

6 Days Online Faculty Development Programme on **CLOUD INTEGRATION AND EDGE COMPUTING FOR IoT**

22.12.2025 – 29.12.2025

Hosting on :  Google Meet



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

ABOUT THE INSTITUTION

Sri Sai Ram Engineering College, Chennai, established in the year 1995 by MJF.Ln.Leo Muthu, Chairman of Sapthagiri Educational Trust is a non-profitable and non-minority institution. A well defined vision, highly committed mission and dedicated leadership facilitate Sri Sai Ram Engineering College to be in the best of educational institutions in the country. Since its inception, our Institution has grown into a vast conglomerate of magnificent buildings, state-of-the art and sophisticated laboratories, internet centers, modern library and a superlative sports complex-each a landmark in itself across 300 acres. The College is an AUTONOMOUS Institution affiliated to Anna University and is also approved by the All India Council for Technical Education, New Delhi. Our Students are motivated to be technologically superior and ethically strong, who in turn shall contribute to the advancement of society and mankind, to build a better nation through quality education with team spirit. All the NBA eligible disciplines of Engineering and Management have been accredited by the National Board of Accreditation. Our college is certified with IS/ISO 21001:2018(EOMS) by the Bureau of Indian Standards, holds a NAAC A+ accreditation and earned a DIAMOND rating by QS I- GUAGE.

ABOUT THE DEPARTMENT

The B.E Computer Science and Engineering in Internet of Things (IoT) is an interdisciplinary programme that combines the study of Electronics Engineering and Computer Science, with an emphasis on Internet Technologies, Wireless Communications, Sensor devices, and Cloud computing. The main objective of this course is to give students the technical expertise they need to design and create interactive smart objects, including hardware, software and new smart prototypes for the Internet of Things.

The Department initiatives will definitely prepare students to understand the building blocks of IoT technology, explore the vast spectrum of IoT applications, connect the cyber world with the physical world of humans, automobiles and factories.

VISION

To develop technical professionals into entrepreneurs and IoT experts and to provide students with the skill sets and subject knowledge that they need to succeed in the Internet of Things world.

MISSION

The Department of Computer Science and Engineering (Internet of Things), Sri Sai Ram Engineering College is committed to:

- M1: To provide good infrastructure and teaching learning ambience
- M2: Connect geographically dispersed devices with a variety of capabilities.
- M3: Utilize Computers and peripherals to build IoT hardware.
- M4: Facilitate Industry Academia interface to update the recent trends in IoT

PROGRAM OVERVIEW

The Faculty Development Program (FDP) on “Cloud Integration and Edge Computing for IoT” delivers an in-depth understanding of how cloud services, edge computing, and IoT technologies can work together to achieve fast, efficient, and intelligent data processing for modern smart systems. The program explores major areas such as IoT–edge–fog–cloud architectures, real-time data analytics, IoT security mechanisms, testing methodologies, edge intelligence with cloud collaboration, AI-enabled automation, and scalable deployment strategies. By focusing on practical skill development, it enables faculty and professionals to create energy-efficient and federated solutions for various smart applications. Ultimately, this FDP equips participants to design secure, innovative, and scalable IoT ecosystems for next-generation technological solutions.

OBJECTIVES

- To provide a strong understanding of cloud, edge, and IoT integration for efficient data processing in smart environments.
- To enable learners to handle real-time IoT data using advanced analytics and optimization techniques.
- To enhance knowledge of IoT security, privacy, and testing methodologies for reliable system development.
- To introduce edge intelligence, cloud collaboration, and AI-driven automation for building intelligent IoT solutions.
- To develop skills for designing scalable, interoperable, and energy-efficient IoT ecosystems suitable for next-generation applications.

TOPICS TO BE COVERED

- IoT, Edge and Cloud computing fundamentals and architectures
- Real-time IoT data processing, streaming, and analytics techniques
- Security, privacy, and testing methodologies in IoT systems
- Edge intelligence, distributed AI, and cloud collaboration strategies
- Scalable data storage, resource optimization, and interoperability in IoT ecosystems
- Practical sessions focusing on real-world IoT and cloud-edge integration concepts

TARGET AUDIENCE

- Faculty Members from Engineering, Computer Science, and related fields
- Research Scholars and Postgraduate Students
- Industry Professionals with an interest in IoT technologies

PROGRAM OUTCOMES

- Gain foundational knowledge of IoT, edge, and cloud computing architectures for designing connected smart systems.
- Apply real-time data streaming and analytics techniques to derive insights and improve IoT system performance.
- Implement robust security, privacy, and testing practices to enhance trust and reliability in IoT environments.
- Design scalable and interoperable IoT solutions using distributed intelligence and resource-optimized architectures.

ELIGIBILITY

Faculty members and research scholars from AICTE-approved institutions are eligible to apply. Participants will be selected on a "first-come, first-served" basis. Confirmation of selection will be communicated via email, and selected participants must confirm their attendance.

REGISTRATION DETAILS

- Last date of Registration: **20.12.2025**
- No Registration fee
- 80% attendance is mandatory.
- Participants scoring at least 60% in the assessment will receive an E-Certificate.

REGISTRATION LINK :

<https://tinyurl.com/FDP-IOT-DEC2025>



Honourable Speakers



Ms. PADMAVATHY KARUVADI

AI Engineer, Ciklum, Chennai

Title: Security Challenges in Cloud IoT Systems



Dr. M. KANTHIMATHI

Professor & Head CSE(Internet of Things)
Sri Sai Ram Engineering College

Title: Cloud and Edge Computing Frameworks for Smart IoT Applications



Ms. VAISHNAVI DHINESH

Founder @ Towards Technology, Ariyalur.

Title: Edge Intelligence and Cloud Synergy: Enabling Next-Generation AI & ML in IoT Ecosystems



Dr. VINOTH R,

Assistant Professor, Dept of CSE(AIML),
SRM Institute of Science and Technology, Chennai.

Title: Microtubules in Cloud Storage Integration with IoT Devices



Mr. DINESH PARANTHAGAN

CEO & Founder of Hackup Technology
Cyber Security Expert, Coimbatore

Title: Evolving Cyber Threat landscape in Modern Industries



Mr. CHRISTOPHER JEBERSON BASKARAN

Founder & CEO, Olir Solutions,
AI & DPDP Consultant, Chennai

Title: AI and Machine Learning on Edge Devices



Ms. SIVARANJANI SUBRAMANIAN

Chief Operating Officer, Environmental Management Centre Pvt Ltd
Vice President, Ekonnnect Knowledge Foundation

Title: IoT Enabled Sustainability Interventions



Dr. DHANALAKSHMI R

Professor, VIT Chennai.

Title: Zero -Trust Security in Cloud - Edge computing



Mr. SUBRAMANIAN SAI MANJUNATH

Software Engineer, CISCO.

Title: Security Threats and Defenses in Industrial IoT

Imagine the Future and Make it happen!



Together let's build a better world where there is **NO POVERTY** and **ZERO HUNGER**.
We have **GOOD HEALTH AND WELL BEING** **QUALITY EDUCATION** and full **GENDER EQUALITY** everywhere.
There is **CLEAN WATER AND SANITATION** for everyone. **AFFORDABLE AND CLEAN ENERGY**
which will help to create **DECENT WORK AND ECONOMIC GROWTH**. Our prosperity shall be fuelled
by investments in **INDUSTRY, INNOVATION AND INFRASTRUCTURE** that will help us to
REDUCE INEQUALITIES by all means. We will live in **SUSTAINABLE CITIES AND COMMUNITIES**.
RESPONSIBLE CONSUMPTION AND PRODUCTION will help in healing our planet.
CLIMATE ACTION will reduce global warming and we will have abundant,
flourishing **LIFE BELOW WATER**, rich and diverse **LIFE ON LAND**.
We will enjoy **PEACE AND JUSTICE** through **STRONG INSTITUTIONS**
and will build long term **PARTNERSHIPS FOR THE GOALS**.



For the goals to be reached,
everyone needs to do their part:
governments, the private sector,
civil society and **People like you**.

Together we can...

Sai Prakash Leo Muttu

Chairman & CEO - Sairam Institutions

ORGANISING COMMITTEE



Chief Patron

Dr. Sai Prakash LeoMuthu
Chairman & CEO

Patrons

Dr. J. Raja
Principal

Convenor

Dr. M. Kanthimathi
HOD / CSE (IoT)

Co-ordinators

Dr S Bairavel,
Professor/CSE(IoT)

Ms.G Keerthana,
Assistant Professor/CSE(IoT)

Address for Communication

Dr. S. BAIRAVEL

Professor

Department of Computer Science and Engineering (IoT)
Sri Sai Ram Engineering College

Sai Leo Nagar, West Tambaram, Chennai - 600 044

Phone No: 9442029906 | Email: bairavel.ci@sairam.edu.in

Ms. G. KEERTHANA

Assistant Professor

Department of Computer Science and Engineering (IoT)
Sri Sai Ram Engineering College

Sai Leo Nagar, West Tambaram, Chennai - 600 044

Phone No: 9080583719 | Email: keerthana.ci@sairam.edu.in



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