Sairam INSTITUTIONS

DEPARTMENT OF
ARTIFICIAL INTELLIGENCE &
DATA SCIENCE

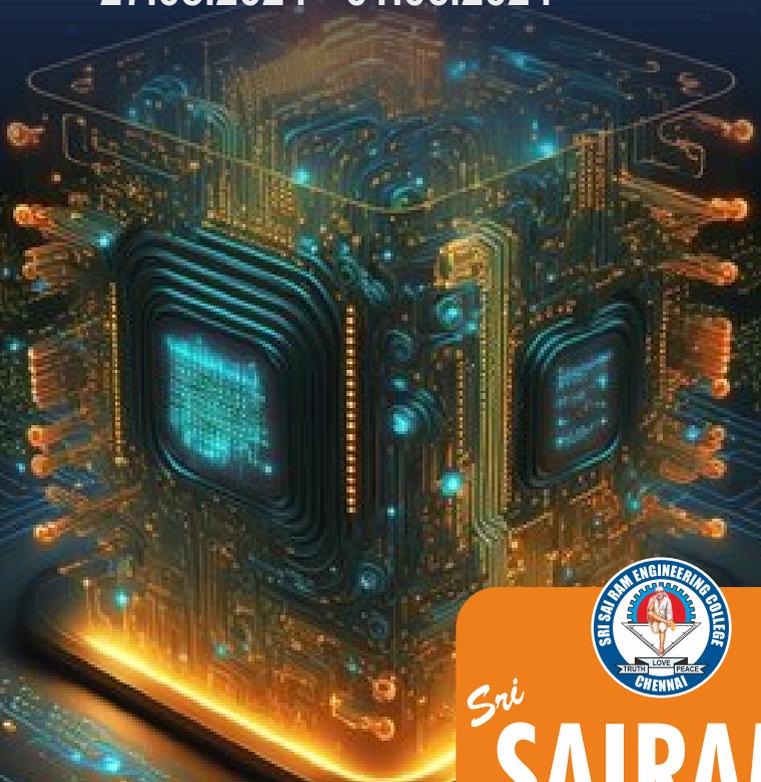ISTE

IEEE Computational Intelligence Society

IEEE CTSoc
CONSUMER TECHNOLOGY SOCIETY

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

ISTE SPONSORED

6 DAYS VIRTUAL

FACULTY DEVELOPMENT PROGRAM ON

QUANTUM COMPUTING

27.05.2024 - 01.06.2024

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NAAC

Sri
SAIRAM
ENGINEERING COLLEGE
An Autonomous Institution
West Tambaram, Chennai - 44
www.sairam.edu.in

ABOUT THE INSTITUTION

Sri Sai Ram Engineering College (Autonomous),Chennai-44, Tamil Nadu, India established in the year 1995 by MJF. Ln. Leo Muthu, the Founder Chairman of the Sapthagiri Educational Trust, is a non-profitable and a non-minority institution. The Institution is approved by the All India Council for Technical Education (AICTE), New Delhi and is affiliated to Anna University, Chennai. Today, the Institution has developed into a reputed and top-notch Engineering Institution with ISO 9001:2015 Certification, NBAAccreditation to all eligible disciplines of Engineering, Management and Accreditation by NAAC in A+ with 3.37 CGPA for 5 years,BIS certified & QS-I-Gauge - Diamond rated Institution. Recognized by SIRO and Band-ATop 25 category in Atal Ranking of Institutions on Innovation Achievements (ARIIA, MHRD, Government of India). Fourteen Programs are offered at the UG (B.E. / B. Tech) level & Eight Programs are offered at the PG level. The institution is recognized by AICTE to establish AICTE IIPC, AICTE EDC, AICTE Idea Lab and MoE's IIC based on strong industry alliance, research culture and activities of Sairam Innovation Eco System. The institution created significant partnerships and associations with NITTTR, VIRTUSA, COINDIA, Defence Innovation & Atal Incubation centre, Ministry of Defence, TIEMA and IBM to name a few. The departments of Mechanical Engineering and Allied, EEE and CSE & IT have bagged the prestigious "AICTE CII Survey - The Best Industry Linked Institution Award" at New Delhi in the respective years 2020, 2018 & 2017

ABOUT THE DEPARTMENT

The Department of Artificial Intelligence and Data Science, one of the emerging areas out of 10 special categories identified by AICTE and MHRD which can meet the upcoming requirements of Industrial Revolution, joined the fleet of Sri Sai Ram Engineering College during the academic year 2020-2021. The success of future professionals in technology, business, and research careers depends heavily on mastering Artificial Intelligence, Data Science and emerging technologies of tomorrow.

VISION : To emerge as a "Centre of Excellence in the field of Artificial Intelligence and Data Science", The Department is committed to inculcate discipline, offering best Technical Education and Research Opportunities and ethically strong to meet the global challenges, who in turn shall contribute to the advancement and welfare of the society.

MISSION:
➢ To produce students with a sound understanding of the fundamentals of the theory and practice of Artificial Intelligence, Machine Learning and Data Science.
➢ To enable students to become leaders in the Industry and Academia Nationally as well as Internationally.
➢ To meet the pressing demands of the nation in the areas of Artificial Intelligence and Data Science.

ABOUT THE PROGRAMME

Quantum computing is an emerging field that utilizes the principles of quantum mechanics to revolutionize information processing. At its core, the introduction to quantum computing reveals how quantum bits, or qubits, leverage superposition and entanglement to perform computations far more efficiently than classical bits. Quantum cryptography builds on this foundation, employing quantum principles to create secure communication methods that are theoretically unbreakable. Meanwhile, quantum machine learning explores how quantum algorithms can dramatically enhance data processing and pattern recognition, pushing the boundaries of artificial intelligence. The study of quantum algorithms and computing focuses on developing new computational methods that can solve complex problems more efficiently than classical algorithms. Together, these areas highlight the transformative potential of quantum computing in various fields, from cryptography to machine learning, promising unprecedented advancements in technology.

Registration Link : **https://forms.gle/keiCUJsH9N2dQyNCA**

Whatsapp Link : https://chat.whatsapp.com/FqtibWHuVHQ6ScZNUSHZR3

Sri SAIRAM ENGINEERING COLLEGE

West Tambaram, Chennai - 600 044. www.sairam.edu.in

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QUANTUM COMPUTING

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Honorable Speakers

Dr. K. Porkumaran
Principal, Sri Sairam Engineering College

Mr. J. Blesso Abraham
IBM Qiskit Advocate

Topic : **Introduction to Quantum Computing**

Mr. U Jayachandiran
Assistant Professor, Dept of AI - DS
Sri Sairam Engineering College

Topic : **Quantum algorithms and computing**

Dr. R Deepalakshmi
Professor and Head of Computing Departments
(CSE&AI-DS), CARE College of Engineering

Topic : **Quantum Error Correction**

Mr. Karthiganesh Durai
Founder & CEO,
Kwantum G Research Lab Pvt. Ltd.

Topic : **Quantum Machine Learning**

Ms. Kalpana B N
Assistant Professor
St. Joseph's Institute of Technology

Topic : **Post-Quantum Cryptography**

Mr. V. Karthick
Associate Professor, Dept. of Computer Science,
Rajalakshmi Engineering College

Topic : **Exploring the Intersection of Quantum Computing in Academia and Industrial Research**

Mr. Sundar Kanagaraj
Assistant Professor IT
SRM Easwari Engineering College

Topic : **Quantum Key Distribution**

Dr. Ramanathan G
Professor, Department of Physics
Sri Sairam Engineering College

Topic : **Quantum Computing in Quantum Gates**

Dr. Swagata Sarkar
Professor & Head, AI-DS
Sri Sairam Engineering College

Topic : **Overview of Quantum Hardware**

Dr. K. Velmurugan
Professor & Head, Dept. of Computer Science & Engg.
Anjalai Ammal Mahalingam Engineering college

Topic : **Quantum Network**

Ms. Tamizhmalar D
Co-ordinator

Dr. Swagata Sarkar
HOD/AI & DS

Dr. K. Porkumaran
Principal

Dr. Sai Prakash LeoMuthu
Chairman & CEO

MJF.LN. LEO MUTHU
Founder Chairman - Sairam Institutions

Sairam
INSTITUTIONS

Sri
SAIRAM
ENGINEERING COLLEGE
An Autonomous Institution
Affiliated to Anna University & Approved by AICTE, New Delhi

Accredited by **NBA** and **NAAC** *"A+"*
EOMS IS/ISO 21001:2018 Certified and **NIRF** ranked institution

Campus: Sai Leo Nagar, West Tambaram, Chennai - 600 044. **www.sairam.edu.in**

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www.sairamgroup.in

Sairam
RAISE

Inspiring
PEOPLE

Sairam
EOMS

Improving
PROCESS

Sairam
SDG ACTION PROGRAM

Instilling
PURPOSE

MJF-LN. LEO MUTHU
Founder Chairman - Sairam Institutions

We build a better nation through quality education.