



K. S. INSTITUTE OF TECHNOLOGY

An Autonomous Institution under VTU

Approved by AICTE, New Delhi, Recognized by Govt. of Karnataka
Accredited by NBA (CSE & ECE) and NAAC with A+ Grade
#14, Raghuvanahalli, Kanakapura Road, Bengaluru – 560109



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A Report on

“National Conference on Recent Innovations in Engineering (NCRIE–2025)”

Event Type	National Conference
Event Name	National Conference on Recent Innovations in Engineering (NCRIE–2025)
Date/Duration	04/12/2025 / 4 hours
No. of Teams	36
Inauguration Venue	Silver Jubilee Auditorium, KSIT
Session Venue	OB 108, OB 109, OB 301 (Lab Venue)
Online link/Offline	Offline

Introduction:

The National Conference on Recent Innovations in Engineering (NCRIE–2025) was held on Thursday, 4th December 2025, at the KSIT, organized by the Department of Computer Science & Engineering, K. S. Institute of Technology, Bengaluru. The event served as a premier platform bringing together academicians, researchers, industry professionals, and students to exchange knowledge and showcase cutting-edge innovations in the fields of Artificial Intelligence, Machine Learning, IoT, Cybersecurity, Cloud Computing, Data Science, and emerging technologies. The conference was graced by the presence of esteemed dignitaries including Sri. R. Rajagopal Naidu, President of Kammavari Sangham, who presided over the event, and Ms. Ranjani Rajanikanth, Vice President – Engineering, Schneider Electric International Hub, Bengaluru, who served as the Chief Guest and delivered an inspiring address on technological advancements and sustainable engineering practices.

The leadership of Dr. Dilip Kumar K, Principal & Director, along with the active involvement of the Academic Advisory Board, Technical Committee, and Organizing Committee, ensured the successful execution of the conference. NCRIE–2025 provided a vibrant and collaborative environment that encouraged multidisciplinary research, innovation, and academic excellence aligned with KSIT’s vision of fostering quality education and societal development.

Objectives of the Session

The main objectives of the session were:

- To provide a platform for presenting recent innovations in engineering and technology.
- To encourage interdisciplinary collaboration among academia, industry, and research bodies.
- To promote research culture among students and faculty.
- To disseminate knowledge on AI, IoT, Cybersecurity, ML, Data Science, and emerging fields.

- To motivate young researchers to publish and contribute to scholarly literature.
- To align engineering innovations with societal, ethical, and environmental responsibilities.

Summarized Learning Outcomes

Participants gained exposure to:

- State-of-the-art AI/ML applications and real-world engineering problems.
- Practical cybersecurity, deep learning, and IoT applications.
- Research methodologies including model design, analysis, experimentation, and data interpretation.
- Presentation, documentation, and technical speaking skills.
- Cross-domain integration and emerging trends in sustainable technology.

Invitation

KAMMAVARI SANGHAM (R) - 1952
K. S. INSTITUTE OF TECHNOLOGY
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 #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560 109
 www.kit.edu.in

Cordially invites you all to the
NATIONAL CONFERENCE
 ON
RECENT INNOVATIONS IN ENGINEERING
NCRIE-2025

Thursday, 4th December 2025

Chief Guest
Ms. Ranjani Rajanikanth
 Vice President Engineering
 International Hub Schneider Electric, Bengaluru

Presided By
Sri. R. Rajagopal Naidu
 President, Kammavari Sangham

Will Grace the Occasion
Sri. R. Leelashankar Rao
 Hon. Secretary, Kammavari Sangham

Sri. T. Neerajakshulu Naidu
 Treasurer, Kammavari Sangham

Dr. KUSHAL KUMAR B. N
 Chief Convener, KSIT

Dr. DILIP KUMAR. K
 Principal/Director, KSIT

Venue : KSIT Auditorium
Time : 9.30 AM

Management Committee

- Sri. R. Rajagopal Naidu
President
- Dr. M. Rukmangada Naidu
Vice President
- Sri. B. Lokanadha Naidu
Vice President
- Sri. R. Leelashankar Rao
Hon. Secretary
- Sri. V. Rajendra Naidu
Joint-Secretary
- Sri. S. Venugopal Naidu
Joint-Secretary
- Sri. T. Neerajakshulu Naidu
Treasurer
- Sri. M. Yogamurthy
Internal Auditor
- Sri. M. Sudhakar
Chairman, Legal Cell
- Sri. N. M. Krishnamurthy
Chairman, Finance Committee
- Sri. A. V. Nagaraj
Chairman, Building Committee
- Sri. N. Krishnama Naidu
Chairman, Hostel Committee
- Sri. D. Jagadish Kumar
Chairman, Transport Committee
- Sri. T. N. Manjunatha
Chairman, Environment Committee
- Sri. G. Ramana Babu
Director
- Sri. G. V. Ramesh
Director
- Sri. V. Ramesh Kumar
Director
- Sri. J. M. Chandra Shekar (Babu)
Director
- Sri. P. Prabhakar Naidu
Director

Advisory Committee

- Sri K. Krishna
Chairman
- Sri Y. Ramakrishna
Member
- Sri K. Subramanyam Naidu
Member
- Sri T. Ramachandra Naidu
Member
- Sri Prathipati Anjaneyalu
Member

K S GROUP OF INSTITUTIONS

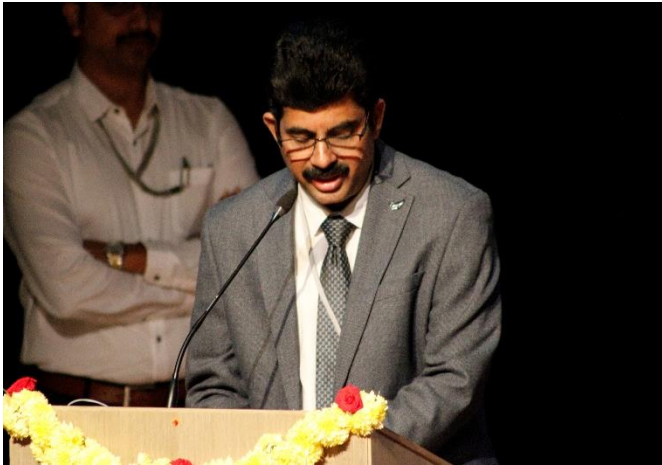
- K. S. POLYTECHNIC**
- K. S. INSTITUTE OF TECHNOLOGY**
- K. S. SCHOOL OF ENGG. & MGMT.**
- K. S. PRE - UNIVERSITY COLLEGE**
- K. S. DEGREE COLLEGE**

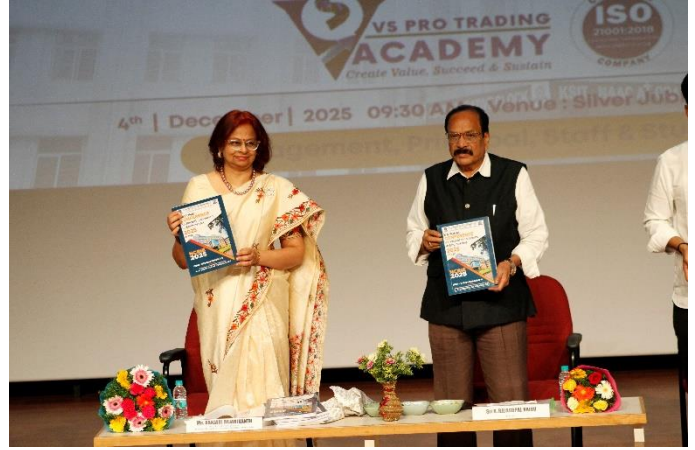
Highlights of the Conference

Inaugural Ceremony

- Inspirational welcome by the Principal, Dr. Dilip Kumar K.
- Keynote reflections by the Chief Guest emphasizing the future of technological innovation.
- Address by the President of Kammavari Sangham on the importance of engineering and Advancements

Glimpse of the Inaugural Event





CSE Brochure

Chief Patrons

- Sri R. Rajagopal Naidu**
President, Kammavari Sangham
- Sri R. Leelashankar Rao**
Hon. Secretary, Kammavari Sangham
- Sri T. Neerajakshulu Naidu**
Treasurer, Kammavari Sangham

Academic Advisory Board

- Dr. H.P. Khincha**
Chairman & Former Vice Chancellor VTU and Professor IISc
- Dr. K.N. Balasubramanyamurthy**
Member
- Prof. Y. N. Srikant**
Member
- Dr. Shyam Vasudevarao**
Member

Conference Chair

- Dr. Dilip Kumar K**
Principal & Director

Chief Convener

- Dr. Rekha B. Venkatapur**
Professor & HOD, CSE

Convener

- Dr. Sunita Chalageri**, Associate Professor, CSE
- Mr. Raghavendrachar S**, Associate Professor, CSE

Organizing Committee

- Dr. Vijayalaxmi Mekali**, Professor
- Dr. Sowbhagya M P**, Associate Professor
- Mr. Roopesh Kumar B.N.**, Associate Professor
- Mr. Kumar. K.**, Associate Professor
- Dr. Krishna Gudi**, Associate Professor
- Mr. T Somasekhar**, Associate Professor
- Mr. Prashanth H.S.**, Assistant Professor
- Mrs. Beena.K.**, Assistant Professor
- Mr. Laxmikanta K.**, Assistant Professor
- Ms. Namyapriya D.**, Assistant Professor
- Mrs. Swapna Subhash Banasode**, Assistant Professor

- Mr. Abhilash L Bhat**, Assistant Professor
- Mrs. Shruthi T S**, Assistant Professor
- Mrs. Ramya R**, Assistant Professor
- Mrs. Suma Rajesh Ananthakrishna**, Assistant Professor
- Mrs. Roopashree S V**, Assistant Professor
- Mrs. Sheba Jebakani**, Assistant Professor
- Mrs. Asha Sattigeri**, Assistant Professor
- Mrs. Maddelebhargavi**, Assistant Professor
- Mrs. Kodur Srividya**, Assistant Professor
- Mr. Vishva Kiran R C**, Assistant Professor
- Mrs. V Manjula**, Assistant Professor
- Mrs. Amritha R**, Assistant Professor
- Mrs. R. D. Vidyarani**, Assistant Professor
- Mr. Gowtham Raj M**, Assistant Professor
- Mrs. Shilpa C**, Assistant Professor

Advisory and Technical Committee

- Dr. Anitha N**
Professor, CSE, BNMIT
- Dr. Prabhudev Jagadeesh**
Professor & Head, CSE, JSSATE
- Dr. Shubha Rao V**
Professor, ISE, BMSCE
- Dr. Hemavathy R**
Professor, CSE, RVCE
- Dr. Padmashree T**
Associate Professor, ISE, RVCE
- Dr. Priyanga P**
Associate Professor, CSE (AI&ML), RNSIT
- Dr. Pavithra G S**
Associate Professor, CSE (AI&ML), RNSIT
- Dr. Sangeetha V**
Associate Professor, CSE, MSRIT
- Dr. Vaneeta M**
Associate Professor, AI & DS, MSRIT
- Dr. Bore Gowda**
Associate Professor, MIT

For more Information Contact:

- | | | |
|------------|----------------------|-------------|
| 1. Track 1 | Dr. Sunita Chalageri | 99160 99905 |
|------------|----------------------|-------------|

K. S. INSTITUTE OF TECHNOLOGY
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No.14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

NATIONAL CONFERENCE

Recent Innovations in Engineering

2025

4th DEC

NCRIE 2025

Organized by
Department of Computer Science & Engineering
K. S. INSTITUTE OF TECHNOLOGY

<p>About Kammavari Sangham :</p> <p>The Kammavari Sangham a multi-activity non-profit oriented voluntary service organization was established in the year 1952 with the sole objective of providing charitable service to community and society. The Sangham has diversified its activities since its establishment over five decades ago with a firm belief that quality and meaningful education only can lay the strong foundation for bringing about economic and social changes to the lives of thousands. The Sangham went about establishing educational institutions starting with K.S. Polytechnic in 1992. Enthused with this success of its foray into technical education, the Sangham moved forward by starting the K.S. Institute of Technology (KSIT) in the year 1999, K.S. School of Engineering & Management (KSSEM) in the year 2010, K.S. School of Architecture (KSSA) in the year 2015, K. S. PU college in 2022 & K. S. Degree College (KSDC) in the year 2025. In the following years these institutions have carved for themselves an enviable niche through academic excellence achieved in a very short span of time. By providing free hostel accommodation and scholarship to the deserving students in the community, it has furthered its commitment to education.</p>	<p>explore emerging research trends in engineering and technology. With the rapid evolution of digital transformation, artificial intelligence, sustainable manufacturing, and smart communication systems, NCRIE-2025 aims to bridge the gap between academic research and industrial applications. It encourages multidisciplinary collaboration and promotes a research culture that contributes to national development and global technological progress.</p> <p>Call for Papers :</p> <p>Papers are invited in the following thrust areas:</p> <ul style="list-style-type: none"> Track 1: Computer Science and Engineering Artificial Intelligence, Machine Learning, and Deep Learning Internet of Things (IoT) and Edge/Fog Computing Cybersecurity, Blockchain, and Cloud Computing Data Science, Big Data Analytics, and Predictive Modelling Software Engineering and Agile Methodologies Computer Networks and Network Security Human-Computer Interaction and Smart Applications Natural Language Processing and AI Ethics <p>Note : Any other topics related to conference theme are also invited.</p>	<p>Registration Form - NCRIE 2025</p> <p>Name : _____</p> <p>Designation : _____</p> <p>Gender : <input type="checkbox"/> Male <input type="checkbox"/> Female</p> <p>Qualification : _____</p> <p>Organization : _____</p> <p>Address for Communication : _____</p>
<p>About the Institution :</p> <p>K. S. Institute of Technology, an Autonomous Institution was established in the year 1999 by the Kammavari Sangham with a commitment to provide value based technical education. KSIT is strategically located at No.14 Raghuvanahalli, Kanakapura Main Road, Bengaluru. The Institute has modern infrastructure with state-of-the-art equipment and laboratory facilities, well qualified faculty and an impressive placement record. The objective of KSIT is to impart quality education to students and enable them to develop the abilities of problem solving, creative thinking and adaptability in their chosen field. KSIT is NAAC accredited with A+ Grade.</p>	<p>Important Dates :</p> <p>22nd Nov 2025 : Last date for paper submission. 26th Nov 2025 : Paper acceptance notification 29th Nov 2025 : Last date for registration and camera ready paper submission.</p> <p>Eligibility :</p> <p>Students, Faculty, Research Scholars from Engineering Colleges, Research Scholars from Industries and R&D Organizations Centers may also participate.</p>	<p>Pincode : _____</p> <p>Mobile No : _____</p> <p>Email id : _____</p> <p>Payment Details</p> <p>DD / Online Payment Transaction Number : _____</p>
<p>About the Department :</p> <p>The Department of Computer Science and Engineering is established in the year 1999. The current intake of UG program is 180, PG with 18 and department has a PhD Program. The main focus of the department is to produce graduate, post graduates and PhD's with the expertise in Computer Science and Engineer domain. The Department of Computer Science and Engineering is accredited by NBA (2024-27). The Department offers various programs namely Bachelor of Engineering (B.E), Master of Technology (M.Tech) in CSE and PhD. The department has qualified, experienced & committed teaching faculty members with various specializations. Faculties with Ph.D. degree and those who are pursuing Ph.D. provide qualitative industry level education.</p>	<p>Paper Format :</p> <p>Authors are requested to submit their technical paper as M S word document not exceeding 6 pages in IEEE format to the email id mentioned below.</p> <p>Email to : csencrie2025@ksit.edu.in</p> <p>Track 1 : csencrie2025@ksit.edu.in</p> <p>The accepted papers received with registration fee will be published in the proceedings of the Conference with ISBN</p> <p>Note:- On request hard copy of the proceedings will be provided at additional cost.</p> <p>Participation / Registration Fee : Rs. 500/-</p>	<p>Bank/Branch: _____</p> <p>Amount: _____</p> <p>Date: _____</p> <p>Participant Signature : _____</p> <p>Sponsoring Organization : _____</p> <p>Place: _____</p> <p>Date : _____</p>
<p>About the Conference :</p> <p>The National Conference on Recent Innovations in Engineering, Technology, and Innovation (NCRIE-2025) is a premier academic event jointly organized by the K. S. Institute of Technology Bengaluru. The conference provides a vibrant platform for researchers, academicians, industry professionals, and students to exchange ideas, showcase innovations, and</p>	<p>Mode of Payment:</p> <p>Online Transaction</p> <p>Name of the Bank : Union Bank Of India Branch : Raghuvanahalli, Kanakapura Main Road Account Holder Name : IETE SB Account No. : 149010100074011 IFSC CODE : UBIN0814903</p> <p>SCAN TO PAY</p>  <p>UPI ID : 75712801@UBIN</p>	<p>Signature with Seal</p>

Technical Paper Presentations

- The CSE department hosted three parallel sessions from 10:30 AM to 1:30 PM across multiple venues (Lab Venue: OB 108, OB 109, OB 301)
- A total of 36 research papers were presented across domains such as:
 - Artificial Intelligence
 - Machine Learning
 - IoT & Edge Computing
 - Blockchain
 - Cybersecurity
 - NLP
 - Medical Image Processing
 - Cloud-based Systems
 - Smart Applications

External Resource Person



Dr. Pavithra G S
Associate Professor, CSE-AI&ML, RNSIT, Bengaluru

Dr. Pavithra G. S is an accomplished Associate Professor in the Department of CSE–Artificial Intelligence & Machine Learning at RNS Institute of Technology, Bengaluru, with over 22 years of academic experience. She holds her B.E., M.Tech., and Ph.D. in Computer Science & Engineering from VTU, Belagavi, and currently serves as a BOS Member for PG CSE & Allied Branches, MCA, and BCA at VTU (2025–2028). She has previously served as a BOE Member at VTU and

continues as a BOE member for several autonomous engineering institutions. A recipient of the Young Researcher Award (2021) and Nation Builder Award (2025), she is active in professional communities such as the Institute of Engineers (India), IAENG, and InSc, and is also a dedicated Yoga Volunteer with the Indian Yoga Association. She has received a grant of ₹72,500 from the Karnataka Higher Education Council and serves as an RAC Committee Member for VTU Ph.D. research scholars. Dr. Pavithra has published extensively in Scopus-indexed journals and conferences, is a recognized reviewer for reputed journals, and has one patent to her credit. Her research interests include networking, clustering techniques, routing protocols for wireless sensor networks, machine learning, and data science. Beyond academics, she is an enthusiastic yoga practitioner and marathon participant, reflecting her commitment to holistic well-being and discipline.



Dr. Malini M. Patil

Professor and Dean of the Computer Science Cluster, RVITM, Bengaluru

Dr. Malini M. Patil is a distinguished academician with 28 years of teaching and 13 years of research experience, currently serving as Professor and Dean of the Computer Science Cluster at R V Institute of Technology and Management. She holds her B.E. from Karnataka University, M.Tech. from Shivaji University, and Ph.D. from Bharathiar University, Tamil Nadu. Her expertise spans Data Mining, Machine Learning, and Big Data Analytics, and she has made significant research contributions with over 71 publications in reputed international journals and conferences, accumulating 904 citations, an h-index of 12, and an i10-index of 13. She has successfully guided three VTU Ph.D. scholars and is currently supervising four more, in addition to authoring five book chapters. A committed member of multiple professional societies—including Senior Member IEEE, WIE, LMCSI, LMIEI, LMISTE, and ACM—she actively contributes to academic and professional communities. Dr. Malini has delivered numerous invited webinars and seminars across India and has represented her research internationally in Hong Kong, Dubai, Sri Lanka, and Malaysia, earning multiple accolades such as the Best Paper Presenter Award at the 53rd Annual Convention of the Computer Society of India (CSI) at KIIT, Bhubaneswar, and the Distinguished Women in Science Award (2017) from the Venus International Foundation. Her academic leadership, research excellence, and global engagement make her a highly respected figure in the field of Computer Science.

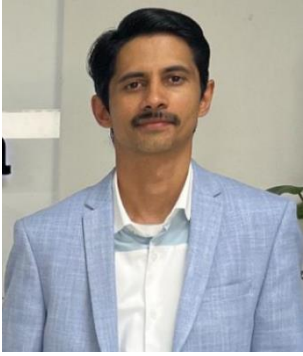


Dr. Jahnavi S

Assistant Professor, AIML, BMSCE, Bengaluru

Dr. Jahnavi S is an accomplished academician and researcher currently serving as an Assistant Professor in the Department of AIML at BMS College of Engineering, Bengaluru. With nearly a decade of teaching and extensive research experience, she has previously contributed significantly to the Department of CSE at Dayananda Sagar Academy of Technology & Management. She holds a Ph.D. from VTU, along with an M.Tech from RNSIT and a B.E. from AMC Engineering College. Dr. Jahnavi has published numerous research papers in Scopus-indexed journals, contributed to Springer book chapters, and has multiple patents, including a recently granted patent (2024) in advanced cryptographic systems. Her research expertise spans image processing, blockchain-based security, visual cryptography, AI-driven systems, and IoT-based secure communication. She has also served as a reviewer for prestigious IEEE conferences and Springer journals, coordinated key academic events, and contributed to NAAC and NBA accreditation processes. Beyond her research and teaching roles, she actively engages in FDPs, workshops, and consultancy projects, showcasing her commitment to continuous learning and academic leadership.

Internal Resource Person



Dr. Krishna Gudi
Associate Professor, CSE, KSIT, Bengaluru

Dr. Krishna Gudi is an Associate Professor in the Department of Computer Science & Engineering at K. S. Institute of Technology, Bengaluru, known for his strong commitment to fostering innovation, entrepreneurship, and experiential learning among students. He has actively mentored multiple student teams for prestigious national and state-level competitions such as the Smart India Hackathon (SIH) and the FKCCI State-Level Business Plan Competition, guiding them through idea development, prototype design, and presentation excellence. His academic expertise spans Software Engineering, IoT, Cloud Computing, Artificial Intelligence, and technology-driven solution development. Dr. Krishna is widely appreciated for his clear teaching style, student-centric approach, and unwavering support in motivating young engineers to embrace creativity, build confidence, and engage in real-world problem solving.



Mr. Kumar K
Associate Professor, CSE, KSIT, Bengaluru

Mr. Kumar K is an Associate Professor and the Deputy Controller of Examinations at K. S. Institute of Technology, Bengaluru, bringing over 17 years of professional experience, including two years as an Automation Engineer. Known for his passion for technology engagement and student empowerment, he actively mentors young innovators to explore advanced tools, emerging technologies, and real-world problem solving. He has served as a mentor and jury member for several prestigious hackathons, including the Smart India Hackathon (SIH) and international events such as the India-Singapore Hackathon, providing expert guidance in concept development and innovation strategy. He has also secured multiple funds to support post-hackathon development activities, reflecting his commitment to nurturing student talent and fostering a strong culture of innovation and applied learning.



Mr. Roopesh Kumar B N
Associate Professor, CSE, KSIT, Bengaluru

Mr. Roopesh Kumar B. N. is an Associate Professor with over 15 years of dedicated teaching experience, known for his strong commitment to academic excellence and student development in the field of computing. His expertise includes Cyber Security, Cloud Computing, and Adversarial Machine Learning, and he has contributed to the research community through several impactful publications. Passionate about emerging technologies, he consistently encourages students to stay current with advancements and adopt an innovative mindset. Beyond his teaching and research responsibilities, he actively mentors and evaluates student talent as a mentor and judge for internal hackathons, promoting creativity, practical problem-solving, and hands-on learning. With his blend of expertise, dedication, and forward-looking vision, he continues to inspire students and colleagues, making a meaningful contribution to both academia and technological growth.

CSE Track Details

Track Details: CSE Track

Session Number: 01

Date & Day : 4th December 2025, Thursday

Time: 10.30AM to 1.30PM Venue: OB 109A/B-CN Lab

Faculty Incharge: Mrs. Shruthi T S Mobile Number: 9742194553		Student Coordinator : Yashaswini K T Mobile Number: 8088943390			
Sl. No.	Timings	Paper ID	Title of the Paper	Author Name	Contact Number
1	10:30 AM to 10:42 AM	NCRIECS01	SonicVision – Translating sight into sound	Ms.Sharanya Kalkunte	9972746505
2	10:42 AM to 10:54 AM	NCRIECS21	Fridge to Meals Personalized Recipe Generation System	Ms.Deepthi B	8431563081
3	10:54 AM to 11:06 AM	NCRIECS24	E-Commerce Product Recommendations	Mr.Nihal	8431781091
4	11:06 AM to 11:17 AM	NCRIECS08	SustainBite – An AI Powered Mobile Application For Food Redistribution	Mr.Akash S R	7411704280
5	11:17 AM to 11:28 AM	NCRIECS28	Implementation of a Hybrid ML-Sentiment Driven Trading Recommendation System with Real-Time Market Data Integration	Mr.Prathik Talur	9148899002
6	11:28 AM to 11:40AM	NCRIECS16	SkillBoost : A Web-Based Full Stack Application for Skill Management and Placement Preparation	Ms. L Deeksha	7483912479
7	11:40 AM to 11:52 AM	NCRIECS29	AI-Assisted Assessment Platforms with Real-Time Monitoring:A Comprehensive Survey	Mr.Chandramadi	8618810386
8	11:52 AM to 12:04 PM	NCRIECS18	A Multi-Modal Hybrid Approach for Recognizing 3D Faces with Occlusions	Mr. Revanth Raj	8147910384
9	12:04 PM to 12:16PM	NCRIECS30	Evolution of Brain-Computer Interfaces: A Full-Spectrum Review of Non-Invasive and Invasive Systems	Ms.Sneha D Bhat	9741492762
10	12:16 PM to 12:28 PM	NCRIECS06	AI-Driven Classification of Respiratory Disorders in	Ms. Apoorva V P	7975668122
11	12:28 PM to 12:40 PM	NCRIECS39	Scheduloop – An Institution-Based ERP System	Mr.Samrudh Rao	9986359969
12	12:40 PM to 12:52 PM	NCRIECS45	IoT-Based Health Monitoring Systems: Architecture, Enabling Technologies, and Future Directions	Mrs.Pallavi/ Vaishnavi/Rishikesh/ Swetha	9148084395/ 6362804747/ 7618707857



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on

RECENT INNOVATIONS IN ENGINEERING

NCRIE-2025

Session 1



External Session Chair
Dr. Pavithra G S
Associate Professor
CSE-AI&ML, RNSIT
Bengaluru



Internal Session Chair
Mr. Kumar K
Associate professor
Dept of CSE
KSIT

Date & Day :		4th December 2025, Thursday		Time: 10.30AM to 1.30PM		Venue: OB 108A/B- ML Lab	
Faculty Incharge: Mrs. Ramya R Mobile Number: 9972863036			Student Coordinator : Priyadharshini E P Mobile Number: 7259905558				
Sl. No.	Timings	Paper ID	Title of the Paper	Author Name	Contact Number		
1	10:30 AM to 10:42 AM	NCRIEC513	AI and Blockchain-Based Smart Rental System	Archana B Y	9731343351		
2	10:42 AM to 10:54 AM	NCRIEC503	Cross-Lingual Text Classification for Toxic Comment Detection	Jyothsana	8660424405		
3	10:54 AM to 11:06 AM	NCRIEC520	Automated Classification of Acute Lymphoblastic Leukemia	Chaithra P	7338637315		
4	11:06 AM to 11:17 AM	NCRIEC509	Regional Carbon Credit Trading with AI Analytics	Bindu M	8710843958		
5	11:17 AM to 11:28 AM	NCRIEC525	Quantum Guard: Adaptive Device-Independent Quantum Key Distribution with Finite-Key Security Analysis and Practical File Encryption on Real Quantum Hardware	Bhoomi M N	8050026826		
6	11:28 AM to 11:40 AM	NCRIEC515	Cloud Based Document Translator By DocuLingo	Arnav Hangal	9916192150		
7	11:40 AM to 11:52 AM	NCRIEC517	Design and Implementation of an Automated Seating Arrangement Model for Examinations	Srinivasagupta R K	7337699154		
8	11:52 AM to 12:04 PM	NCRIEC533	Algorithm Based Study Planner	Vilasita Y R	7829923456		
9	12:04 PM to 12:16 PM	NCRIEC540	AI-Powered Resume Screening and Ranking System Using Edge-Cloud Hybrid Architecture	Kushal B N	8453738169		
10	12:16 PM to 12:28 PM	NCRIEC519	A Unified Framework for Fake News Detection & Sentiment Analysis	M Ashritha	7899395929		
11	12:28 PM to 12:40 PM	NCRIEC541	The Areca Eye : Arecanut Disease Detection System Using ML	Vinutha K, Keerthana U	9611896343/ 8105751308,		
12	12:40 PM to 12:52 PM	NCRIEC542	EEG-Based ADHD Detection: CNN vs GCN	Yuvraj A	7795038548		



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No.14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109



NATIONAL CONFERENCE ON RECENT INNOVATIONS IN ENGINEERING NCRIE-2025

Internal Session Chair



Prof. Roopesh Kumar B N,
Associate Professor,
Dept. of Computer Science and Engineering,
K. S. Institute of Technology

4th December 2025

Session 2

External Session Chair



Dr. Jahnvi S,
Assistant Professor,
Dept. of Artificial Intelligence and Machine Learning,
B. M. S. College of Engineering

Track Details: CSE Track

Session Number: 03

Date & Day : 4th December 2025, Thursday

Time: 10.30AM to 1.30PM

Venue: DSA LAB-OB301 A/B 3rd Floor

Faculty Incharge: Mr. Abhilash L. Bhat Mobile Number: 9164465694		Student Coordinator : Rajath Kumar Y G Mobile Number: 9535518184			
Sl. No.	Timings	Paper ID	Title of the Paper	Author Name	Contact Number
1	10:30 AM to 10:42 AM	NCRIECS07	FairPlay Blockchain-Driven Randomness and Prize Distribution for Lotteries	Megha S	8618894784
2	10:42 AM to 10:54 AM	NCRIECS27	AI-Based Multi-Domain Cybersecurity Threat Detection System	VAISHNAVI DESAI	9380490530
3	10:54 AM to 11:06 AM	NCRIECS31	Intelligent Cattle Monitoring System Using IOT, Computer Vision and Deep Learning for Precision Livestock Farming	Keerthana V	8792586016
4	11:06 AM to 11:17 AM	NCRIECS11	Deepvision - End-to-End Deep Learning Model For Detecting Deepfakes and AI Images	Satya Karthik R	8618571804
5	11:17 AM to 11:28 AM	NCRIECS32	XSS Detection and Mitigation Using Deep learning	Geetha R	7829717239
6	11:28 AM to 11:40 AM	NCRIECS12	AI Invoice Extractor: An Intelligent Platform for Automated Data Processing using Generative AI	Jahnavi J H	7411758193
7	11:40 AM to 11:52 AM	NCRIECS34	A Voice-Based Mental Health Monitoring System using Machine Learning	Mrudula S	9242795952
8	11:52 AM to 12:04 PM	NCRIECS14	ThermoSense AI : Breast Cancer Detection	Rakshitha J	6362885529
9	12:04 PM to 12:16 PM	NCRIECS35	Green AI:Reducing Energy Consumption in Deep Learning Models	Puneeth R	9945486279
10	12:16 PM to 12:28 PM	NCRIECS22	Detecting Sugarcane Disease with Deep Learning	H P Rini Jain	9741206689
11	12:28 PM to 12:40 PM	NCRIECS43	A survey of IoT-Based Individual Air Pollution Inhalation Tracking System	Mrs. Pallavi R	7406622207
12	12:40 PM to 12:52 PM	NCRIECS44	Tomato Plant Disease Detection using CNN	Sameerana Chincholi	9448006793



KAMMAVARI SANGHAM - 1952

K. S. INSTITUTE OF TECHNOLOGY

An Autonomous Institution under VTU, Approved by AICTE
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No.14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109



NATIONAL CONFERENCE ON

RECENT INNOVATIONS IN ENGINEERING

NCRIE-2025

4th December 2025

Internal Session Chair



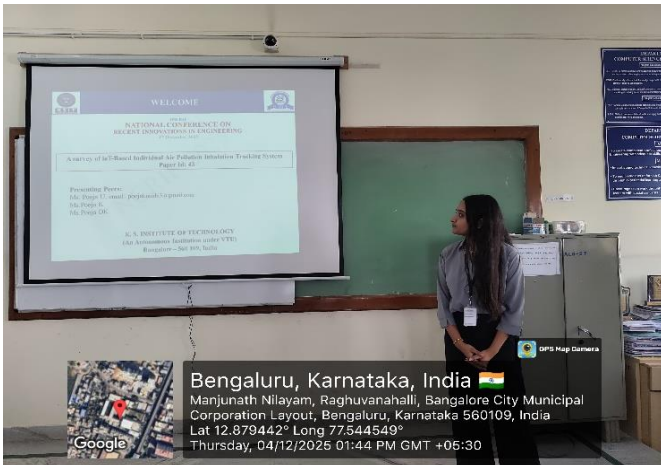
Dr. Krishna Gudi,
Associate Professor,
Dept. of Computer Science and Engineering,
K. S. Institute of Technology

External Session Chair



Dr. Malini M Patil,
Professor & Dean CSE Cluster,
R.V. Institute of Technology and Management

Glimpse of the Sessions



Bengaluru, Karnataka, India
 Manjunath Nilayam, Raghuvanahalli, Bangalore City Municipal Corporation Layout, Bengaluru, Karnataka 560109, India
 Lat 12.879442° Long 77.544549°
 Thursday, 04/12/2025 01:44 PM GMT +05:30



Bengaluru, Karnataka, India
 Raghuvanahalli, Raghuvanahalli, Bangalore City Municipal Corporation Layout, Bengaluru, Karnataka 560109, India
 Lat 12.879337, Long 77.544406
 Thursday, 04/12/2025 02:31 PM GMT+05:30
 Note : Captured by GPS Map Camera



Bengaluru, Karnataka, India
 Manjunath Nilayam, Raghuvanahalli, Bangalore City Municipal Corporation Layout, Bengaluru, Karnataka 560109, India
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Bengaluru, Karnataka, India
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Bengaluru, Karnataka, India
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 Note : Captured by GPS Map Camera



Bengaluru, Karnataka, India
 Raghuvanahalli, Raghuvanahalli, Bengaluru, Karnataka 560109, India
 Lat 12.879336, Long 77.544388
 Thursday, 04/12/2025 11:40 AM GMT+05:30
 Note : Captured by GPS Map Camera



Bengaluru, Karnataka, India
 Manjunath Nilayam, Raghuvanahalli, Bangalore City Municipal Corporation Layout, Bengaluru, Karnataka 560109, India
 Lat 12.879461° Long 77.544355°
 Thursday, 04/12/2025 01:39 PM GMT +05:30



Bengaluru, Karnataka, India
 Manjunath Nilayam, Raghuvanahalli, Bangalore City Municipal Corporation Layout, Bengaluru, Karnataka 560109, India
 Lat 12.879492° Long 77.544371°
 Thursday, 04/12/2025 01:40 PM GMT +05:30



04/12/2025 11:26 am GMT+5
Meenu Hulli, 80 Feet Rd, near KSIT Clg, 4th H block, Subramanyapura,
Bengaluru, Karnataka 560109
Lat: 12.879444 Long: 77.54438



Bengaluru, Karnataka, India
Manjunath Nilayam, Raghuvanahalli, Bangalore City Municipal
Corporation Layout, Bengaluru, Karnataka 560109, India
Lat: 12.879473° Long 77.544353°
Thursday, 04/12/2025 01:39 PM GMT +05:30



Conclusion

NCRIE–2025 was a remarkable success, showcasing the strong research potential and technical excellence of participants across multiple engineering domains. The conference provided an enriching platform for students, faculty, and industry professionals to engage in meaningful discussions, present innovative ideas, and explore emerging technological trends. The high-quality research contributions presented across the three CSE tracks reflected a deep understanding of real-world problems and modern engineering approaches. A special highlight of the event was the Best Paper Awards, where three outstanding teams from various colleges were recognized for their exceptional research work, innovative problem-solving approaches, and impactful presentations. Their achievements added great value to the conference and inspired fellow participants toward academic excellence. Overall, NCRIE–2025 strengthened KSIT’s commitment to fostering a vibrant research ecosystem and promoting multidisciplinary collaboration for societal and technological advancement.

EO#	EVENT OUTCOMES
EO1	To enhance participants' understanding of emerging engineering technologies and research trends aligned with the rapidly evolving CSE domain.
EO2	To develop participants' ability to analyze complex engineering problems and present research findings effectively using modern tools and methodologies.
EO3	To strengthen technical communication skills through well-structured paper presentations, discussions, and collaborative academic interactions.
EO4	To promote teamwork, leadership, and professional conduct among participants engaged in conference coordination, research presentation, and multidisciplinary sessions.
<p>PO1: Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.</p> <p>PO2: Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.</p> <p>PO3: Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required.</p> <p>PO4: Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions.</p> <p>PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.</p> <p>PO6: The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.</p> <p>PO7: Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.</p> <p>PO8: Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.</p> <p>PO9: Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences</p> <p>PO10: Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.</p> <p>PO11: Life-Long Learning: Recognize the need for, and have the preparation and ability for</p> <ol style="list-style-type: none"> i. Independent and life-long learning ii. Adaptability to new and emerging technologies and iii. Critical thinking in the broadest context of technological change. <p>PSO1: Ability to understand, analyze problems and implement solutions in Programming languages, as well to apply concepts in core areas of Computer Science in association with professional bodies and clubs.</p> <p>PSO2: Ability to use computational skills and apply software knowledge to develop effective solutions and data to address real world challenges.</p>	

EO-PO Mapping

EO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2
EO1	3	-	-	-	-	-	-	-	-	-	2	3	2
EO2	-	3	-	3	2	-	-	-	-	-	-	2	3
EO3	-	-	-	-	-	-	-	2	3	-	-	2	-
EO4	-	-	3	-	-	-	-	-	-	2	-	2	-

3	Substantial (High) Correlation
2	Moderate (Medium) Correlation
1	Slight (Low) Correlation
-	No correlation.

PO's Attained: PO1, PO2, PO3, PO4, PO5, PO8, PO9, PO10 and PO11.

PSO's Attained: PSO1 and PSO2.

CSE Track Co-Ordinator


HOD

Principal

Attachments

1. Communication with the resource person
2. Feedback

Communication with the Resource Person

 **Dr. sunita chalageri**
to me ▾

Fri, Dec 5, 5:25 PM (3 days ago) ☆ ↶

----- Forwarded message -----

From: Dr. sunita chalageri <dr.sunitachalageri@ksit.edu.in>
Date: Sat, Nov 29, 2025, 4:02 PM
Subject: Invitation to Serve as Session Chair for NCRIE-2025
To: malinimp.rvitm@rvei.edu.in <malinimp.rvitm@rvei.edu.in>

Greetings from K S Institute of Technology

Subject: Invitation to Serve as Session Chair for NCRIE-2025

It gives us great pleasure to invite you to serve as the Session Chair in the National conference in Recent Innovations in Engineering 2025 (NCRIE-2025) on 4th December at KSIT, Bangalore

Your expertise in Computer Science & allied branches Applications and your contributions to the academic/research community make you an ideal person to chair this session. We believe your presence will enrich the discussions and enhance the quality of the event.

Session Details:

- Session Name/Track: CSE & Allied Branches areas
- Date & Time: 4th December 2025 from 9.00 AM Onwards
- Venue/Mode: KSIT Bangalore

We would be delighted to have you accept this invitation. Kindly Acknowledge this mail confirming your availability at your earliest convenience.

We look forward to your positive response and valuable presence.

Please do share your short Bio-Profile.

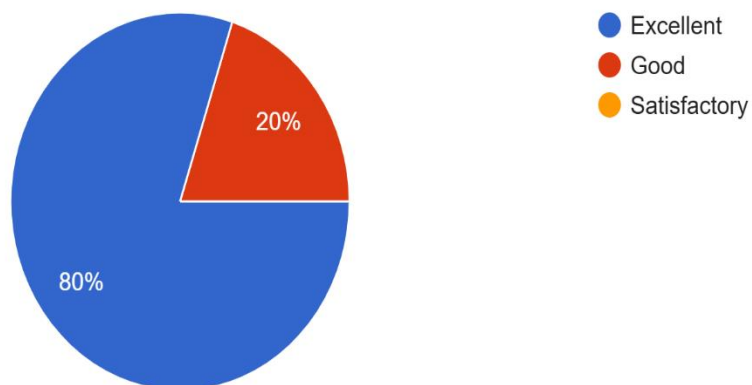
Evaluation and Feedback

Session Chair Feedback link: <https://forms.gle/BkBAVe5gqhoLbHj4A>

Feedback Summary:

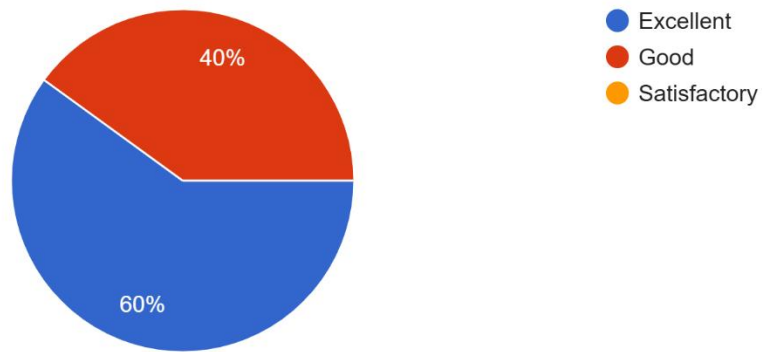
1.How well do the conference topics align with your professional interests?

5 responses



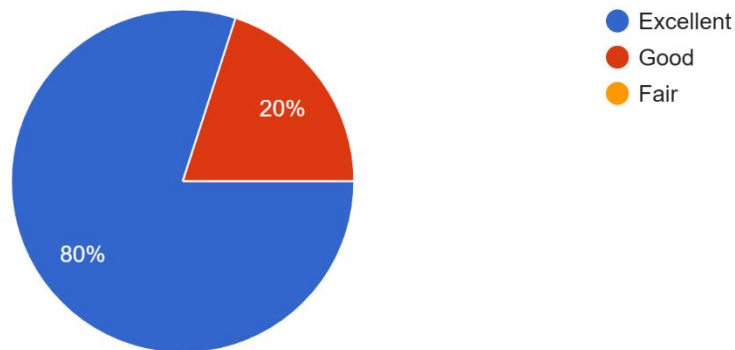
2. The Presenter/Speaker(s) communicated their research work effectively.

5 responses



3. The hospitality provided during the conference (refreshments, seating, etc.) was*

5 responses



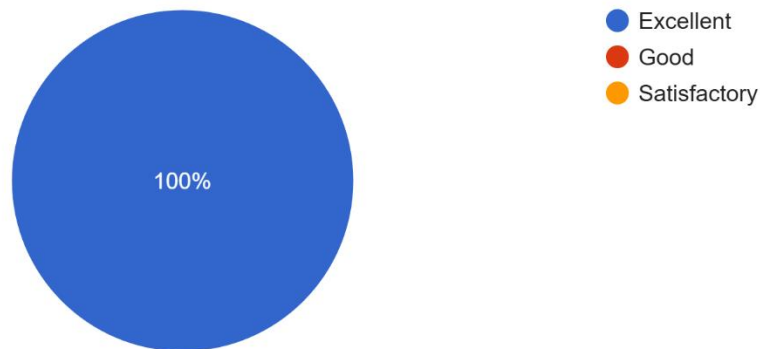
4. The networking opportunities provided during the session were beneficial.

5 responses



5. How would you rate the overall organization and experience of the conference?

5 responses



Impact Analysis

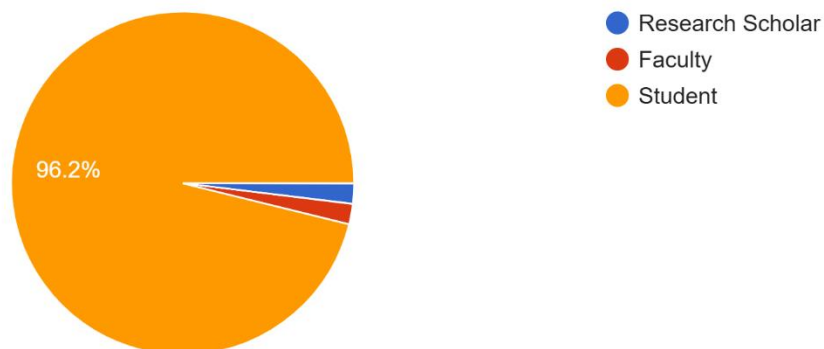
	How well do the conference topics align with your professional interests?	The Presenter/Speaker(s) communicated their research work effectively.	The hospitality provided during the conference (refreshments, seating, etc.) was*	The networking opportunities provided during the session were beneficial.	How would you rate the overall organization and experience of the conference?	Overall Impact factor
Excellent	80%	60%	80%	100%	100%	
Good	20%	40%	20%			
Satisfactory						
TOTAL	100%	100%	100%	100%	100%	100%

Authors Feedback link: <https://forms.gle/JCcNhSQFoaQSGUa47>

Feedback Summary:

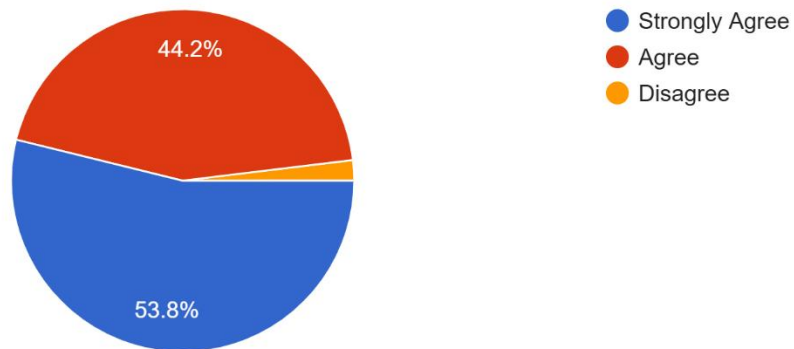
Participants

52 responses



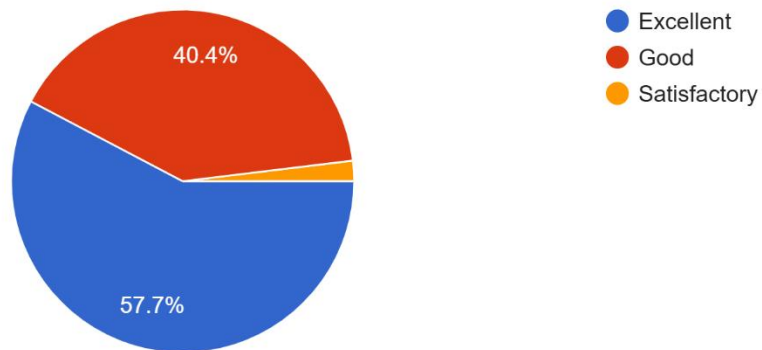
1. Gained valuable insights from this session.

52 responses



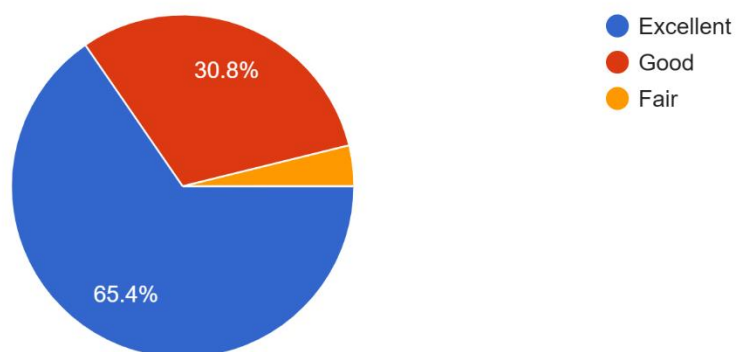
2. How well do the conference topics align with your professional interests?

52 responses



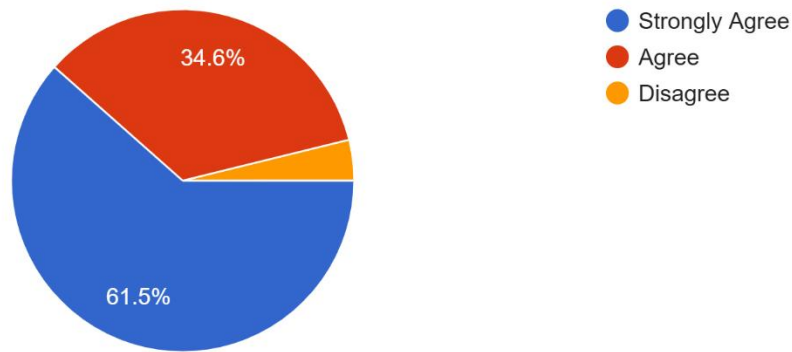
3. The hospitality provided during the conference (refreshments, seating, etc.) was*

52 responses



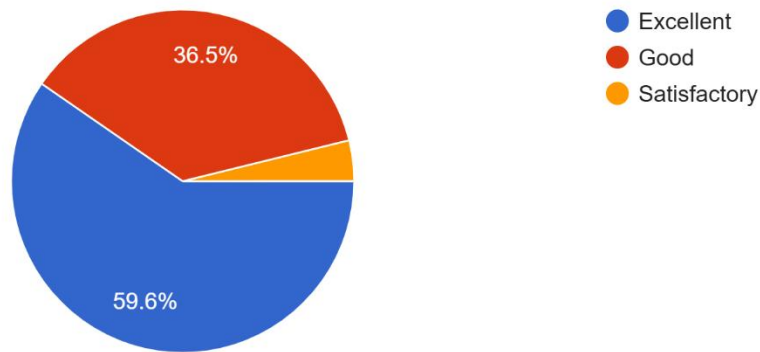
4. The networking opportunities provided during the session were beneficial.

52 responses



5. How would you rate the overall organization and experience of the conference?

52 responses



Impact Analysis

	Gained valuable insights from this session.	How well do the conference topics align with your professional interests?	The hospitality provided during the conference (refreshments, seating, etc.) was*	The networking opportunities provided during the session were beneficial.	How would you rate the overall organization and experience of the conference?	Overall Impact factor
Excellent	53.8%	57.7%	65.4%	61.5%	59.6%	
Good	44.2%	40.4%	30.8%	34.6%	36.5%	
Satisfactory	1.9%	1.9%	3.8%	3.8%	3.8%	
TOTAL	99.9%	100%	100%	100%	100%	99.9%