

ABOUT THE INSTITUTION

Nestled at the foothills of the Western Ghats, located in a sprawling 52-acre campus in Kovaipudur, Coimbatore, Sri Krishna College of Technology (SKCT), established in 1985, is a distinguished institution of higher education, promoted by the renowned Sri Krishna Institutions. A defining hallmark of the Institute is its exceptional provision of opportunities that empower individuals to explore, collaborate, and expand the limits of their potential.

As an autonomous institution affiliated with Anna University, Chennai, and approved by AICTE, New Delhi, Sri Krishna College of Technology (SKCT) places a strong emphasis on collaborative research and sets itself apart through its participatory work culture, comprehensive student support programs, and strong industry engagement. Over the past 38 years, it has evolved into one of the premier engineering institutions, renowned for excellence in learning, research, and innovation.

The college is accredited with an 'A' Grade by NAAC, and its eligible undergraduate programs are accredited by NBA, New Delhi. It offers 11 undergraduate and 6 postgraduate programs in the fields of Engineering, Technology, and Management Studies.

With a robust academic ecosystem, SKCT takes pride in its consistent record of student success and faculty excellence. Over 20,000 students have been placed in top-tier companies across diverse sectors, a testament to the institution's strong industry interface and placement support. With a team of over 250 accomplished professors, the institution fosters a rich and engaging academic environment.

SKCT's vibrant community of 25,000+ graduates reflects its enduring impact in producing visionary professionals and successful entrepreneurs. The institution's commitment to research and innovation is reflected in its impressive portfolio of 200+ patents and 2,000+ publications, driving advancements in science, technology, and society.

CHIEF PATRON

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ANRF SPONSORED TWO DAYS SEMINAR

ON

“AI-Driven Cryptography: Building Next-Gen Secure Networks”

14.07.2025 & 15.07.2025

Organized by

SCHOOL OF COMPUTING SCIENCES

Artificial Intelligence & Data Science



SRI KRISHNA COLLEGE OF TECHNOLOGY

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Kovaipudur, Coimbatore – 641 042

Tamil Nadu, India

www.skct.edu.in

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ABOUT THE DEPARTMENT (AI & DS)

The Department of Artificial Intelligence and Data Science (AI & DS) was established in 2021. The institution offers a four-year Bachelor of Technology (B.Tech.) programme with a dedicated focus on Artificial Intelligence and Data Science (AI & DS). The program has been thoughtfully designed to foster creativity, critical thinking, and problem-solving skills, thereby equipping graduates with the competencies required to develop sustainable solutions addressing both industrial and societal challenges. The institution prides itself on its modern infrastructure, comprising advanced laboratories that support experiential learning and research pursuits. The institution's commitment to integrating technology into education is further exemplified by the implementation of smart classrooms, fostering an immersive and interactive learning environment for students. To establish a Center of Excellence in the expansive field of Artificial Intelligence by addressing the evolving needs of both society and industry through a focus on education centered on knowledge acquisition, practical application, and pioneering research and innovation.

VISION

To build up a center of excellence in the extensive field of Artificial Intelligence by addressing the demands of both society and industry through a concentration on education that is centered on the acquisition and application of information, as well as innovation and innovative research.

MISSION

- To cultivate technocrats with robust core competencies in Artificial Intelligence through ongoing refinement of teaching and learning methods using state-of-the-art technologies.
- To evaluate the significance of information and analytics in shaping professional careers, research endeavors, and consultancy services.
- To encourage student's professional development activities by imparting ethical values and leadership skills, assisted by industry support.

OBJECTIVE OF THE PROGRAM

AI-driven cryptography is to revolutionize modern digital network security. Artificial intelligence makes it possible to create dynamic, flexible, and reliable security frameworks by incorporating it into cryptographic systems. AI improves threat detection by spotting weaknesses instantly and reacting to changing cyberattacks with never-before-seen speed and accuracy. AI adds flexibility to traditional cryptography systems, enabling algorithms to change in response to shifting security conditions. This is especially important for fighting new dangers like quantum computing, where artificial intelligence helps create robust post-quantum cryptography methods. Another significant benefit is automation, which AI makes easier by managing activities like secure communication protocols, certificate administration, and key management. This improves operating efficiency and lowers human error. Additionally, AI streamlines cryptographic operations, guaranteeing optimal performance without sacrificing security, especially in resource-constrained settings such as Internet of Things devices.

Modern networks require AI-driven cryptography to be scalable in order to support the exponential expansion of connected devices and maintain secure interoperability. It makes it possible to monitor encrypted networks in real time and quickly identify and eliminate threats. AI-driven cryptography provides the groundwork for safe, flexible, and robust digital ecosystems that can handle present and upcoming cybersecurity threats as we move into an era of smarter networks.

SEMINAR CONTENT

- ✓ **AI-Enhanced Cryptographic Techniques**
- ✓ **AI for Post-Quantum Cryptography**
- ✓ **Intrusion Detection Systems for Next Gen Secure Networks**
- ✓ **Blockchain and Cryptographic consensus mechanism**
- ✓ **Federated Learning**

GUIDELINES

REGISTRATION DETAILS

- Participants are requested to fill online registration form.
- Registration fee for Industry and Engineers from R&D Labs /Faculties from Academic Institution / Research Scholars / PG students: **Rs.150/**
- Compulsory attendance is required for seminar.
- Participation certificates will be issued to all candidates.

REGISTRATION:

Registration has to be done only through Google form link:

<http://bit.ly/413or5v>



DATES TO REMEMBER

- Last date for receiving applications is 10.07.2025
- Intimation of selection through E-mail by 11.07.2025