineering

ADVISORS

Dr. R. JEYABHARATH,
Mentor, EEE

Dr. S. RAMESH,
HoD, EEE

EDITORIAL BOARD MEMBERS

FACULTY COORDINATORS

Mrs. K. YAMUNA, AP/EEE,
Mr. S. DHIVAGAR, AP/EEE,

STUDENT COORDINATORS

T.MUGILAN III-EEE
K. MANOJ III-EEE

Programme Educational Objectives (PEOs)

The graduates of the programme will be able to

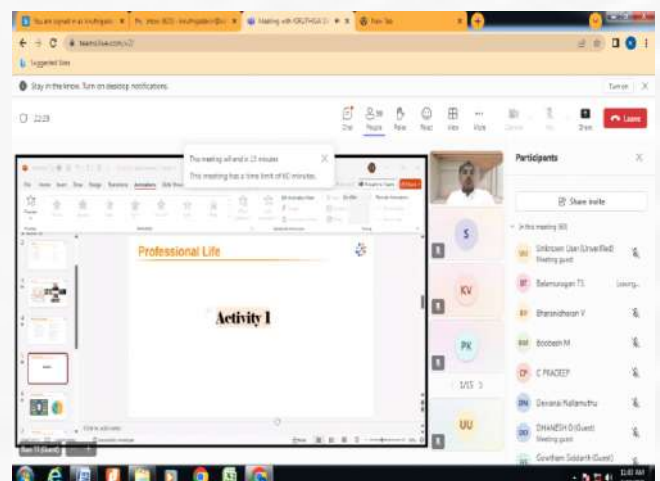
- PEO 1 : Employability and Higher studies:** Excel in professional career and/or higher education by acquiring knowledge in basic engineering, science and mathematics in Electrical and Electronics Engineering.
- PEO 2 : Sustainable Engineering Solutions:** Develop and apply engineering solutions for solving contemporary social and human issues with realistic constraints through modern tools.
- PEO 3 : Interpersonal and Ethical Proficiency:** Exhibit professional and ethical standards, effective communication skills, teamwork spirit and multidisciplinary approach for successful careers in Indian and Multinational companies and to engage in lifelong learning.

DEPARTMENT ACTIVITIES



Seminar on “Emerging Trend in Electric Vehicle in Indian Perspective ” on 10.01.2025.
The Resource person Dr.C. Bharatiraja, Professor, SRM Institute of science and Technology, Kattankulathur, Chengalpattu.

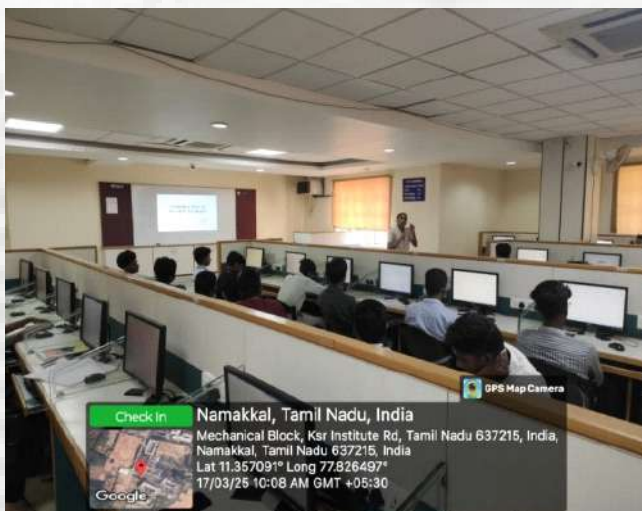
Seminar on “Career Kickstart: Turing Passion into Profession” on 22.02.2025.
Mr. T.T. Ravikumar, Head Quality Assurance, Eurofins Consumer, product Testing, India.





One-day awareness program on Electrical Hazards and safety measure for technical staff measures on 30.05.2025. The Resource person Dr.R. Sankar Ganesh, Associate Professor, Department of Electrical and Electronics Engineering, K.S.R. College of Engineering.

Technical Quiz on 25.01.2025 organised by Department of EEE, K.S.R.College of Engineering.



Workshop on “Powering the Future: Generative AI for Electrical Engineers” on 17.03.2025 & 18.03.2025,organised by Industry – Institute Interaction Cell, K.S.R.College of Engineering . The Resource person Generative AI Team, KSRCE

STUDENTS CORNER



CAREER LAUNCHPAD



VASANTH J
Robert Bosch
5.0 LPA



BALACHANDAR M
Envision Energy
4.5 LPA



PREM A
Data Patterns India Private Limited
4.20 LPA



BAVITHRA
KONE Elevator India Private Limited
4.0 LPA



MEGAVARSHINI M
VA Tech Wabag
4.04 LPA



KAVIYA R
B/S/H
3.4 LPA



KARTHIKA J
B/S/H
3.4 LPA



MOUMITHA P
B/S/H
3.4 LPA



RAGAVAN N
Essay Petroleum India Private Limited
3.10 LPA



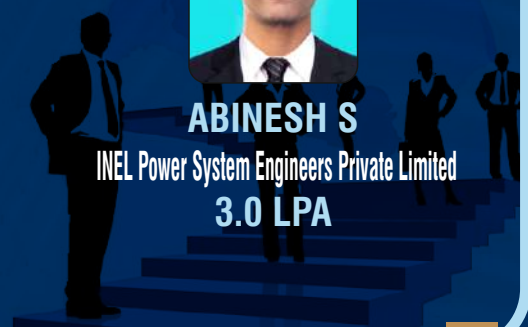
DEEPAKKUMAR
INEL Power System Engineers Private Limited
3.0 LPA



DINESH S
INEL Power System Engineers Private Limited
3.0 LPA



ABINESH S
INEL Power System Engineers Private Limited
3.0 LPA



AWARDS



Raghul N. S, Thibish D, and Nithin K, II - EEE students, won Third prize in the “PRASKLA FUTURE X” Hackathon organised by Department of Computer Science and Engineering, K.S.R.College of Engineering.

S. Sachin, R. Mahashree, and S. Gobhigharani, II EEE students, won First prize in the Demo Day for Innovative Ideas organised by centre for Innovation and Incubation, K.S.R.College of Engineering.



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MAAD ACCREDITED A++ NDA
Congratulations
GOLD, ELITE SILVER & ELITE GRADE ACHIEVERS
DEPARTMENT OF EEE

 Dr. S. SENTHIKUMAR Assistant Professor 83 Elite Silver Introduction to Industry 4.0 and Industrial Internet Of Things	 Dr. M. RAMASAMY Associate Professor 73 Elite Effective Engineering Teaching in Practice	 Dr. S. NAGAPAVITHRA Assistant Professor 70 Elite Design Thinking-A Primer
 Mrs. R. SACSITHRA Assistant Professor 69 Elite Design Thinking -A Primer	 Mrs. G. PUSHPALATHA Assistant Professor 66 Elite Outcome-Based Pedagogic Principles for Effective Teaching	 Dr. S. ANAND Assistant Professor 50 Successfully Completed Supramolecular Chemistry-I
 Dr. J. GANESH MOORTHY Assistant Professor 49 Successfully Completed Principles of signals and systems		

We are delighted to congratulate the faculties on their outstanding accomplishments in NPTEL for the academic year 2024-2025
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NPTEL Course Achievements by EEE Department Faculty for the Academic Year 2024–2025 (Even Semester)

AWARDS

NPTEL Course Achievements by EEE Department Students for the Academic Year 2024–2025 (Even Semester)



Dr. S. Nagapavithra received an award from Anna University, Chennai, for publishing in a Q1 journal.

Dinesh Kumar V, a third -year student, got an Internship form Global Knowledge Technologies, Bengaluru.



SPORTS



Sriram P and Dhamotharan C, Department of EEE Students, received second place in Kabbadi at the Thiru Karumuttu Thiagarajar Chettiar 11th Memorial State-level competition, organized by Nandha Engineering College, Erode.

FACULTY ACHIEVEMENTS

ISTE NATIONAL CONFERENCE GRANT-IN AID DETAILS



Dr.S.Ramesh received a grant of Rs. 1,00,000 under the scheme of Indian Society for Technical Education (ISTE) for organizing National Conference on New Horizons in Interdisciplinary Societal Innovations in Engineering (NHISIE-2025).

FACULTY PUBLICATIONS - 2025-26



P. Thilagavathi, S. Senthil Kumar, D. Gowthami, and A. Sridevi have published a journal article titled “All-Pass Transformation-Based Variable Digital Filter Design Using Low-Power Approximate Floating-Point Adder and Low-Power Compressor-Based Approximate Multiplier” in *Integration, the VLSI Journal*, Vol. 102, Article 102344, January 2025.



N. Loganathan, P.S. Mayurappriyan, K. Lakshmi, S. Madhankumar have published a journal article titled “Robust optimization-based energy management system for integrating renewable energy resources and smart grid technology” in *Sustainable Energy Technologies and Assessments*, Vol. 75, pp. 104235, <https://doi.org/10.1016/j.seta.2025.104235>, February 2025



P. Rajakumar, P. M. Balasubramaniam, Mohammed Hasan Aldulaimi, Arunkumar M, S. Ramesh, Mohammad Mukhtar Alam & Qasem M. Al-Mdallal “An integrated approach using active power loss sensitivity index and modified ant lion optimization algorithm for DG placement in radial power distribution network” in *Scientific Reports*, Vol.15, pp.10481 (2025). <https://doi.org/10.1038/s41598-025-87774-2>, March 2025.



Samuel Raj Daison Stallon, Ramanpillai Anand, Ramasamy Kannan, Seenakesavan Rajasekaran, have published a journal article titled “Optimal detection and classification of grid connected system using MSVM-FSO technique” in *Environmental Science and Pollution Research* Vol. 31, pp.31064–31080, <https://doi.org/10.1007/s11356-024-32921-x>, April 2024.



Sakthivel Aruchamy Muthukumar Kandasamy, ; Sureshkumar Kumaravel; Ramesh Senniyappan; U. Arun Kumar; Nirmala Muthusamy have published a journal article titled “Energy management in alternating current microgrids with renewable energy sources integration using giant trevally optimizer-self-adaptive physics-informed neural networks” in Journal Renewable Sustainable Energy, Vol.17, pp.024105 ,April 2025



Senthil Kumar S, Pravin Kumar, M, Karthick S, Nilabar Nisha U, have published a journal article titled “Enhanced Pneumonia Detection Using Ensembled Deep Neural Networks” in Journal of Machine and Computing , Vol. 05, No. 02, pp. 1152-1159
DOI: 10.53759/7669/jmc202505091, April 2025

FACULTY PATENT

- Dr.M.Vijayakumar published an Patent titled “Earth Auger Machine Powered By Solar PV” Application No:202541010987 Publication Date:14.02.2025
- Dr.S.Ramesh, published an Patent titled “ Crop Monitoring By Drone ” Application No:202541010989 Publication Date:14.02.2025
- Dr.J.Ganesh Moorthy published an Patent titled “Solar Powered Bird Repeller” Application No: 202541010992, Publication Date:14.02.2025
- Dr.R.Jeyabharath published an Patent titled “ Voice-Activated Smart Home Automation System ” Application No: 202541011043, Publication Date:14.02.2025
- Dr.P.Veena published an Patent titled “ Vehicle turning detection system with alarm integration ” Application No: 202541011046, Publication Date:14.02.2025
- Dr.P.Veena published an Patent titled “ IOT Based Safety Monitoring System For Underground Workers With Two Way Communication ” Application No: 202541011047, Publication Date:14.02.2025
- Dr.K.Lakshmi published an Patent titled “Fingerprint Door Lock System With Accident Detection ” Application No: 202541011051, Publication Date:14.02.2025

FACULTY PATENT

- Dr.M.Ramasamy published an Patent titled “Smart Irrigation System For Precision Farming ” Application No: 202541011052, Publication Date:14.02.2025
- Dr.V.Ravi published an Patent titled “Floor water detection robot without camera ” Application No: 202541011053, Publication Date:14.02.2025
- Dr.K.Sathiyasekar published an Patent titled “Smart Vertical Farming Using Arduino ” Application No: 202541011055, Publication Date:14.02.2025
- Mrs.K.Yamuna, published an Patent titled “An Innovative Digital Platform for Farmers To Transport Tie Produce F21H-farmers to home” Application No: 202541001914,Publication Date:14.01.2025
- B.Yuvarani, published an Patent titled “ AI systems enhancing the efficiency and management of renewable energy grids” Application No: 202541001913,Publication Date:14.01.2025

JOURNAL PAPER PUBLICATIONS BY THE FACULTY

Academic Year 2025-2026

SCI Indexed Journals 11

Scopus Indexed Journals 06

SCOPUS INDEXED INTERNATIONAL CONFERENCE PAPER PUBLISHED

No. of Conference Paper Published 13

PATENT DETAILS

No. of Utility Patent Published 13

BOOK AND BOOK CHAPTER DETAILS

No. of Book Published 03

No. of Book Chapter Published 05

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KSR KALVI NAGAR, TIRUCHENGODE.

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