



KSR College of
Engineering

AN AUTONOMOUS INSTITUTION

NAAC
ACCREDITED **A++**

NBA
ACCREDITED
PROGRAMMES




25 YEARS
2001 - 2026
Celebrating
Academic Excellence

JULY - DECEMBER

IMPULSE

DEPARTMENT OF EEE

VISION OF THE INSTITUTE

-  We envision to achieve status as an excellent educational institution in the global knowledge hub, making self-learners, experts, ethical and responsible engineers, technologies, scientists, managers, administrators, and entrepreneurs who will significantly contribute to research and environment-friendly sustainable growth of the nation and the world.



MISSION OF THE INSTITUTE

-  To inculcate in the students' self-learning abilities that enable them to become competitive and considerate engineers, technologists, scientists, managers, entrepreneurs, and administrators by diligently imparting the best of education, nurturing environmental and social needs.
-  To foster and maintain a mutually beneficial partnership with global industries and Institutions through knowledge sharing, collaborative research, and innovation.

VISION OF THE DEPARTMENT

-  We envision a department that leads in the field of Electrical and Electronics Engineering through education, training and research committed to influence the direction of the field and make a constructive contribution to society wherein the Department can thrive and grow.

MISSION OF THE DEPARTMENT

-  DM 1: To create professionally competent and resourceful Electrical and Electronics Engineers.
-  DM 2: To promote excellence in teaching, pioneering research and innovation for a sustainable growth of the nation and enrichment of humanity.

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 **PRINCIPAL**



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

It is with immense pride and joy that I present to you the latest edition of our ECE 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
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

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Shri. R. SRINIVASAN

Chairman, KSR Educational Institutions

Mr. K. S. SACHIN

Vice Chairman, KSR Educational Institutions

PATRON

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Principal,

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Mentor, EEE

Dr. S. RAMESH,
HoD, EEE

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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

MoU'S



The Department of Electrical and Electronics Engineering, KSRCE, signed an MoU with Minnotra Energy India Pvt. Ltd., Chennai, on 11th September 2024. Mr. G. Mohana Sundaram of Minnotra Energy India Pvt. Ltd., Chennai, represented the company.

The Department of Electrical and Electronics Engineering, KSRCE, signed an MoU with Coral Manufacturing works India private limited(CMW), Erode, on 18th October 2024. Mr. R. Sivaram, General Manager – HR Coral Manufacturing Works India Private Limited, Erode





ATAL FDP on AI's potential applications energy management and energy storage systems: a technological revolution on 09.09.2024 to 14.09.2024, Organised by department of Electrical and Electronics Engineering, K.S.R. College of Engineering.

Seminar on “Harnessing Research for Effective Product Development and Innovation ” on 10.08.2024 organsied by Department of Electrical and Electronics Engineering.The Resourse Person Mr.R.Pravin, M.E, Lead Technical, SAN Technovation, Perundurai



Seminar on “ Innovative Career Paths in The Era of Industrial Automation .” on 24.08.2024, organsied by Department of Electrical and Electronics Engineering. The Resourse Person Mr.J.K.Eswararunprakash Automation Engineer, B.S Teqtronic,Chennai.

Seminar on “Ensuring Electrical Safety in High Voltage Systems: Mitigating Risks for Sustainable Energy Production and Consumption” on 18.10.2024.The Resourse Person Mr. R.Gokul Raaju, Safety Officer, Coral Manufacturing Works India Private Limited, Erode.



Seminar/FDP



Seminar on “Accelerating Innovation: Exploring opportunities in embedded systems.” on 24.08.2024 , organised by Department of Electrical and Electronics Engineering. The Resource Person Mr.S.Karthick, Assistant Professor,Department of EEE,K S R institute for Engineering and Technology, Tiruchengode



The Department of Electrical and Electronics Engineering organized the two-day event SPRINGFEST 2K24 on 27.09.2024.



Seminar on “From Ideas To Impact: your Roadmap To Innovation Competition” on 25.10.2024. The Resource Person Mr.S.Dhivagar, Assistant Professor, Department of Electrical and Electronics Engineering, K.S.R.College of Engineering.

Industrial Visit

Third Year students have undergone Industrial Visit to Mettur Thermal Power station, Mettur on 30.09.2024





Second Year students have undergone the Industrial Visit to Elanagar Substation on 10.08.2024

AWARDS



Rohith M, a third-year student, received the Medallion of Excellence award from the Deputy Chief Minister, Government of Tamil Nadu during 14.05.2025 to 19.05.2025

Aashiq Akram L and Elavarasan M, students of the Electrical and Electronics Engineering Department, received the Best Paper Presentation Award on 17.04.2025



FACULTY ACHIEVEMENTS

ATAL FDP GRAND - IN AID DETAIL



Dr.S.Ramesh, Dr.M.Vijayakumar received a grant of Rs. 3,50,000 under the scheme of AICTE Training and Learning (ATAL) Academy for organising Faculty Development Program on Artificial Intelligence's Potential Applications In Energy Management and Energy Storage Systems: A Technological Revolution.

FACULTY PUBLICATIONS - 2024-25



Kanagaraj Nallaiya Gounder, Ramasamy Murugesan, Vijayakumar Madhaiyan, Obaid Aldosari have published a journal article titled “A high gain quasi Z-source based full-bridge isolated DC-DC converter with extendable structure for grid-tied/standalone PV system” in IET Power Electronics, Vo.17, pp. 2134–2149 (2024). <https://doi.org/10.1049/pel2.12779>, September 2024



J. Ganesh Moorthy, Jerome Moses M, and Kalaiselvan N have published a journal article titled “Active power regulation in low voltage grid-tied inverters for rooftop solar PV systems: Progress and future directions” in Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Vol. 46, no.1, pp. 81–104. <https://doi.org/10.1080/15567036.2024.2392891>, September 2024



Senthil Kumar S, Nada Alzaben, Sridevi A, Ranjith V have published a journal article titled “Improving Quality of Service (QoS) in Wireless Multimedia Sensor Networks using Epsilon Greedy Strategy” in Measurement Science Review, Vol. 24, No. 3, pp.113-117, DOI: 10.2478/msr-2024-0016, August 2024



Sharath Kumar D R V A, Rajakumareswaran V., Katuri Rayudu, Vasanthi A., Tharani B., Senthil Kumar R. have published a journal article titled “Enhancing Ransomware Detection in Cybersecurity: A Comprehensive Ensemble Approach” in Journal of Electrical Systems, Vol. 20 No. 10s, pp. 5315-5324 DOI: <https://doi.org/10.52783/jes.6235>, September 2024



Ganesh Moorthy Jagadeesan, Arivoli Sundaramurthy, Senthil Kumar P, Sivapragasam J, Sathiya D, Perumal K have published a journal article titled “Design and Implementation of Energy-Efficient Lighting Systems in Warehouse Environments Using Dialux” in VDI Z Integrierte Produktion, Vol. 11, no. 10, pp.35-59, DOI: 10.37897.VZIPJ.2024.V11I10.24.40816, September 2024



Ashish A. Mulajkar, Varsha D. Jadhav, Dhananjay R. Dolas, S. Gowtham, Madhuri S. Bhagat, Harshal Patil, P. Satishkumar have published a journal article titled “Journal of Autonomous Intelligence” 5, pp.1-17, DOI: 10.32629/jai.v7i5.1637, July 2024

FACULTY AS PARTICIPANTS IN WORKSHOPS/FDPS/CONFERENCE

- K.Yamuna, attended a five days FDP on “Electric Vehicle Systems and Control”, organized by NITTR, Chennai, Chennai, during 08.07.2024 to 12.07.2024
- K.Yamuna A.Vasanthi B.Yuvarani Dr.E.Vani attended a six days FDP on “Emerging Trends in Advanced Engineering Research: Opportunities and Challenges”, organized by Sree Sakthi Engineering College, Karamadai, Coimbatore, during 01.07.2024 to 06.07.2024
- S.Dhivagar, M.Subramani, S.Gowtham, E.Kannan, attended a six days FDP on “Essential skills for Professional Development in Higher Education”, organized by Star International Foundation For Research and Education, during 01.07.2024 to 06.07.2024
- S.Gowtham, attended a six days FDP on “Recent Trends in Computing 4.0”, organized by Vishwakarma Institute of Technology, Pune, during 08.07.2024 to 13.07.2024.
- Dr.C.Santha Kumar, attended a six days FDP on “Design of Electric Vehicle Charging System”, organized by Vishwakarma Institute of Technology, Pune, during 22.07.2024 to 27.07.2024.

- P Manikandan ,Dr S Ramesh, Dr R Sankarganesh, attended a six days FDP on “Hybrid Electric Vehicles Empowering Sustainable Mobility Through Innovative Engineering”, organized by Mahendra Institute of Technology, Mallasamudram- ATAL FDP, during 19.08.2024 to 24.08.2024.
- Dr.S.Rajasekaran, attended a six days FDP on “Enhancing Teaching Methodology with MATLAB”, organized by K.S.R.College of Engineering, during 24.8.2024,31.9.2024.
- B.Yuvarani, attended a six days FDP on “Artificial Intelligence's Potential Applications In Energy Management And Energy Storage Systems: A Technological Revolution”, organized by K.S.R.College of Engineering, during 09.09.2024 to 14.09.2024.
- Dr.M.Ramasamy Dr.V.Ravi Dr.M.Vijayakumar V. Kiruthiga Devi A.Ravi, attended a six days FDP on “Integration of AI and IoT for design of Solar Powered Electric Vehicle charging infrastructure for Greener future”, organized by Erode Sengunthar Engineering College, during 21.09.2024 to 28.09.2024
- Dhivagar S, M.Subramani, attended a six days FDP on “Research Perspectives on Smart and Sustainable Energy Management Solutions”, organized by PSG Institute of Technology and Applied Research, during 16.12.2024 to 21.12.2024
- S.Gowtham, E.Kannan V.Kiruthiga Devi, attended a six days FDP on “Integration of AI and IoT for design of Solar Powered Electric Vehicle charging infrastructure for Greener future”, organized by Erode Sengunthar Engineering College, during 21.09.2024 to 28.09.2024
- M A Stephenraj, attended a six days FDP on “Artificial Intelligence and Optimisation Techniques using MATLAB”, organized by NITTTR - Chandigarh, during 07.10.2024 to 11.10.2024
- Dr.Ganesh Moorthy J, attended a six days FDP on “Green Technology”, organized by Periyar University Salem- ATAL FDP, during 03.11.2024 to 09.11.2024
- R Sacithraa, attended a six days FDP on “Indian Knowledge System”, organized Periyar University Salem- ATAL FDP, during 30.09.2024 to 06.10.2024
- K Meenatchi, attended a six days FDP on “A Comprehensive overview of Artificial Intelligence Technologies for Quality control in Semiconductor Industries”, organized by Sasurie college of engineering. Vijayamangalam, during 02.12.24 to 7.12.24.

- V.Kiruthiga Devi Dr.S.Senthil Kumar Dr.C.Santha Kumar, attended a six days FDP on “Renewable Energy and Electric Vehicles Technology for Sustainable Future”, organized by J.J.College of Engineering and Technology, during 16.12.2024-21.12.2024
- Dr P Veena, Dr R Jeyabharath S.Karthik, attended a six days FDP on “A Comprehensive overview of Artificial Intelligence Technologies for Quality control in Semiconductor Industries”, organized by Sasurie College of Engineering, Vijayamangalam, during 2.12.2024 to 7.12.2024

AWARDS RECEIVED BY STUDENTS

FIRST PRICE

PAPER PRESENTATION

JANARTHANAN S

VELLAR COLLEGE OF ENGINEERING & TECHNOLOGY
Erode
13.09.2024

FIRST PRICE

PAPER PRESENTATION

BHUVANESHWARAN.K

ADHI COLLEGE OF ENGINEERING & TECHNOLOGY, CHENNAI
13.09.2024

SRI SAI RANGANATHAN ENGINEERING COLLEGE, CHENNAI
04.10.2024

RP SARATHY INSTITUTE OF TECHNOLOGY, SALEM
25.10.2024

FIRST PRICE

PAPER PRESENTATION

DINESHKUMAR

VELLAR COLLEGE OF ENGINEERING & TECHNOLOGY, ERODE
13.09.2024

SECOND PRICE

PAPER PRESENTATION

RAMANATHAN G

VINAYAKA MISSIONS RESEARCH FOUNDATION
SALEM
26.09.2024

SECOND PRICE

PAPER PRESENTATION

HARI ANNAMALAI V R

PAAVAI ENGINEERING COLLEGE, RASIPURAM
28.11.2024

SECOND PRICE

PAPER PRESENTATION

BHUVANESHWARAN.K

SALEM COLLEGE OF ENGINEERING & TECHNOLOGY, SALEM
29.09.2024

VELLAR COLLEGE OF ENGINEERING & TECHNOLOGY, ERODE
05.10.2024

SPORTS

Namakkal District
Athletic Association

P.KARTHICK

**BEST ATHLETICS U20-
WON GOLD MEDAL IN
OPEN ATHLETIC
CHAMPIONSHIP
04.09.2024**

SILVER MEDAL

P.KARTHICK

**CM TROPHY
NANDHA ENGINEERING
COLLEGE, ERODE
24.09.2024**

BRONZE MEDAL

LAVANYA D

**CM TROPHY
NANDHA ENGINEERING
COLLEGE, ERODE
24.09.2024**

3rd Position

SRIRAM P

**KONGU ENGINEERING
COLLEGE, ERODE
23.09.2024**

**1st place in 7th State
Level Championship**

S. NANNAN

**THAMIZHAM SILAMBAM
ACADEMY,
CUDDALORE
16.10.2024**

Gold Metal

P. KARTHICK

**ANNA UNIVERSITY
ZONAL, TRICHY
05.11.2024**

1st Position

SRIRAM P

**KSREI, NAMAKKAL
05.11.2024**

SILVER MEDAL

SRIRAM P

**ANNA UNIVERSITY
ZONAL, TRICHY
05.11.2024**

3rd position

SRIRAM P

**PAAVAI ENGINEERING
COLLEGE,
NAMMAKKAL
26.11.2025**



IMPULSE



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KSR KALVI NAGAR, TIRUCHENGODE.

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