



6 DAYS ONLINE FDP ON

AI - POWERED EDGE COMPUTING FOR IoT APPLICATIONS

23.06.2025 – 28.06.2025



Sri

SAIRAM
ENGINEERING COLLEGE

An Autonomous Institution

West Tambaram, Chennai - 44

www.sairam.edu.in



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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 a non-minority institution. A well-defined vision, highly committed mission and a dedicated leadership facilitate Sri Sairam Engineering College to be in the best of educational institutions in the country. Since its inception, the institution has grown into a vast conglomerate of magnificent buildings, state-of-the art laboratories, sophisticated internet centres, modern digital library block and a superlative sports complex, each a landmark in itself across 300 acres. The institution is situated in a sprawling campus with architecturally and aesthetically designed buildings, blocks, stadiums, auditoriums, hostels, gymnasium and the sports grounds. The institution is affiliated to Anna University and approved by the All India Council for Technical Education (AICTE), New Delhi.

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

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

ABOUT THE PROGRAMME

Program Overview

The rapid convergence of Artificial Intelligence (AI), Edge Computing, and the Internet of Things (IoT) is revolutionizing the way data is processed, analyzed, and acted upon in real time. This FDP is designed to equip faculty members, researchers, and industry professionals with the theoretical foundations and practical insights necessary to integrate AI at the edge of IoT networks. The program will explore the architectures, algorithms, tools, and platforms that enable efficient and intelligent processing closer to the data source, minimizing latency, enhancing privacy, and improving decision-making capabilities.

Program Objectives

- To provide a comprehensive understanding of AI-enabled Edge computing architectures and their applications.
- To explore IoT Architecture and Programming techniques for Data Science applications.
- To equip participants with knowledge of tools and frameworks for building scalable Edge AI solutions.
- To enable participants to design and deploy next-generation AIoT systems using Cloud-Edge platforms and analytics tools.

Key Topics Covered

- AI - Enabled Edge Computing: Architectures and Applications
- Leveraging IoT Architecture and Programming for Data Science Applications
- Edge AI for Real - Time Health Monitoring and Predictive Diagnostics in IoT - Enabled HealthCare
- Tools and Framework for Developing Scalable Edge AI Solutions in IoT Applications
- Cloud and Edge Integration for IoT
- Data Management and Analytics in IoT Systems

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

- Design and deploy lightweight AI models on edge devices to enable real-time IoT Analytics
- Ability to address and teach real-world IoT challenges
- Proficiency in using IoT development platforms and tools
- Collaborative Research initiatives in emerging IoT areas

HONOURABLE SPEAKERS



Mr. P. THULASIRAMAN

Former Director of Wefivesoft Pvt Ltd and
Advisor of Sri MatImaging Technologies
AI Prompt Engineering



Dr. M. KANTHIMATHI

Professor
Sri Sairam Engineering College
IoT Device Management and Data Analytics



Dr. PRANITHA KARTHIKEYAN

Proprietor
Sri MatImaging Technologies
Core Technology of Image/Video Processing



Dr. P. SATHYARAJ

Associate Professor
Sri Sairam Engineering College
Leveraging IoT Architecture and Programming
for Data Science Applications



Dr. J. OMANA

Asst. Professor, Senior Grade I
School of CSE, VIT University
Edge AI for Real - Time Health Monitoring and
Predictive Diagnostics in IoT - Enabled Health Care



Dr. M. KRISHNAMURTHY

Professor & Head - CSE
KCG College of Technology
AI - Enabled Edge Computing:
Architectures and Applications



Mr. RAKHUL KUMAR

Doctoral Candidate and
Graduate Research Assistant,
Kansas State University, USA
Tools and Framework for Developing
Scalable Edge AI Solutions in IoT Applications



Ms. M. PIRAMU

Asst. Professor
CSE(Internet of Things)
Sri Sai Ram Engineering College
Edge vs. Cloud Computing:
Use Cases and Challenges



Dr. A. V. KALPANA

Associate Professor
SRM Institute of Science and Technology,
Kattankalathur
Data Management and Analytics in IoT

ONE DAY INDUSTRIAL VISIT
IITM PRAVARTAK TECHNOLOGIES,
IITM RESEARCH PARK, TARAMANI, CHENNAI.

REGISTRATION DETAILS

Last date of Registration : 22.06.2025

- No Registration fee
- 80% Attendance is mandatory
- Participants scoring at least 60% in the assessment will receive an E-Certificate

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.



ORGANISING COMMITTEE

Chief Patron

Dr. Sai Prakash LeoMuthu
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Dr. J. Raja
Principal

Convenor

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Head of the Department
CSE (IoT)

Coordinators

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Assistant Professor, CSE(IoT)

Ms. M. Piramu
Assistant Professor/CSE(IoT)

Address for Communication

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Registration Link :



<https://tinyurl.com/FDP-IOT-2025>

