



“Let us come into His presence with Thanksgiving;” - Psalm 95:2

St. Joseph's College of Arts and Science for Women

(Affiliated to Periyar University, Salem)

Mookandapalli, Hosur.



ComSTA

Computer Science Technical Association Committee requests

the honor of your presence on the occasion of the

Third International Conference

On

“IT Research & Innovation: IoT for a smarter future”

About the College

St. Joseph's College of Arts and Science for Women was established in the year 2006 with the motto “Knowledge Purifies and Charity Enhances”. It is affiliated to Periyar University, Salem and managed by the FSPM Sisters, Coimbatore. We empower young women with knowledge, skills, holistic approach and enable them to face the present society. The college offers various UG, PG and Research courses with a strength of more than 2000 students. The study at St. Joseph's College will certainly fetch a joyful and memorable experience of escalation in the aesthetics of education and ethnicity provided by the multi-cultured and multi-faceted presence of faculty & students who are persistent with the quest for excellence in proficiency. Its quiet surroundings, comprising of architecturally designed buildings, playgrounds and lush greenery make it one of the most preferred destinations for the aspirants.

The college fosters a strong academic environment, with an emphasis on experiential, participative, and problem-solving learning methods. In line with NEP 2020, it offers interdisciplinary learning options, value-added courses, skill development programs, and a mandatory outcome-based education model.

Library resources, digital learning tools, and a well-maintained campus environment (plastic-free, water-efficient, and with robust infrastructure) support students' development and safety.

This institution is positioned as an inclusive and progressive learning center, dedicated to fostering personal growth, professional development, and social responsibility among its students.

About the department

The Department of Computer Science at St. Joseph's College of Arts and Science for Women in Hosur is committed to equipping students with a solid foundation in both the theoretical and practical aspects of computing. Since its inception in the year 2006, the department has upheld a reputation for excellence, fostering a dynamic learning environment that promotes innovation, critical thinking, and problem-solving skills.

With a curriculum designed to meet industry demands and a faculty team comprising experienced educators and researchers, the department offers programs that cover core and emerging areas of computer science, including software engineering, artificial intelligence, data science, and cybersecurity. The department with around 500 students and 17 faculty members also supports student-led initiatives, including participation in coding competitions, hackathons, and collaborative research projects, providing a platform for students to apply their knowledge in real-world scenarios.

Aims and Objectives

Exhibit the best qualities of a liberal, holistic education by becoming knowledgeable, compassionate, moral, well-spoken individuals with prudence.

Continue pursuing advanced studies, R&D, and other innovative initiatives in science and technology.

Getting involved in computer science and software development, comprehend the core ideas behind it, and keep advancing their technical skills.

Be a leader in the community, the workplace, and academia.

Motto

Disseminating Technology in Young Minds.

ComSTA:

Vision

To endow young women to acquire specialized knowledge in Computer Science so to succeed in their profession, and contribute to society at large.

Mission

Concentrate on the overall development of the students.

To meet the challenges of industrial need.

Better the nation through research in science and technology of computing.

Gnosis Club

Vision

GNOSIS inspires positive action and helps to create an environment of love respect and cooperation in society.

Mission

To encourage the marginalized sectors of society.

To proliferate the food with mortal by providing relevant and responsive programs.

Key Highlights:

- **Industry Partnerships:** Collaborations with leading tech companies and research institutions provide students with exposure to the latest industry practices and technologies.
- **State-of-the-Art Labs:** Equipped with high-performance computing systems and software resources, our labs enable hands-on learning and experimentation in fields such as AI, IoT, and networking.
- **Research and Innovation:** The department actively encourages students to engage in research, providing support for projects in emerging areas like machine learning, cloud computing, and data analytics.
- **Holistic Development:** In addition to technical knowledge, the department emphasizes soft skills and ethical awareness, preparing students to become responsible professionals in the global tech landscape.

The Department of Computer Science with programmes like B.Sc., Computer Science, B.C.A, B.Sc Data Science, M.Sc Computer Science, continuously strives to create a forward-thinking and inclusive environment where students are encouraged to push the boundaries of technology, contribute to the local and global community, and excel as future leaders in the field of computer science.

About the conference ICITRI - 2025

Conference Overview:

This conference aims to bring together researchers, academicians, industry experts, and students from diverse disciplines to discuss the latest advancements in computer science and its applications across fields. With an increasing demand for innovative solutions to complex challenges, this conference provides a platform to explore how computer science intersects with fields such as data science, artificial intelligence, biology, engineering, social sciences, and business. Participants will have the opportunity to engage in presentations, panel discussions, workshops, and networking sessions to share ideas, research findings, and potential solutions that drive innovation across industries.

Conference Objectives:

- To facilitate knowledge exchange on emerging trends and technologies in computer science and related fields.
- To explore the interdisciplinary applications of computer science in solving real-world problems.
- To encourage collaborative research and development that spans multiple fields.
- To foster discussions on the societal impact, ethics, and governance of technological innovations.

Target Audience:

The conference will be of interest:

- Researchers and faculty from computer science and related disciplines.
- Industry professionals interested in multidisciplinary applications of technology.
- Graduate and postgraduate students from technical and non-technical fields.
- Policy makers and organizations interested in technology's impact on society.

Proposed Topics but not limited to:

1. **Artificial Intelligence and Machine Learning (AI/ML) Across Disciplines**
 - Applications of AI in healthcare, environmental science, and finance.
 - Advances in deep learning and neural networks for image and language processing.
 - Machine learning in social sciences: Predictive analytics for public policy and behavioral studies.

- Ethical considerations in AI applications across fields.

2. Data Science and Big Data Applications

- Big data analytics in biology and bioinformatics.
- Leveraging data science for smart cities and sustainable urban development.
- Real-time data analysis in finance and stock market prediction.
- Integrating data science methodologies in educational research.

3. Cybersecurity and Information Assurance

- Cybersecurity strategies in IoT and cloud computing.
- Blockchain for secure transactions in e-commerce and finance.
- Data privacy and ethics in healthcare and public sector applications.
- Cybersecurity frameworks for social media and digital platforms.

4. Internet of Things (IoT) and Smart Systems

- IoT applications in agriculture for precision farming.
- Smart home automation and IoT in residential and urban planning.
- Sensor-based monitoring systems in healthcare.
- Industrial IoT: Automation and process improvement in manufacturing.

5. Human-Computer Interaction (HCI) and User Experience Design

- Designing user interfaces for education technology tools.
- HCI in augmented and virtual reality for entertainment and training.
- Accessibility in digital tools for people with disabilities.
- UX design principles in mobile application development.

6. Cloud Computing and Virtualization

- Cloud infrastructure for scalable research in various disciplines.
- Virtualization in education: Cloud-based learning platforms.
- Sustainable computing with serverless and edge computing models.
- Cloud-based data storage and privacy issues.

7. Computational Biology and Bioinformatics

- Genomic data analysis and personalized medicine.
- Computational modeling in drug discovery and vaccine development.
- Machine learning algorithms for biological data classification.
- Integrating bioinformatics tools in healthcare systems.

8. Quantum Computing and Its Potential Applications

- Quantum computing algorithms for optimization problems in logistics.
- Quantum cryptography for enhanced cybersecurity.
- Simulation of complex molecules and materials in chemistry.
- Challenges and future prospects of quantum computing in various fields.

9. Robotics and Automation in Industry 4.0

- Robotics in medical surgery and rehabilitation.
- Automated agricultural systems: Drones and robotic machinery.
- Robotics in manufacturing: Reducing human error and enhancing efficiency.
- Ethical implications of robots in workforce automation.

10. Digital Transformation and Business Analytics

- Transforming traditional business models with AI and analytics.
- Predictive analytics for supply chain management.
- E-commerce data analysis for customer behavior prediction.
- Blockchain for decentralized finance (DeFi) and logistics.

11. Sustainability and Green Computing

- AI and IoT for environmental monitoring and conservation.
- Green computing practices for energy-efficient systems.
- Sustainable cloud solutions and carbon footprint reduction.
- Using technology for monitoring and promoting environmental sustainability.

12. Educational Technology and E-Learning Innovations

- Adaptive learning algorithms and personalized education.

- Virtual classrooms and remote learning tools.
- Data-driven insights for educational curriculum design.
- Gamification and AR/VR applications in teaching.

Committee:

Organizing Committee

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Superior General, Presentation Convent, Big Bazaar Street, Coimbatore

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Assistant Professor, Dept of Computer Science,
St. Joseph's College of Arts and Science for Women, Hosur

Publication Chair

Mrs. S. Bobby

Assistant Professor, Dept of Computer Science,
St. Joseph's College of Arts and Science for Women, Hosur

Advisory Committee Members

- Ms. Agnes Priyadharshini, Data Scientist, TMP Worldwide, New york, USA.
- Mrs. P. Amuthavalli, Senior Associate, Cognizant Technology Solutions, Teaneck, New Jersey, USA.
- Mr. Anoosh Gnana, Analog Circuit Design Engineer, Apple Inc., USA.
- Dr. S. Arockiasamy, Dean & Associate Professor in Information Systems, College of Economics, Management & Information Systems, Birkat Al-Mouz Nizwa, Sultanate of Oman.
- Mr. Blexon Prem Innocent, Technology Analyst, Innovapost Inc, Kanata.
- Mr. Gomesh Namasivayam, Senior Developer, Cognizant Technology Solutions, Riga, Latvia.
- Dr. Mohammed Gouse Galety, Assistant Professor, Department of Computer Networking, Lebanese French University, Kurdistan Region, Iraq.
- Dr. B. Saravana Balaji, Assistant Professor, College of Engineering and Computer Science, Lebanese French University, Erbil, Kurdistan - Iraq.
- Dr. Saravanan Muthaiyah, Professor, Multimedia University, Malaysia.
- Dr. Sudhakar Periyasamy, Associate Professor, School of Computing, EiT-M, Mekelle University, Ethiopia.
- Dr. Suresh Shanmugasundaram, Professor, Botho University, Gaborone.

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Student Co-Ordinators

Ms. Sushmitha, III B.Sc.[CS], ComSTA President

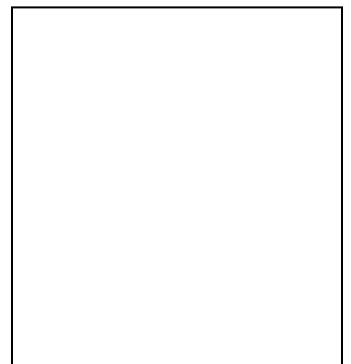
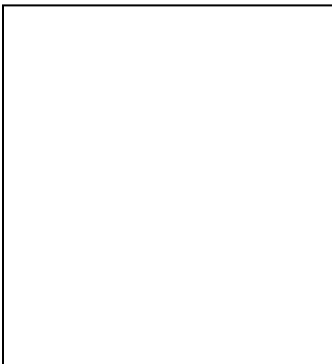
Ms. Bhargavi Bai, II B.Sc.[CS], ComSTA Secretary

Ms. Smitha, III B.C.A, Gnosis President

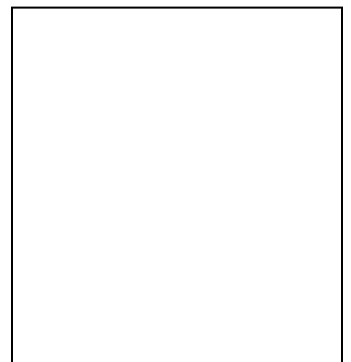
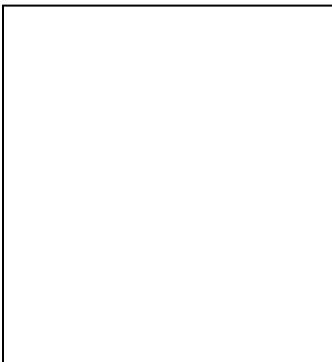
Ms. Rishika, II B.Sc.[DS], Gnosis Secretary

Speakers

Keynote Speakers



Session Speakers



Submission

Manuscript Submission

- Paper size should be maximum of 6-8 pages including all figures, tables, and references.
- All submitted papers will go through plagiarism check process.
- Manuscript should not contain embedded links, scanned images, header and footer.
- Email submissions will not be accepted.
- All the papers will be published in the conference proceeding with ISBN.
- All queries related to the conference shall be addressed to icitri2025@gmail.com

Registration Fee

Category	Fee*
Faculty / Industry Professional (Conference Kit, Lunch, E-copies of the Proceedings and Certificate)	Rs. 950
Students (UG/ PG/ Research)	Rs. 900
Foreign Authors	\$50
Participant (Conference Kit, Lunch, Hard Copy of the Certificate)	Rs.300
Co-author	Rs.100

Important Dates

Full Paper Submission	December 30, 2024
Notification of Acceptance	January 10, 2025
Camera Ready Paper + Registration	January 12, 2025
Conference Dates	Yet to be announced

Get In Touch

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