



## **VISION OF THE INSTITUTE**

We envision to achieving 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**

To produce excellent and competent software professional, researchers and responsible engineers, who can significantly contribute to environment friendly societal industry through quality education.

## **MISSION OF THE DEPARTMENT**

- To make the students competitive and efficient in technical field through technological transformations' in Information Technology, by providing them advanced curriculum, infrastructure and nurturing human values.
- To provide an excellent forum for higher studies that leads to careers as Computer and IT professionals in the widely diversified domains of industry, government and academia.

# Message from CHAIRMAN



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

I am pleased to witness the launch of Next wave IT the official newsletter of the Information Technology Department at K.S.R. College of Engineering. In today's rapidly evolving digital landscape, it is inspiring to see the department taking proactive steps to keep students informed, engaged, and future-ready through such academic and creative endeavors. This newsletter serves as a vibrant platform to highlight the department's achievements in academics, research, student innovations, and industry interactions. It is a reflection of the commitment of the faculty and students towards excellence in the field of Information Technology.

I commend the department for its consistent efforts in nurturing young minds and cultivating an environment of inquiry, innovation, and integrity. My heartfelt congratulations to the editorial team for bringing out this issue and my best wishes for continued success in all future initiatives.

With best wishes  
**Mr. R. SRINIVASAN**  
Chairman  
KSR Educational Institutions

# Message from **PRINCIPAL**



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

It is with great pleasure that I share the latest edition of the IT Department Next wave IT, which showcases the remarkable progress, initiatives, and accomplishments of our students and faculty. Over the years, KSR College of Engineering has established itself as a hub of academic excellence, nurturing generations of aspiring engineers with a strong foundation in knowledge and innovation. Our department continues to strive toward excellence through dynamic teaching practices, robust research activities, and active student engagement. This newsletter is a testament to our collective efforts in embracing new technologies, promoting creativity, and fostering a culture of continuous learning. I commend the faculty, students, and the editorial team for their commitment and hard work in bringing out this informative and inspiring edition. I am confident that this publication will serve as a source of motivation for all, driving us toward even greater achievements in the future.

With best wishes  
**Dr. M. Venkatesan**  
Principal



# Message from HoD



**Dr. S. ANGURAJ., M.E., Ph.D.**  
**Associate Professor & Head**  
**Information Technology**

As the Head of the Department of Information Technology, I am delighted to collaborate with our dedicated faculty and enthusiastic students in bringing out this newsletter that showcases the activities and accomplishments of our department in a well-organized manner. This edition highlights our recent initiatives, including seminars, workshops, research publications, student projects, and industry collaborations. I also take this opportunity to extend my heartfelt gratitude to our esteemed alumni and industry partners, whose continued support and active engagement play a vital role in the growth and success of our department.

With best wishes  
**Dr. S. Anguraj**  
Associate Professor & Head  
Information Technology

# NEXT WAVE IT

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## STUDENT COORDINATORS

**S.DINESH /II-IT**  
**E.SRIRAM /II-IT**

# PUBLICATION DETAILS

Dr. G. Singaravel published a paper titled "A Data-Driven Approach to Dynamic Pricing: Solving Inventory and Competitor Challenges with AI in E-Commerce" in the International Journal of Research Publication and Reviews. vol.5, DEC 2024



Dr. G. Singaravel published a Q1-ranked paper titled "Quality of Service Aware Improved Coati Optimization Algorithm for Efficient Task Scheduling in Cloud Computing Environment" in the Journal of Engineering Research. vol.12, OCT-2024



S. Suganya published a paper titled "Enhancing Authentication Security by Integrating OTP Image Password with RSA Encryption" in the International Journal of Innovative Research in Computer and Communication Engineering. vol.6, SEP-2024



S.Suganya published a paper titled "Quantum Image Processing and Optimized Audio Steganography for Secure Data Communication in IoT Systems" in the International Journal of Research Publication and Reviews. vol.5, NOV-2024



Dr. T. Kavitha published a paper titled "Facile synthesis, characterization and optical properties of  $\text{Ag}_2\text{WO}_4$  incorporated g- $\text{C}_3\text{N}_4$  hybrid composites for  $\text{H}_2$  production" in the Journal of Materials Science: Materials in Electronics. vol.35, SEP-2024



Dr. T. Kavitha published a research paper titled "Evaluate the Ni ZnO/g  $\text{C}_3\text{N}_4$  Nanocomposite for Photocatalytic Degradation of Organic Defect Degradation and Antibacterial Activity" in the Journal of Cluster Science. vol.35, JUL-2024



# PROGRAMME ORGANIZED



**International Conference on Development of Intermediate Scale Quantum Computing(IC-DISQC'2024) held on 29th–30th August 2024.**

**The conference attracted around 120 participants, including faculty, researchers, and students. It provided a platform for knowledge exchange and discussions on advancements in quantum computing.**

**Dr. G. SINGARAVEL successfully organized the AICTE Training and Learning (ATAL) program on "Google AI-ML" held from 08.07.2024 to 13.07.2024. The program consisted of 32 hours of intensive training focused on Artificial Intelligence and Machine Learning.**

**This achievement reflects his commitment to advancing faculty expertise in cutting-edge technologies.**







Dr. G. Singaravel organized a National Level Technical Symposium, Asthra 2k24, held from 27th to 28th September 2024. The event witnessed enthusiastic participation, attracting 262 students from various institutions. It served as a vibrant platform for showcasing technical talent and fostering innovation among young minds.

## PATENT

A team of faculty members including Dr. Anguraj S, Dr. K. Balamurugan, T. Sathish Kumar, Dharani G, Suganya S, Mrs. M. Sasipriya, Samya Devi V, and T. Saran Sujai have collaboratively worked on an innovative project. Their invention, titled "AI and IoT Based Smart Parking in Urban Areas," addresses modern urban mobility challenges.

A team of faculty members, including Dr. P. Meenakshi Devi, R. Kavitha, P. Rajasekar, R. Sowmiya, Dr. K.P. Uvarajan, Dr. S. Anguraj, S. Sethupathi, and Dr. P. Shanmugasundaram, have contributed to an innovative research project titled "IoT-Based Mathematical & Statistical Prediction of Neural Disorder and Memory Mapping Technique in Health Care Management."

Dr. S. R. Menaka has published a utility patent titled "An Approach to Interpret Indian Sign Language Using Machine Learning" in September 2024.

Ms. T. Nandhini has successfully published a design patent titled "AI-Based Color Image Detection Device" in October 2024.

# NPTEL ACHIEVEMENTS

 <p><b>DR . R . MENAKA</b> Elite</p>	 <p><b>S . SUGANYA</b> Elite</p>	 <p><b>DR . K . BALAMURUGAN</b> Elite</p>
 <p><b>DR . R . KAVITHA</b> Elite + Silver</p>	 <p><b>R . KAVITHA</b> Elite</p>	 <p><b>V . SAMYADEVI</b> Elite</p>

## MoU / CENTRE OF EXCELLENCE

The IT Department signed an MoU with the Game Developer India Association, Hyderabad, on 11th October 2024 to strengthen industry-academia collaboration. The MoU includes launching an Industry Supported Course on Game Development and setting up a Centre of Excellence in Animation and Gaming. This initiative aims to equip students with industry-relevant skills and promote innovation in the field.

# Faculty Achievements

Dr. G. Singaravel was honored with the INSC Research Excellence Award 2024 by INSC International Publisher, Bangalore. The award was presented on 28th September 2024 in recognition of his outstanding contributions to research.



Dr. G. Singaravel was honored with the Rabindra Ratna Puraskar 2024 by the Ratna Puraskar National Committee, Veyil Foundation. The award is recognized by the Government of India, Ministry of Corporate Affairs. He received this prestigious recognition on 30th November 2024 for his outstanding contributions.



Mrs. R. Kavitha was honored with the Best Outstanding Professor Award by the Swami Vivekanand Adarsh Ratna Samman on 3rd December 2024. This prestigious recognition highlights her excellence in teaching and dedication to academic development. Her achievement brings pride to the institution and serves as an inspiration to fellow educators.

# EXTENSION ACTIVITY & OUTREACH PROGRAM



On 29th November 2024, a Tree Plantation drive and the “Young Mind Big Ideas” Startup Programme were organized for Higher Secondary students. The event was conducted at Mallasamudram Boys Hr. Sec. School to promote environmental awareness and entrepreneurial thinking among youth.





# INTERNATIONAL / NATIONAL CONFERENCE

**Ms. T. Nandhini presented a paper titled "Enhancing Tobacco Plant Health through AI-driven Disease Detection and Precision Farming" at an International Conference organized by Taylor & Francis in November 2024.**

**Ms. K. Shanmuga Priya presented a paper titled "Spatio-temporal Based Bank Transactional Network Behaviour Analysis to Detect Suspicious Activities" at an International Conference organized by Taylor & Francis in November 2024.**

## SPORTS ACHEIVEMENTS BY STUDENTS



**Abishek A, First Year B.Tech IT student, won Second Prize in the Trichy District Kongunadu Alumni Trophy Kabaddi Match held at Tiruchirappalli on 2nd September 2024. His outstanding performance showcased teamwork, agility, and sportsmanship.**

**Abishek A, First Year B.Tech. IT, secured Second Prize in the CM Trophy Kabaddi Match held at Namakkal on 15th September 2024. His spirited performance added pride to the institution.**

**Abishek A, First Year B.Tech. IT, won Second Prize in the Anna University Kabaddi Match conducted at Nandha Engineering College, Erode on 25th September 2024, showcasing his athletic excellence.**





**Haripriya E, First Year B.Tech. IT, won the Silver Medal in Shot Put in the Chief Minister's Trophy – District Level Competitions 2024 held at Namakkal in September 2024.**

**Haripriya E, First Year B.Tech. IT, earned the Gold Medal in Discuss Throw during the Chief Minister's Trophy – District Level Competitions 2024 at Namakkal in September 2024.**

**Haripriya E, First Year B.Tech. IT, clinched First Place in Javelin Throw at the 3rd Namakkal District Junior Level Athletics Championship 2024 held on 4th & 5th September 2024.**

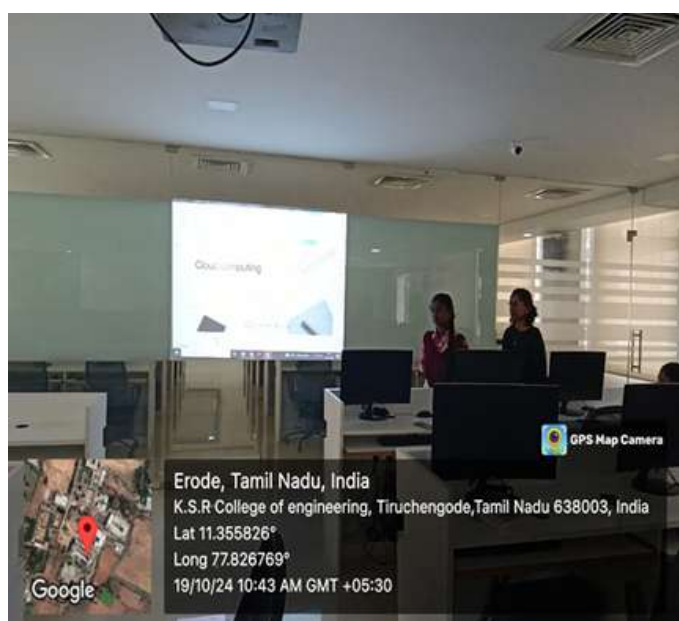
**Haripriya E, First Year B.Tech. IT, also secured First Place in Discuss Throw at the 3rd Namakkal District Junior Level Athletics Championship 2024 conducted on 4th & 5th September 2024.**

# DEPARTMENT HIGHLIGHTS



First-year IT students have showcased commendable academic performance in the first semester examinations. The Director – Academics and the Head of the Department appreciated the students for their dedication and hard work.

The Head of the Department conducted an interactive session with IT students to foster open communication and mutual growth. Students shared their ideas, feedback, and expectations in a friendly and engaging environment. The session aimed to strengthen academic and personal development. It was well-received and encouraged a positive learning atmosphere.



The Department of Information Technology organized a one-week workshop on “Gen AI” in collaboration with Global Knowledge Technologies. The session commenced on 17.12.2024, engaging faculty members in cutting-edge AI concepts and tools. Faculty was actively involved in hands-on project development throughout the week. The workshop enriched their understanding of Generative AI and its real-time applications.

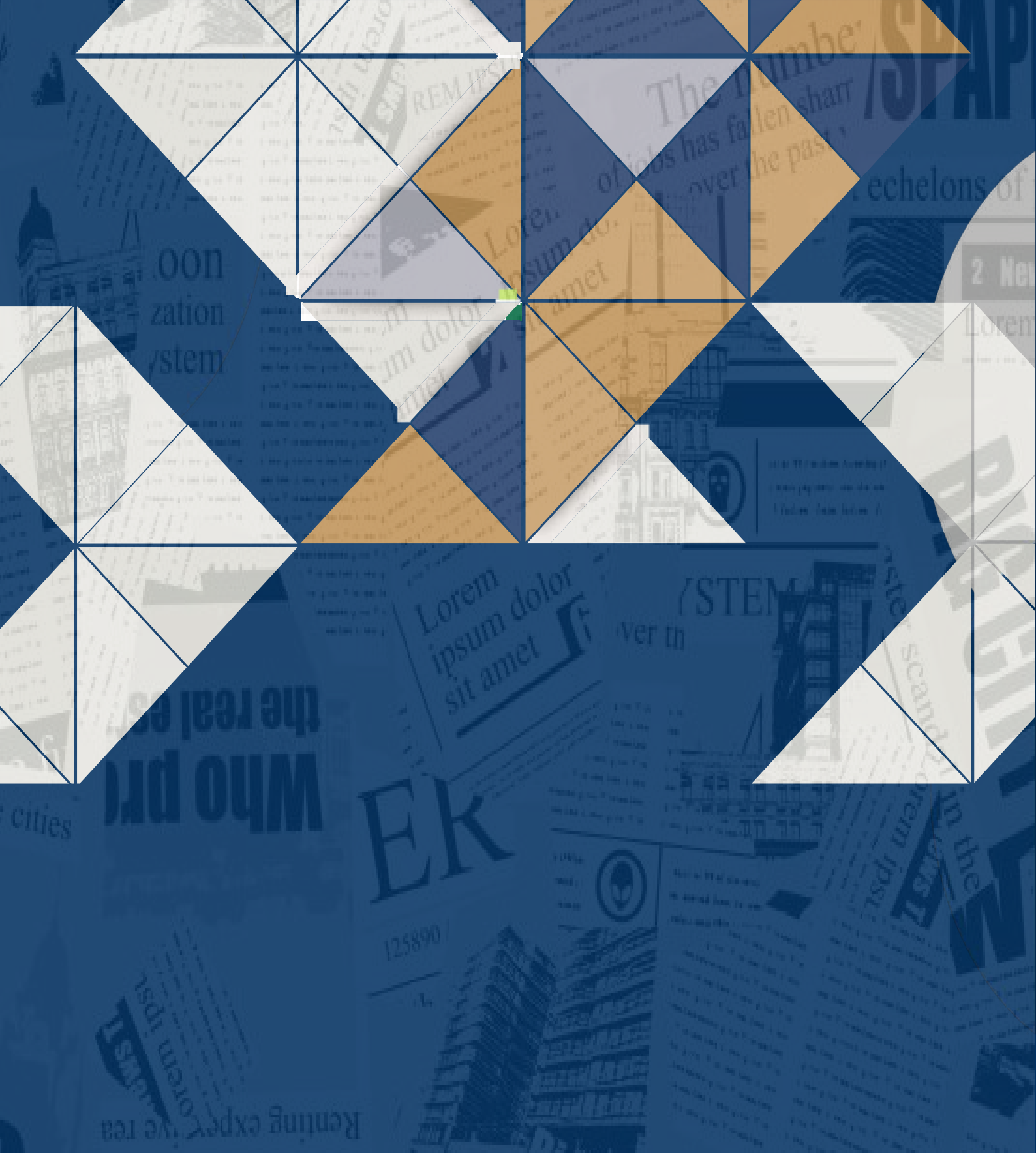


**The Department of Information Technology organized a Paper Presentation event to encourage research and innovative thinking among students. Participants showcased their technical knowledge and communication skills on various emerging topics. The event provided a platform for intellectual exchange and peer learning. Outstanding papers were appreciated and awarded by the review panel.**



**The Department of Information Technology conducts daily Mini Talk sessions to enhance students' communication skills and confidence. These brief, structured interactions encourage students to articulate ideas effectively. The initiative fosters public speaking, critical thinking, and active listening. It has received positive feedback for boosting student engagement and expression.**





**KSR** College of  
Engineering

KSR KALVI NAGAR, TIRUCHENGODE.

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