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CONVENOR

Dr. Nagmani N Purohit
Associate Professor & HOD,
Dept. of Information Science And Engineering,
JSSATE, Bengaluru Ph: 9980202664

COORDINATORS

Dr. Nethravathi B
Associate Professor,
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Ph: 9741895281

Dr. Sowmya K N
Associate Professor,
Dept. of ISE, JSSATEB
Ph: 9945505336

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Mrs. Pushpalatha M
Mrs. Tejaswini

IMPORTANT DATES

Last date for Submission	08th May 2025
Acceptance Intimation	15th May 2025
Last date for Registration	18th May 2025
Camera ready Paper submission	22th May 2025

Paper Format:
Kindly adhere to the paper formatting guidelines outlined in the template available at the link below:
https://jssateb-journal.vercel.app/submission

Email your entries to:ncait.jss2025@gmail.com

SUBMISSION GUIDLINES

Category	Amount
Paper Presentation	Rs.400/- (Including GST)
Poster Presentation	Rs. 100/- (Including GST)

NEFT DETAILS

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Accepted and Presented papers will be published in :
JSS Journal of Scientific Studies, ISSN 2583-5815 and selected paper's extended work will be communicated to Scopus indexed journal

Best Papers & Posters will be Awarded

JSS Mahavidyapeetha
JSS ACADEMY OF TECHNICAL EDUCATION
BENGALURU - 560 060

11th National Conference On ADVANCEMENTS IN INFORMATION TECHNOLOGY

NCAIT-2025   26th April 2025

Organized By:

Department of Information Science and Engineering

JSS Academy of Technical Education

JSS Campus, Dr. Vishnuvardhana Road,
Bengaluru-560060, Karnataka, India
www.jssateb.ac.in

ABOUT THE INSTITUTE

JSS Academy of Technical Education (JSSATE) Bengaluru, was established in the year 1997 under the umbrella of JSS Mahavidyapeetha, Mysuru. The academy is the result of the vision of our President, His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamigalavaru to establish a world class institution for Technical Education. The Campus is located amidst a sprawling 21.17 acres land surrounded by lush green plantation on the fringers of Turahalli forest in south Bengaluru. The institution is affiliated to Visvesvaraya Technological University (VTU), Belagavi, India, and is approved by AICTE, New Delhi. The institution has an excellent infrastructure with the state of the art equipment and machinery as laboratory facilities. The institution has highly qualified faculty & has initiated number of multi disciplinary and multi institutional R and D programs. The institute has good number of R and D projects sponsored by DST, AICTE, VTY, BGST, KSCST and others. JSSATEB is accredited with A+ grade by National Assessment and Accreditation Council(NAAC).

ABOUT THE DEPARTMENT

The Department of Information Science and Engineering is established in the year 1999. The current UG intake is 180. The department also offers PG course M.Tech in Data Science with a intake of 12. Department is strengthened by well qualified faculty members, main aim is to emphasize the overall growth and development of students with cutting edge technology by inculcating competence, commitment and team work. The department comprises excellent infrastructure with well equipped laboratories, class rooms and departmental library. Faculty members of the department and students are members of professional societies like ISTE, CSI, IEEE, IEI, ACM etc. Under the R and D activity, faculty and students are actively engaged in the publication of research papers in top refereed journals and international conferences indexed in Web of Science and Scopus.

ABOUT THE CONFERENCE

Department of Information Science & Engineering is proud to organize the 11th National Conference on Advancements in Information Technology (NCAIT-2025), with a theme of "AI Brains & Infinite Memory". The Objective of NCAIT-2025 is to provide a forum for all the Research Scholars, UG & PG students to explore their innovative Idea fostering Research and Development, explore new opportunities. Outcome of NCAIT-2025 is to demonstrate the knowledge towards Domain specific initiatives of Advancements in Information Technology. Key Note Session will be delivered by eminent speakers (academician / Industry experts).

CALL FOR PAPERS

- Artificial Intelligence
- Machine Learning
- Block Chain
- Cyber Security
- Internet of Things
- Data Science, Data Analytics
- Software Engineering
- Robotics
- Cloud Computing
- Networking
- Image Processing
- Parallel Computation
- Web Services
- Wireless Sensor Network
- High Performance Computing
- Multi Media Communication
- Natural Language Processing
- Data Mining

More Preference will be given to papers with Sustainable Development Solutions. The listed topics are indicative, and papers on other relevant themes are also encouraged.

GUIDELINES FOR AUTHORS

The Papers submitted to the Conference must be original and not submitted elsewhere or published. Plagiarism of the paper should not be greater than 15%.

FORMAT AND SUBMISSION

Full length paper must be in the format of JSS journal of Scientific studies (Max 10 pages) on the above topics for the Conference. Kindly adhere to the paper formatting guidelines outlined in the template available at the link : https://jssateb-journal.vercel.app/submission

For Poster Presentation, each team should send the title of the Posters to ncait2025@gmail.com.
The acceptance of the Paper will be intimated after peer-review and based on Plagiarism report.
At least one of the authors of the accepted paper should register by sending payment through NEFT on or before 18th May 2025.

TARGET AUDIENCE:

Students, Research Scholars and Faculty

Contact Us At:

Dr. Nethravathi B
Mobile: 9741895281

Dr. Sowmya K N
Mobile: 9945505336

E-mail: ncait.jss2025@gmail.com
hodise@jssateb.ac.in | www.jssateb.ac.in

REGISTRATION FORM

11th NATIONAL CONFERENCE
On
ADVANCEMENTS IN INFORMATION TECHNOLOGY

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Dr/Mr/Ms ....

for the 11th National Conference on Advancements in Information Technology (NCAIT-2025)

Date Signature of HOD / Principal

National Conference on Advancements in Information Technology (NCAIT-2025)

Coordinators: Dr. Nethravathi B and Dr. Sowmya K N

The **Dept. of ISE** at **JSSATEB**, proudly hosted the **11th edition** of the **National Conference on Advancements in Information Technology (NCAIT-2025)**. This annual conference, was organized under the **Samyog Student Forum**, that has been a hallmark tradition of the department, successfully conducted for the past **11 consecutive years**.

The theme for this year's conference was **"AI Brains & Infinite Memory"**, emphasizing the evolving landscape of artificial intelligence and its limitless potential in the field of information technology. We received 72 research papers from more than 15 participating institutes and 43 were considered for publication.

Objectives

The core objectives of **NCAIT-2025** were:

- To provide a platform for **Undergraduate (UG)**, **Postgraduate (PG)** students, and **Research Scholars** to present their **innovative ideas**.

- To foster a culture of **Research and Development** within the student and academic community.

- To explore **emerging opportunities** and promote **domain-specific advancements** in Information Technology.

Conference Highlights

- **Keynote Sessions** were delivered by **eminent speakers** from **academia and industry**, bringing insights into current trends and future possibilities in AI and IT.

- Participants presented research papers aligned with the conference theme, showcasing innovative solutions and technological insights.

- The conference enabled **inter-institutional collaboration**, exposure to **cutting-edge research**, and enhanced academic dialogue.

Participation Overview

- **Total Submissions Received**: 72
- **Accepted Papers**: 43
- **Acceptance Rate**: 62.5%

This selective acceptance ensures high-quality presentations and upholds the academic standard the conference has maintained over the years.

Participating Institutions

A total of **15+ institutions** contributed to NCAIT-2025. The top participating institutions included:

Institution	Approx. Submissions
JSS Academy of Technical Education, Bengaluru (JSSATEB)	30+
Jyothy Institute of Technology, Bengaluru	10+
AMC Engineering College, Bengaluru	7+
BMS College of Engineering (BMSCE), Bengaluru	5
Others (BNMIT, RNSIT, Dayananda Sagar, VTU, etc.)	1–3 each

This wide institutional participation reflects the growing interest and importance of the conference across Karnataka and other states.

Legacy and Impact

NCAIT continues to be a significant initiative of the **Samyog Student Forum**, serving as a vital platform for **academic growth, innovation, and research**. With a legacy of over a **decade**, the conference has consistently nurtured young talent and advanced technological discourse in the domain of Information Technology.

NCAIT-2025 was yet another successful chapter in the ongoing journey of academic excellence led by the Department of ISE. The conference not only provided participants with a forum for expression but also inspired future initiatives focused on AI, innovation, and interdisciplinary research.

JSS Mahavidyapeetha
JSS Academy of Technical Education, Bengaluru
Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka, INDIA
Approved by All India Council for Technical Education, New Delhi
UG programs accredited by NBA: E & IE, E&C, CSE
Accredited by NAAC with A+ Grade

Department of Information Science and Engineering

Date:31/05/25

Title of the program: National Conference on Advancements in Information Technology (NCAIT-2025) at JSS Academy of Technical Education, Bangalore on 28th May 2025.

Brief report

The Dept. of ISE at JSSATEB, proudly hosted the 11th edition of the National Conference on Advancements in Information Technology (NCAIT-2025). This annual conference, organized under the Samyog Student Forum, has been a hallmark tradition of the department, successfully conducted for the past 11 consecutive years. The theme for this year's conference was "AI Brains & Infinite Memory", emphasizing the evolving landscape of artificial intelligence and its limitless potential in the field of information technology. We received 72 research papers from more than 15 participating institutes and 46 were considered for publication as part of conference proceedings in our in-house journal - JSS Journal of Scientific Studies.

The inauguration ceremony of the the 11th edition of the National Conference on Advancements in Information Technology (NCAIT-2025) was held at JSS Academy of Technical Education, Bangalore and was organized by Department of Information Science and Engg., JSSATEB on 28th May 2025. The program started at 11.00 AM at seminar hall 1, with various participants from more than 15 engineering colleges across India. The Chief Guest was Mr. Pradeep M. P, Head of Cloud Security, Privacy & Compliance – Europe & Americas – Ericsson, Bengaluru. The inauguration was attended by Honorable Principal Dr. Bhimasen Soragaon, Dean Academics Dr. Rekha P.M and Dean Research Dr. Mahesh M and section heads of other departments in the institute. Associate Professor and HOD, Dr Nagamani N P welcomed the participants and dignitaries. Dr. Sowmya K.N, Associate Professor and NCAIT 2025 Coordinator briefed about the annual conference to the audience.

The Chief Guest Mr. Pradeep M. P delivered an insightful keynote address highlighting the benefits of the IEEE ITS Branch Chapter for students. He emphasized how AI is rapidly evolving from basic automation to advanced intelligence with limitless memory, enabling continuous learning and wide application. He gave real world examples of how it is revolutionizing industries—from healthcare to finance—by enhancing decision-making and operations. He highlighted how this shift opens new research frontiers in ethical AI, cognitive computing, and autonomous systems for human-centric

innovation. The Presidential Address was delivered by Principal Dr. Bhimasen Soragaaon, who appreciated the efforts of the organizing team and motivated students to actively participate, exchange ideas and learn new things. The event concluded with a heartfelt Vote of Thanks by NCAIT 2025 coordinator Dr. Nethravathi B, Associate Professor, Dept. of ISE. She expressed gratitude to all the dignitaries, session chairs, reviewers, participants, and volunteers who contributed to the success of the event. IEEE – ITS Bangalore chapter was thanked for their sponsorship for the best paper award. The inaugural session ended at 12 PM followed by a paper presentation in 5 different session tracks. Lunch was arranged for all participants. The conference concluded at 4.00 pm and the prize winners for each track were announced and honoured.

Photographs with captions

Pic 1: Lighting the Lamp by . Dignitaries. On the dais 1.Dr. Mahesh B, Dean Research 2.Dr. Sowmya K.N, Associate Professor &Coordinator NCAIT -2025 3. Chief Guest Mr. Pradeep M. P, Head of Cloud Security, Privacy & Compliance – Europe & Americas – Ericsson, Bengaluru 4.Dr. Nagamani N P, Associate Professor & HOD, Dept of ISE, 5. Dr. Nethravathi B , Associate Professor &Coordinator NCAIT -2025 , 6 Dr. Bhimasen Soragaon Principal, JSSATE 7 Dr. Rekha P M, Dean Academics

ಉತ್ತರಹಳ್ಳಿ ಮುಖ್ಯರಸ್ತೆಯಲ್ಲಿರುವ ಜೆಎಸ್ಎಸ್ ಕಾಲೇಜಿನಲ್ಲಿ ಮಾಹಿತಿ ವಿಜ್ಞಾನ ಮತ್ತು ಇಂಜಿನಿಯರಿಂಗ್ ವಿಭಾಗ ಏರ್ಪಡಿಸಿದ್ದ ರಾಷ್ಟ್ರೀಯ ಕಾರ್ಯಾಗಾರದ ಉದ್ಘಾಟನೆ ವೇಳೆ ಕ್ಲೌಡ್ ಸೆಕ್ಯೂರಿಟಿ ಮುಖ್ಯಸ್ಥ ಎಂ.ಪಿ. ಪ್ರದೀಪ್‌ಕುಮಾರ್, ಪ್ರಾಂಶುಪಾಲ ಡಾ. ಭೀಮಸೇನ ಸೊರಗಾಂವ್, ಸಂಯೋಜಕಿ ಡಾ.ಬಿ. ನೇತ್ರಾವತಿ, ಡಾ.ಕೆ. ಎನ್. ಸೌಮ್ಯಾ, ಸಂಚಾಲಕಿ ಡಾ.ನಾಗಮಣಿ ಎನ್. ಪುರೋಹಿತ್ ಮತ್ತಿತರರಿದ್ದರು.

Pic 2. Media Coverage in Vijaya Karnataka on31/05/2025 of NCAIT - 2025 Inaugural Event

Pic 3. Session Chairs Dr. Bhagyashree, RNSIT and Dr. D.V Ashoka with NCAIT 2025 Coordinators & Students

Pic 4.Session Chairs Dr.Seemanthini K, BMSCE and Dr. Rekha P.M with NCAIT 2025 Coordinators & Students

Pic. 5 Dept. of ISE Faculty Fraternity with Honourable Principal and Chief Guest Pradeep M.P , Erricson

Pic. 6 Session Chairs Dr. Nagaveni V, AMC College and Dr. Naidilla S with NCAIT 2025 Coordinators & Students

Paper Details:

No. of papers Submitted	No. of papers Accepted	No. of papers Rejected	No. of papers Presented
73	46	27	44

Best Paper Award details:

Track No.	Student Names	College Name	Paper Title	Prize amount
1	Mukunda M A V Ranganath Pramith S Chandan G S	JSSATE, Bengaluru	AI - Powered Genetic Inheritance Analysis Tool: Gene Vision	Rs. 1000/-

2	Shreya Gore Satwik G Vaidya Rachana Deepak Kadkol Mamatha G	JSSATE, Bengaluru	AI-Powered Resilience System for Urban Flood Mitigation and Heat Climate Adaptation: A Review	Rs. 1000/-
3	Suhruth S K Deepa N P Jamuna S Skanda P Bhatta Vinay K	Dayanand Sagar College of Engineering, Bengaluru	Developing LDPC MinSum Decoder for NAND Flash Memory	Rs. 1000/-
4	Ramya B N Khushi S Sorathia Jyothish S Prabhava R Bhat Monisha Bharadwaj M H	Jyothi Institute of Technology, Bengaluru	Accelerated Lunar Landing with Rainbow DQN	Rs. 1000/-
5	Poojitha K Mowlya B A Swarnashree S	BGS college of Engineering and Technology, Bengaluru	Deep Dive into Predictive Analytics of Employee Attrition	Rs. 1000/-