

Registration Fees

Academicians / Research scholars /
Students / Industry Experts : Rs.350/-
Paper Submission : Rs. 500/-

Mode of Payment

All UPI Payments
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Name of the Bank - City Union Bank
Branch - SIGC Campus
Account Name - The Principal
Account No - 023001000138280
MICR Code - 620054002
IFSC Code - CIUB0000023

Scan for Online Registration



*Registration is mandatory for all participants

Last Date for Abstract Submission

30 December 2024

Last Date for Full paper Submission

6th January 2025

The abstract and full paper is to be
submitted to icngt@sigc.edu

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SHRIMATI INDIRA GANDHI COLLEGE

(Affiliated to Bharathidasan University)
Nationally Accredited at 'A' Grade (4th Cycle) by NAAC | An ISO 9001 : 2015 Certified Institution
Tiruchirappalli - 620 002



Department of Computer Applications
(AICTE Approved)

organizes an

International Conference

on

**"Next Generation Technologies
for
Sustainable Computing"**

ICNGT 2025



24th January, 2025

at 9:00 a.m.

Venue

Vidya Seva Ratnam Shri K. Santhanam Auditorium

ABOUT THE COLLEGE

Shrimati Indira Gandhi College is a self-financing Arts and Science College for women, affiliated to the Bharathidasan University. The college is located at the centre of Tiruchirappalli City. It was established in 1984 with the objective of providing opportunities for higher education to girls in general and to rural girls in particular. It promotes the empowerment of women through education, employment and economic independence. It aims to contribute to national development by producing skilled and virtuous graduates with a thirst for knowledge and excellence. It has been recognized by the University Grants Commission under section 2(f) and 12 (b) in the year 1994. The college was accredited with the prestigious "A" Grade by NAAC for the 4th time.

ABOUT THE DEPARTMENT

The Department of Computer Applications at Shrimati Indira Gandhi College, affiliated with Bharathidasan University, Tiruchirappalli, is dedicated to providing quality education in the field of computer applications. The department envisions empowering students with advanced knowledge and skills in computer applications, fostering innovation, ethical practices, and contributions to society through technology-driven solutions. It offers AICTE approved undergraduate and postgraduate programs, the Bachelor of Computer Applications (BCA) and the Master of Computer Applications (MCA). These programs are designed to equip students with expertise in programming, software development, data analytics, and emerging technologies such as artificial intelligence, machine learning, and cloud computing.

About the Conference

This conference theme delves into the integration of emerging technologies and innovative practices to achieve sustainable computing solutions. As the world increasingly relies on computational power to solve critical challenges, there is an urgent need to ensure that these advancements are not only efficient but also environmentally responsible. The theme highlights the pivotal role of next-generation technologies, including artificial intelligence, machine learning, green computing and energy-efficient systems, in reducing carbon

footprints and promoting eco-friendly practices in the digital world. It also underscores the importance of sustainable software engineering, renewable energy integration in IT infrastructure, and the creation of smart systems that cater to societal needs while preserving natural resources. Moreover, the theme seeks to explore how these technologies can revolutionize industries such as healthcare, agriculture, education, and urban development through innovative, low-power solutions, while ensuring data security, scalability, and affordability. By bringing together researchers, academicians, and industry practitioners, the conference aims to foster discussions, collaborations, and innovations that align technological growth with global sustainability goals.

This theme provides a platform to reimagine computing technologies as tools not only for progress but also for building a sustainable and equitable future for all.

Call for papers

Research based papers are invited from the academicians, research scholars and practitioners. All the abstracts of the papers will be published in the proceedings of the conference with ISBN. Selected papers will be peer reviewed and published in Indian Journal of Science and Technology (IJST - Web of Science Indexed) APC based Gold Open Access publication with minimum charge.

Conference Themes

- Artificial Intelligence and Machine Learning
- Cybersecurity and Ethical Hacking
- Blockchain Technology and Cryptocurrencies
- Cloud Computing and Edge Computing
- Internet of Things (IoT) and Smart Systems
- Quantum Computing and Its Applications
- Natural Language Processing (NLP) and Conversational AI
- Computer Vision and Image Processing
- Big Data Analytics and Data Science
- Metaverse Development and Immersive Computing
- Neuromorphic Computing and Brain-Inspired Systems
- Ethical and Social Implications of Emerging Technologies
- Digital Transformation and Industry 4.0

Manuscript Submission Guidelines (In Brief)

Abstract

- › Use sub-headings: Objectives, Methods, Findings, Novelty, Keywords.
- › Include quantitative data; avoid vague claims.

Introduction

- › Include 10 recent references (2024–2020).
- › Analyze research gaps and justify how the current work fills them.

Methodology

- › Detail database/dataset, sample size, and parameters used.
- › Explain algorithm modifications and comparisons with Gold Standard methods.

Results and Discussion

- › Compare current results with published works on accuracy, cost, benefits, and reliability.
- › Highlight advantages and quantitative evidence.

Conclusion

- › Show how objectives are met and emphasize novelty.
- › Include limitations and future prospects with data-backed insights.

References

- › Max 25 references, 90% from 2024–2020.
- › Include DOI or URLs for each citation. Avoid pre-2018 references unless essential.
- › The citation should be as per the journal style i.e., numerically increasing order [1], [2], [3] etc (not author name, year) and not as zigzag like [1], [5], [3] and the same way to be listed under reference.

Formatting

- › Submit as a Word document (.docx) in single-column format.
- › Include line numbers and editable MathType equations.
- › Short manuscript (5 to 6 pages excluding the figures and tables)
- › Table and figures together less than 10 numbers