



Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
Approved by Government of Tamil Nadu & Accredited by NAAC with 'A++' Grade (3rd Cycle-3.64 CGPA)
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CSI

AY 2024-25

Annual Report Computer Society of India-CSI

Introduction

CSI (Computer Society of India) continues to be instrumental in shaping the future of technology education and professional development. By fostering an environment of cutting-edge research, knowledge dissemination and career advancement, CSI not only empowers current IT professionals but also cultivates the next generation of tech leaders ready to excel in an rapidly evolving digital landscape. Through innovative initiatives that promote continuous learning, collaboration and industry engagement, CSI plays a transformative role in nurturing a dynamic IT community where individuals can exchange ideas, drive innovation and contribute meaningfully to technological advancement in the era of AI, blockchain and sustainable computing.

Executive Summary

CSI comprises dedicated members from various faculty of the computer science stream who are passionate about staying abreast of emerging trends and transformative technologies. CSI offers comprehensive development programs, workshops and certification courses designed to enhance the technical skills, professional competencies and industry readiness of students. Our focus for 2024-25 includes emerging areas such as Artificial Intelligence, Blockchain Technology, Cybersecurity, Cloud Computing and Sustainable IT Practices.

The objectives include

- To encourage and motivate students to become active CSI nominee members and engage with the professional community
- To involve students in presenting and participating in the CSI Students Webinar Series, National/International Conferences, Hackathons and Technical Tutorials
- To organize seminars, workshops, tutorials, coding competitions, tech expos and innovation challenges in association with CSI
- To publish student research articles and technical papers in CSI communications and peer-reviewed journals
- To nominate outstanding student papers for CSI communication and national-level awards
- To facilitate industry-academia collaboration through guest lectures, internships and live projects

- To promote research and development in emerging technologies such as AI, Machine Learning, Blockchain, IoT and Data Science
- To enhance employability skills through resume building, LinkedIn profile optimization and professional networking sessions
- To encourage participation in CSI certification programs and specialized training modules
- To foster innovation and entrepreneurship through startup incubation support and mentorship programs

Objective of the Event

The primary objective of the invited talk was to explore the transformative role of blockchain technology in promoting sustainability by addressing critical environmental, economic and social challenges. The session aimed to:

- Provide a comprehensive overview of blockchain technology and its core features: decentralization, transparency and immutability
- Highlight how blockchain can contribute to achieving the United Nations Sustainable Development Goals (SDGs)
- Discuss real-world applications of blockchain in sustainability-driven domains such as energy, supply chain and waste management
- Inspire students to pursue research and innovation at the intersection of technology and sustainability

Summary Report of the Event

The invited talk on "**Blockchain for Sustainability**" was held on **11 September 2024** from **10:30 AM to 12:30 PM** at Kamar Arangam, Dr. N.G.P. Arts and Science College, Coimbatore. The session, graced by Dr. Radha Damodaran as the Chief Guest and Resource Person, delivered valuable insights into the convergence of emerging technology and global sustainability imperatives. Dr. Damodaran commenced the proceedings with a foundational overview of blockchain architecture, emphasizing its key principles: decentralization, which eliminates single points of failure; transparency, which enables verifiable and auditable transactions; and immutability, which ensures data integrity and trust. Throughout the two-hour interactive session, participants explored practical applications of blockchain in renewable energy, carbon footprint management, supply chain transparency and waste management, while also addressing challenges such as energy-intensive protocols and regulatory constraints. The event concluded with an engaging Q&A segment, leaving students motivated to pursue interdisciplinary research at the intersection of technology and sustainable development.

- Proposed Solutions
- Adoption of energy-efficient consensus mechanisms such as Proof-of-Stake
 - Policy frameworks for green blockchain adoption
 - Hybrid models integrating IoT and blockchain

The session featured an interactive Q&A segment where students raised thoughtful questions on:

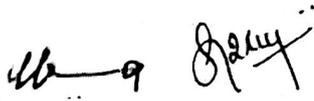
- Feasibility of blockchain in Indian rural contexts
- Career opportunities in green technology
- Academic pathways for sustainability-focused research

Outcome of the Event

1. Participants developed a structured understanding of blockchain fundamentals and their applicability to sustainability challenges
2. Students gained awareness of technical, regulatory and ethical dimensions of implementing blockchain solutions
3. The event inspired attendees to explore research topics and project ideas aligned with SDGs
4. Strengthened industry-academia connection through expert knowledge sharing

Additional CSI Coimbatore Chapter Activities (2024-2025)

SNO	Event Title	Date	Speaker
1	The Dark Side of AI – Risks, Challenges & Ethical Solutions	4 October 2024	Mr. Sairam Santharam, Global Cybersecurity & AI Evangelist, Principal Technology Advisor, SLN Consulting
2	Social Media: A Cybercrime Hotspot	23 October 2024	Mr. Divakar J Ethical Hacker, III Year B.Sc. (IT), KG College of Arts & Science, Coimbatore
3	Building Trust in AI: Standards, Frameworks & Regulations	13 November 2024	Mr. Sakthi Thangavelu, AI Regulatory Compliance Consultant Founder, Ethically.in
4	Breaking Barriers: Education & Employment for Visually Challenged	11 December 2024	Ms. Ponmeenakshi Viswanathan, Representative, Help The Blind Foundation
5	E-Commerce Exposed: Understanding Dark Patterns	25 December 2024	Mr. Sanjith Sivendra K III Year B.Tech (Information Technology), Coimbatore Institute of Technology


COORDINATOR


DEAN-FCS


PRINCIPAL