



KSIT
K. S. INSTITUTE OF TECHNOLOGY

KAMMAVARI SANGHAM (R) - 1952

K. S. INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NBA & NAAC)

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24

Web : www.ksit.edu.in

Report on

“International Conference on Recent Innovations in Engineering Science & Technology- ICRIET-2025”

Date : 9th & 10th, May-2025

Venue: Silver Jubilee Auditorium, K. S. Institute of Technology

#14, Raghuvanahalli, Kanakapura Main Road, Bengalure-560109

Time: 9:30 am to 4:30 pm

Duration: 7 Hours

Sponsoring Bodies / Associating Organization: In Association with

Indian Society for Technical Education

Institution's Innovation Council



The *International Conference on Recent Innovations in Engineering Science & Technology (ICRIET-2025)* was successfully organized on the 9th and 10th of May 2025 by **K. S. Institute of Technology (KSIT), Bengaluru**, in association with **K. S. Research and Innovation Foundation (KSRIFF)**. The conference served as a vibrant platform for academicians, researchers, industry professionals, and scholars to present and discuss the latest innovations and developments across various domains of engineering and applied sciences.

Bengaluru, known as the "Silicon Valley of India," provided a fitting backdrop for the conference with its rich culture of innovation and technological advancement. KSIT, a premier technical institution under the Kammavari Sangham Group of Institutions, hosted the event as a testament to its ongoing commitment to research excellence, interdisciplinary collaboration, and global academic engagement.

Importance and Highlights of the Conference

ICRIET-2025 stood out as a major international academic event with **over 387 papers received** from across the globe under four major thematic tracks: **Next-Generation Computing** (Computer Science and Engineering), **Innovation in VLSI, Embedded Systems and Communication** (Electronics and Communication Engineering), **Breakthroughs & Progress** (Mechanical Engineering), **Pioneering Innovations** (Applied Sciences).

Each submitted paper underwent a rigorous double blind peer-review process, evaluated for correctness, originality, novelty, and technical depth. Out of the total submissions, **225 papers** were accepted for presentation, indicating a robust selection process focused on maintaining high academic standards. The participation of **seven international delegates** further emphasized the global appeal and research relevance of the conference.

Additionally, **59 high-quality full papers**, selected based on reviewer feedback, readability, and subject suitability, are set to be published as part of the **book chapter series titled “Engineering Science and Technology: Innovations for the Future”** by the renowned publisher **Taylor & Francis**. Furthermore, **138 papers** have been accepted for publication in the **UGC Care-listed journal – International Journal of Creative Research Thoughts (IJCRT)**.

Inaugural Session & Keynote Addresses

The conference commenced with a grand inaugural session. **Dr. Dilip Kumar K**, Principal & Director of KSIT, delivered the **Welcome Address**, followed by a comprehensive overview of the conference by **Dr. Anilkumar A**, Organising Secretary, ICRIET-2025. **Mr. Morten Kjoelhede Holst Rotboell**, CEO of SAFT India Pvt. Ltd., graced the occasion as the **Chief Guest** and set the tone for the event with his insightful remarks.

The **Keynote Address on Day 1 (9th May 2025)** was delivered by **Mr. Alexander Hogeveen Rutter**, Manager – Angel Investing, who shared an engaging session on the **Importance of Energy Harvesting and Climate Change**, providing critical insights into sustainable technology solutions. On **Day 2 (10th May 2025)**, the conference was enriched by another keynote session delivered by **Dr. Dhanesh G Mohan**, Program Leader at the University of Sunderland, who addressed the **Impact of AI & ML in Achieving Net-Zero Manufacturing**, highlighting the transformative role of digital technologies in sustainable industry practices.

The event was further honoured by the presence of dignitaries from the **Kammavari Sangham Management – Sri R Rajagopal Naidu (President)**, **Sri R Leelashankar Rao (Hon. Secretary)**, **Sri T Neerajakshulu Naidu (Treasurer)**, along with **Dr. K V A Balaji (CEO, KSGI)** and **Dr. D R Swamy (Executive Director, KSRIF)**, who offered their continued support and encouragement to the academic fraternity.

Technical Sessions and Paper Presentations

Over the span of two days, a total of **24 technical sessions** were held, where authors presented their research contributions across the four thematic tracks. Subject matter experts from both academia and industry served as **Session Chairs**, evaluating the presentations and facilitating discussions. Best paper awards were presented in each session, recognizing exceptional contributions in terms of innovation and application.

Each session was meticulously organized and showcased a diverse range of topics including Artificial Intelligence, IoT, Embedded Systems, Additive Manufacturing, Sustainable Energy Technologies, Quantum Computing, and more, reflecting the interdisciplinary nature of the conference.



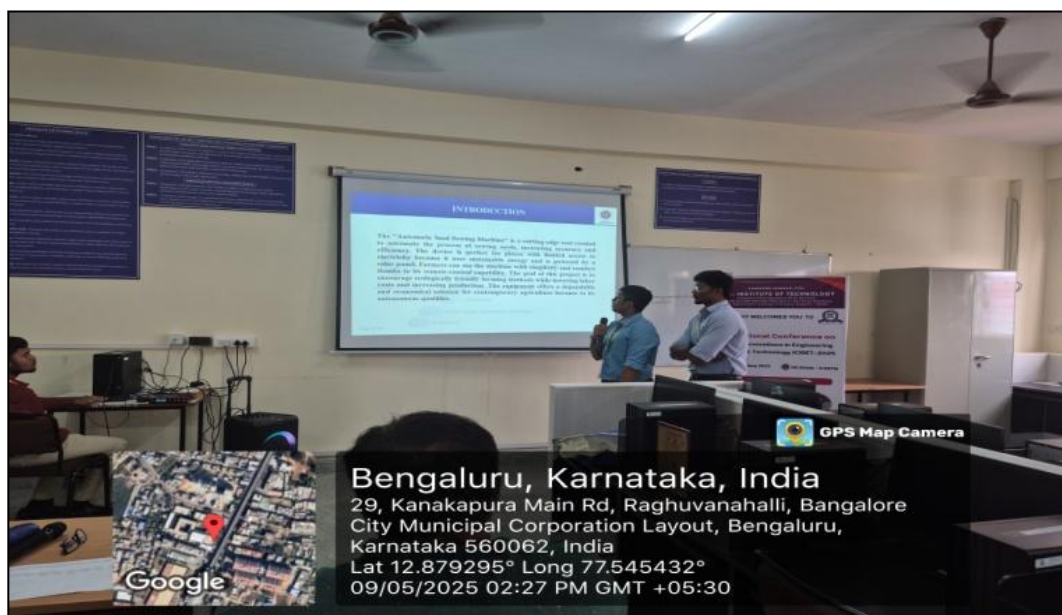
Date and Day: 9th May 2025

Track Name	Mechanical Engineering Track (Session1)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Rammohan Y S Professor, Department of Mechanical Engineering (B.M.S. College of Engineering) & Dr. Reddappa H. N. Associate Prof., Department of Mechanical Engineering, Bangalore Institute of Technology, Bangalore Internal Session Chair: Dr. Nirmala L Associate Professor, Dept. of ME, KSIT
Number of Papers presented in that session	07
Details of Best paper awarded in that session	Paper ID: 152 Roopa D R Title: 3D-Printed Medical Aids for Hemorrhage Control in Battlefield Conditions



Date and Day: 9th May 2025

Track Name	Mechanical Engineering Track (Session2)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Suresh R (MS Ramaiah University of Applied Sciences, Department of Mechanical and Manufacturing Engineering) Internal Session Chair: Dr. Saleem Khan, Assistant Prof. Dept. of ME, KSIT
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID: 73 Vaishak Kamath B Title: Intelligent Motion Control of Servo Motors Using Arduino for Robotic Systems



Date and Day: 09th May 2025

Track Name	APPLIED SCIENCE (PIONEERING INNOVATIONS)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. VENKATESWARLU BOLINENI DEPARTMENT OF MATHEMATICS, GEETHAM UNIVERSITY ,BENGALURU Internal Session Chair: Mr. NAVEEN V Assistant Prof. Dept. of Maths, KSIT
Number of Papers presented in that session	07
Details of Best paper awarded in that session	Author Name: Dharmila Chowdary A, Jalaja P, M Krishna, Shivakumar H M Title: Optimization of Electric Vehicle Battery Thermal Management System Using Computational Fluid Dynamics and Thermal Analysis



Date and Day: 09th May 2025

Track Name	APPLIED SCIENCE (PIONEERING INNOVATIONS)
Name and Affiliation of internal and External session Chair	<p>External Session Chair: Dr. Jayanna B K, Professor, BNMIT, Bangalore</p> <p>Internal Session Chair: Mr. Sunil Kumar N, Assistant Professor, KSIT</p>
Number of Papers presented in that session	06
Details of Best paper awarded in that session	<p>Paper ID & Author Name: 312 Shylaja K.R, Kalyan Raj, Shwetha K.C, Radhika N.P, Simar Mohanty, Anuradha M.V, Shobha G</p> <p>Title: Using copper-based nanomaterial's to improve plant development by means of microbial siderophores generation in the plant rhizosphere and consequent effect on iron absorption</p>



Date and Day: 09th May 2025

Track Name	Innovation in VLSI, Embedded Systems and Communication(ECE-Track) (Session1)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Abhay Deshpande Associate Professor, Dept of ECE , R.V. College of Engineering Internal Session Chair: Dr. Bharathi Gururaj,Associate Professor, Dept of ECE , KSIT
Number of Papers presented in that session	06
Details of Best paper awarded in that session	Paper ID & Author Name: 313 Rajath Nag Nagaraj Title: A Review of AI Prompt Management Tools and a Proposed Git-Based Solution



Date and Day: 09th May 2025

Track Name	Innovation in VLSI, Embedded Systems and Communication(ECE-Track) (Session2)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. R. Jayagowri Professor, Department of ECE, BMS college of Engineering. Internal Session Chair: Dr. Electa Alice Jayarani, Associate Professor, Dept of ECE KSIT
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID & Author Name: 381 Harshini V Title: Design and Development of a Log-Periodic Dipole Antenna for Space Weather Monitoring



Date and Day: 09th May 2025

Track Name	Innovation in VLSI, Embedded Systems and Communication(ECE-Track) (Session3)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Karthik P , Professor Dept. of ISE, Cambridge Institute of Technology Internal Session Chair: Dr. Dinesh Kumar D S, Associate Professor, Dept of ECE , KSIT
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID & Author Name: 180 Sanjay N Title: LAND SLIDE DETECTION AND TRAFFIC AUTOMATION



Date and Day: 09th May 2025

Track Name	Innovation in VLSI, Embedded Systems and Communication(ECE-Track) (Session4)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Manu D K , Associate Professor,Dept of ECE ,KSSEM Internal Session Chair: Dr. Devika B, Associate Professor, Dept. of ECE ,KSIT
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID & Author Name: 212 Sripriya H G Title: Design and Implementation of heliotropic solar panel system for enhanced energy harvesting



Date and Day: 09th May 2025

Track Name	Next generation Computing(CSE track) ROOM NO:108 Session:1
Name and Affiliation of internal and External session Chair	External Session Chair: Dr.Sonia Maria D'souza, Associate Professor New Horizon College of Engineering Bangalore Internal Session Chair: Dr. Vijayalaxmi Mekali Professor KSIT,Bangalore
Number of Papers presented in that session	07
Details of Best paper awarded in that session	Paper ID:303(Sudhanva S) Title: IoT-Integrated Smart Mirror for Continuous Health and Wellness Monitoring.



Date and Day: 09th May 2025

Track Name	Next generation Computing(CSE track) (Session2) ROOM NO:303A
Name and Affiliation of internal and External session Chair	External Session Chair: Dr.kavitha Patil Associate Professor Global Academy of Technology, Bangalore Internal Session Chair: Dr. soubhagyalakshmi Associate professor KSIT,Bangalore
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID:146(Namratha N B) Title: Deep Learning Driven Public Speaking Feedback: Comprehensive Analysis of Speech and Body Language.



Date and Day: 09th May 2025

Track Name	Next generation Computing(CSE track) (Session3)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr Shilpa MangShetty PDA College of Engineering Kalburagi Internal Session Chair: Prof Sathya Sheela D K S Institute of Technology
Number of Papers presented in that session	06
Details of Best paper awarded in that session	Paper ID: 341 Dr. Surekha Byakod, Ankitha Devlokam, Challa Deepika, Vignesh U, Yeddulapalli Sahithi Title: Smart IOT-Enabled vending Machine for Medical and sanitary supplies.



Date and Day: 09th May 2025

Track Name	Next generation Computing(CSE track) (Session4)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr Jalaja G,Prof and Head , Dept of AIML ,BGSCET Internal Session Chair: Dr Sahana Salagare,Asst Prof.Dept of AIML ,KSIT
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID: 230 Nilanjana Title: Artificially intelligent Adaptive Voice Assistant for Next Generation Desktop Automation.



Date and Day: 09th May 2025

Track Name	Next generation Computing(CSE track) (Session5)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr Jalaja G,Prof and Head , Dept of AIML ,BGSCET Internal Session Chair: Renuka Patil,Assc Prof,Dept of AIML,KSIT
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID: 51 D Likitha Raju Title: MultiTrans: An Indian Language Translator.



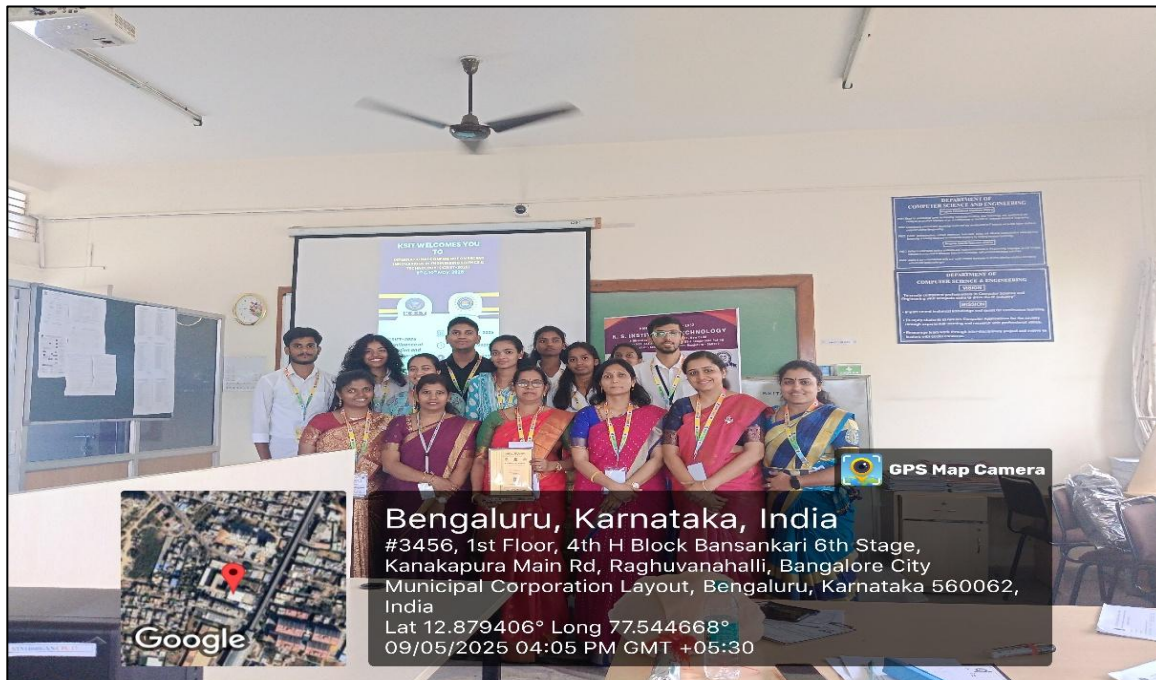
Date and Day: 09th May 2025

Track Name	Next generation Computing(CSE track) (Session6)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr Mahantesh Matapathi, Prof. AIEMS. Internal Session Chair: Mr.Vijay Kashyap ,Asst Prof.Dept of AIML ,KSIT
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID: 128 Nirmal Kumar Roy Title: Face Recognition based Smart Attendance System



Date and Day: 09th May 2025

Track Name	Next generation Computing(CSE track) (Session7)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr.Manjula Nebagiri,Associate professor(Dept of CSE, Shridevi Institute of Engineering and Technology,Tumkur) Internal Session Chair: Dr.Sowbhagya M P,Associate Professor(Dept of CSE,K.S.Institute of Technology)
Number of Papers presented in that session	09
Details of Best paper awarded in that session	Author Name: Isha Maji Title: Deepfake Image Detection Using Convolutional Nural Network:A Web-Based Approach



Date and Day: 09th May 2025

Track Name	Next generation Computing(CSE track) (Session8)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr Niharika Kumar, Associate Professor, BNMIT Internal Session Chair: Dr Surekha Nigudi, Associate Professor
Number of Papers presented in that session	07
Details of Best paper awarded in that session	Author Name: 396 Varsha P Title: Convolutional Neural Network- Based Grape Leaf Disease Detection With Regional Language Integration



Date and Day: 10th May 2025

Track Name	Mechanical Engineering Track (Session1)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Mishma Silvia Stanislaus, Scientist (Indian Institute of Science) Internal Session Chair: Dr. Harish U, Assistant Prof. Dept. of ME, KSIT
Number of Papers presented in that session	09
Details of Best paper awarded in that session	Paper ID: 413 Shobha H S Title: CFD Analysis on Battery management system using Nano-Fluids- A Review



Date and Day: 10th May 2025

Track Name	Next generation Computing(CSE track) ROOM NO:303A (Session9)
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Anil Kumar. B Assistant Professor RVITM Bengaluru Internal Session Chair: Dr. Soubhagyalakshmi Associate professor KSIT,Bangalore
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID: 82(Samarth Hedge) Title: AI-Driven Automated Expense Tracking: A Technological Advancement in Financial Management.



Date and Day: 10th May 2025

Track Name	Next generation Computing(CSE track) ROOM NO:108 Session:10
Name and Affiliation of internal and External session Chair	External Session Chair: Dr.Shweta S Kaddi Assistant Professor JSS academy of technical education, Bangalore Internal Session Chair: Mrs.Sheba Jebakani Assistant Professor KSIT,Bangalore
Number of Papers presented in that session	09
Details of Best paper awarded in that session	Paper ID:140 (Manu Elappila) Title: Performance Analysis of Classification Algorithms to Predict Failures in IIoT Devices.



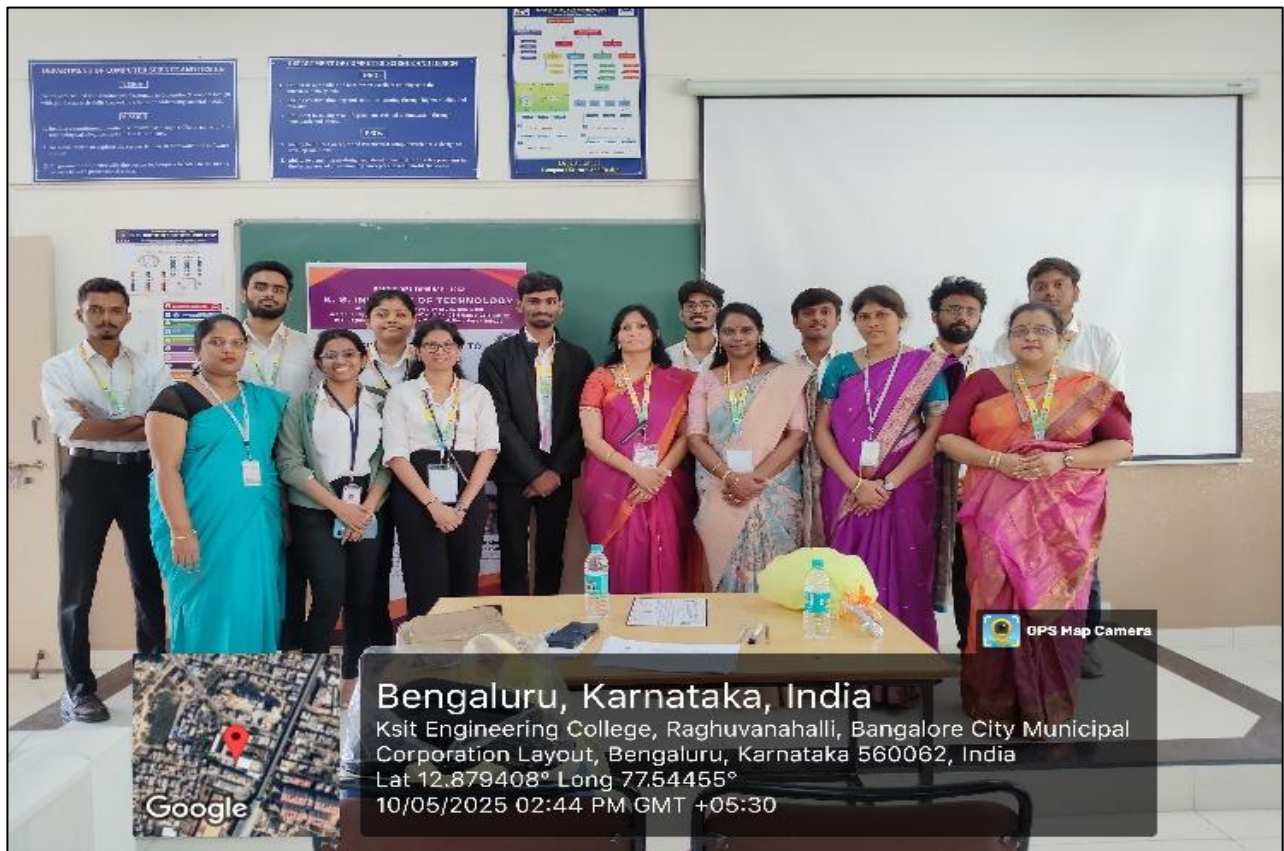
Date and Day: 10th May 2025

Track Name	Next generation Computing(CSE track) Session:11
Name and Affiliation of internal and External session Chair	External Session Chair: Dr Shubha Rao, Associate Professor, BMSCE Bangalore Internal Session Chair: Dr Deepa S R, Head of Department, KSIT, Bangalore
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID: 323 Divya T Title: Rebottle Rewards – An IoT integrated system for Incentivized plastic waste management.



Date and Day: 10th May 2025

Track Name	Next generation Computing(CSE track) Session:12
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Sangeetha V Associate Professor Dept. of CSE, Ramaiah Institute of Technology Internal Session Chair: Dr. Sunita Chalageri, Associate Professor, Dept. of CSE KSIT, Bangalore
Number of Papers presented in that session	07
Details of Best paper awarded in that session	Paper ID: 293 Gopala Krishna V Title: Synergy: Decentralized Certificate Verification and Validation



Date and Day: 10th May 2025

Track Name	Next generation Computing(CSE track) Session:13
Name and Affiliation of internal and External session Chair	External Session Chair: Dr Malini M Patil, Prof and Head CSE Dept, RVITM Internal Session Chair: Dr Suresh MB. Prof and Head AIML Dept, KSIT
Number of Papers presented in that session	07
Details of Best paper awarded in that session	Paper ID: 284 Reddy Tejaswini A Title: Synergy: ConnectEd: Enhancing Communication Platform



Date and Day: 10th May 2025

Track Name	Next generation Computing(CSE track) Session:14
Name and Affiliation of internal and External session Chair	External Session Chair: Dr Nagamani Purohit, Asse Professor,Dept of ISE, JSSATE Internal Session Chair: Mrs Usha Gunti, Asse Professor, Dept of KSIT
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID: 30 Pradnya Title: Animatrix: Personalized Multimodal Content Generation for Advertising



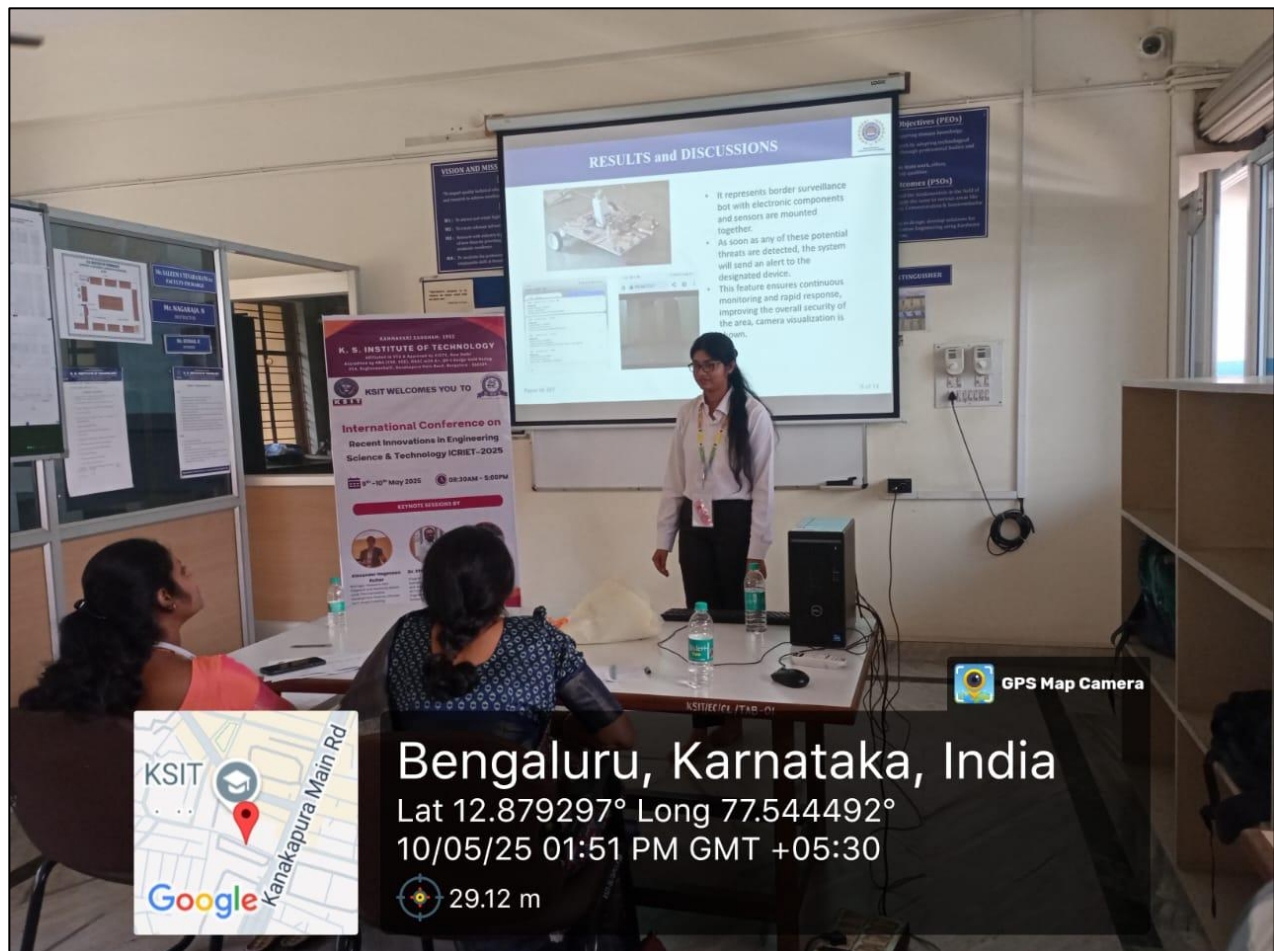
Date and Day: 10th May 2025

Track Name	Innovation in VLSI, Embedded Systems and Communication(ECE-Track) Session:5
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Siddalingesh Bandi, Associate Professor Dept. of ECE , Global Academy of Technology Internal Session Chair: Mrs. Bhargavi Ananth, Assistant Professor, Dept. of ECE ,KSIT
Number of Papers presented in that session	08
Details of Best paper awarded in that session	Paper ID: 184 Mithun C Title: AMPHIBIOUS HOVERCRAFT



Date and Day: 10th May 2025

Track Name	Innovation in VLSI, Embedded Systems and Communication(ECE-Track) Session:6
Name and Affiliation of internal and External session Chair	External Session Chair: Dr. Roopa Assistant Professor Department of E&C, S.I.T Tumakuru. Internal Session Chair: Mrs. Bhanumathi A, Assistant Professor, Dept. of ECE ,KSIT
Number of Papers presented in that session	07
Details of Best paper awarded in that session	Paper ID: 260 Rakshith S Title: GESTURE-CONTROLLED ROBOTIC ARM WITH MOBILE ROVER INTEGRATION



Conclusions:

ICRIET-2025 proved to be a significant milestone in KSIT's journey of academic excellence and global collaboration. It provided a fertile ground for knowledge exchange, networking, and future partnerships. The enthusiastic participation of delegates, the high quality of submissions, and the commitment of the organizing team collectively contributed to the grand success of the conference.

The organizers extend their heartfelt gratitude to all keynote speakers, session chairs, reviewers, presenters, delegates, and sponsors for their invaluable contributions. ICRIET-2025 leaves behind a legacy of knowledge and innovation, inspiring future editions with even greater scope and impact.

Participants Details:

Number of Participants: 198

Participants (Internal / External): External & Internal

Faculty Co-Ordinators: **Dr. Anilkumar A**, Assistant Professor, MED

Dr. Nagaprasad K S, Associate Professor, MED

Dr. Anilkumar A
Assistant Professor, MED

Dr. Nagaprasad K S
Associate Professor, MED

Dr. Dilip Kumar K
Principal / Director