

# IEEE BOOTCAMP



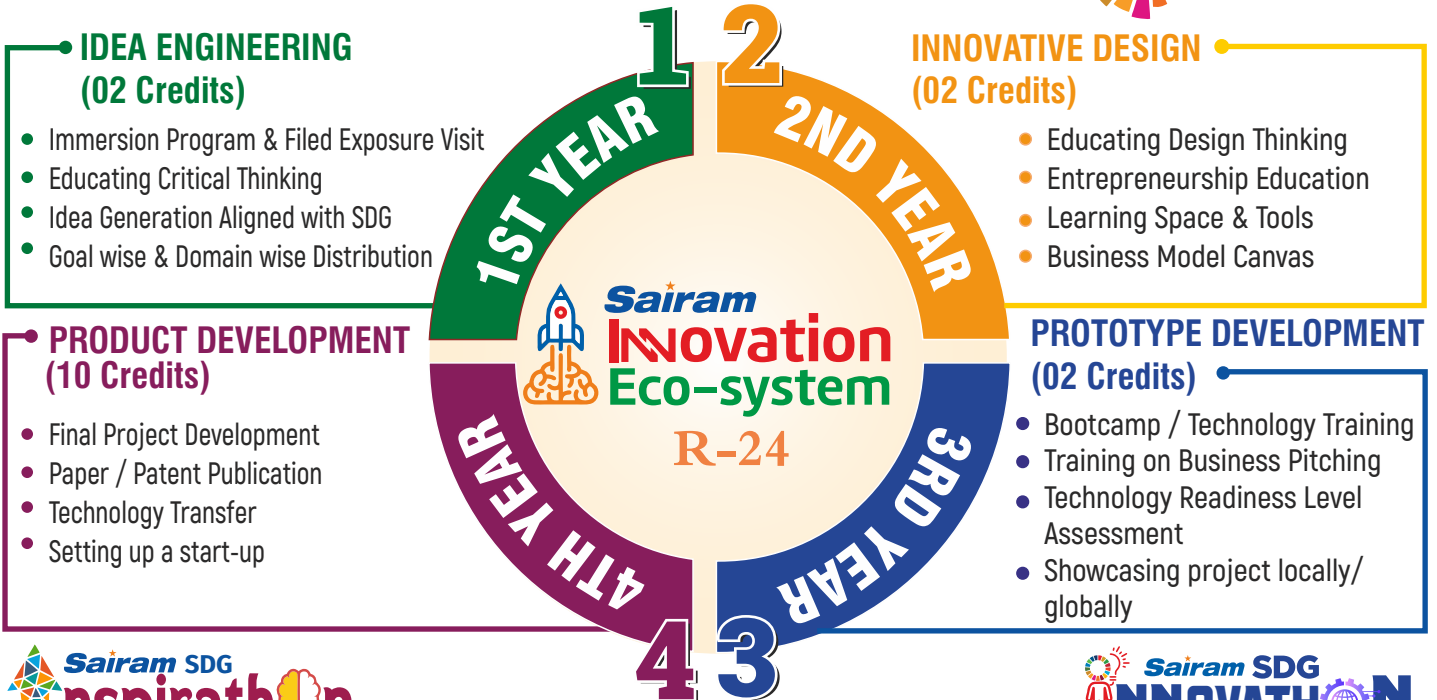
Sri

**SAI RAM**  
ENGINEERING COLLEGE  
INSTITUTE OF TECHNOLOGY

Autonomous Institutions  
West Tambaram, Chennai - 44

# VISION ON INNOVATION AND ENTREPRENEURSHIP

The idea of imparting awareness on the necessity to bring in indigenous innovations has always been there and Sairam group of institutions encourages its students to become passion preneurs and techpreneurs. As quoted by the Hon'ble Prime Minister of India, Shri Narendra Modi, "I See Start-Ups, Technology and Innovation as exciting and Effective Instrument for India's Transformation", Sairam group of institutions has always been keen to bring out well qualified and young entrepreneurs for the betterment of the society.



AN INITIATIVE BY AN ENGINEERING AND TECHNOLOGY INSTITUTION  
TO GENERATE MASS ENTREPRENEURSHIP

*Education is the manifestation of the  
perfection already in man*



புயன்றால் புறயாதது  
எதுவும் இல்லை.

என் யுடீன்...  
வி. சுவாமிநாதன்

**M.J.F. LN. LEO MUTHU**

FOUNDER CHAIRMAN - SAIRAM INSTITUTIONS

**Sairam**  
INSTITUTIONS



# BOOTCAMP ON BUILDING YOUR OWN AR/VR EXPERIENCES

SEC202503IEEEITS01 & SIT202503EIT01

**TWO DAYS  
BOOT CAMP ON  
BUILD YOUR OWN  
AR/VR EXPERIENCES**

12.03.2025 (Beta Hall) | 13.03.2025 (Alpha Hall)

**Resource Person**  
**Mr. LELIN S**  
R & D Engineer,  
Sairam Techno Incubator

**Event Co-ordinators:**  
Ms. K. SUBHASHINI (Executive, IEEE-ITS) & Ms. L. THANGAPALANI (Organizer, IEEE-ITS)

**Scope Members:**  
Ms. D. KAVITHA (Captain, IEEE-ITS) & Dr. R. SAMPATH (Strategist, IEEE-ITS)

**Dr. C. R. Rene Robin** (Convener & Dean - Innovation)  
**Dr. K. Palanikumar** (Principal - SIT)  
**Dr. J. Raja** (Principal - SEC)  
**Dr. Sai Prakash LeoMuthu** (Chairman & CEO, Sairam Institutions)

To introduce students and enthusiasts to the fundamentals of Augmented Reality (AR) and Virtual Reality (VR) technologies and equip them with hands-on experience to design and develop their own immersive applications.

Event Coordinator	:	<b>Ms. D. Kavitha &amp; Dr. R. Sampath</b>
Domain of the Bootcamp	:	DATA SCIENCE
Speaker Name	:	Mr. Lelin S
Date of the Bootcamp	:	12/03/2025 & 13/03/2025
Venue	:	Alpha Hall and Beta Hall
Number of Participants	:	70
Collaborating Partners	:	IEEE Information Theory Society

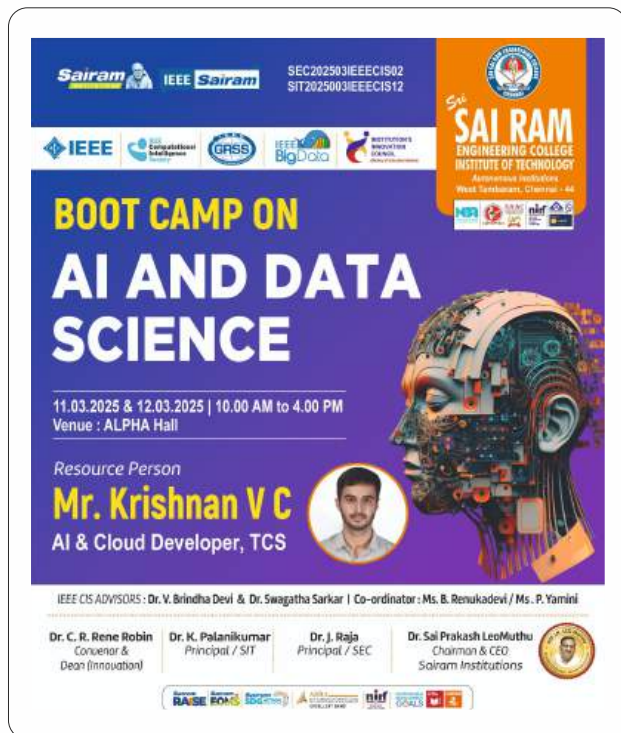
# TWO DAYS BOOTCAMP ON MICRO MINDS, MEGA IMPACT : ADVANCED EMBEDDED SYSTEM UNLEASHED



This initiative explores the design, development, and deployment of intelligent embedded solutions that integrate hardware efficiency with cutting-edge software capabilities. From IoT devices and smart automation to AI-powered controllers, it showcases how small-scale systems can create large-scale societal and industrial impact. By unleashing the potential of these micro marvels, we aim to inspire breakthroughs in efficiency, connectivity, and sustainability.

- |                        |   |   |
|------------------------|---|---|
| Event Coordinator      | : | <b>CHITHRA V</b>                                  |
| Domain of the Bootcamp | : | EMBEDDED SYSTEMS                                  |
| Speaker Name           | : | YUVARAJ V   |
| Date of the Bootcamp   | : | 29/04/2025 & 30/04/2025                           |
| Venue                  | : | ASmart CLASS ROOM 1                               |
| Number of Participants | : | 97  |
| Collaborating Partners | : | IEEE DIELECTRIC AND ELECTRICAL INSULATION SOCIETY |

# BOOTCAMP ON AI AND DATA SCIENCE



We conducted a Boot Camp on "AI and Data Science" on 11/3/2025 & 12/3/2025 in Alpha Hall from 9.30 a.m to 4.00 p.m in association with Sairam Innovation Eco - System (Innovathon 3.0) for the 3rd year students (2026 batch) who have enrolled for Live in Lab projects under the AI and Data Science Domain, Total of 43 Batches. Around 90 students attended the training.

Event Coordinator	:	<b>Dr. V. Brindha Devi &amp; B.Renukadevi</b>
Domain of the Bootcamp	:	AI and Data Science
Speaker Name	:	V.C.Krishnan
Date of the Bootcamp	:	11/03/2025 & 12/03/2025
Venue	:	Alpha Hall
Number of Participants	:	90
Collaborating Partners	:	IEEE CIS, IEEE GRSS and IEEE Big Data Community

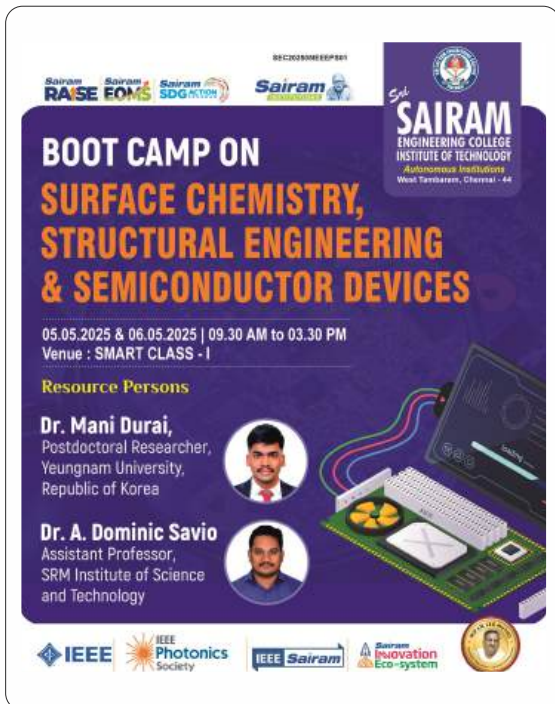
# BOOTCAMP SERIES ON BLOCK CHAIN



Empower participants with Block chain knowledge and skills for innovation and disruption and equip participants with comprehensive understanding and practical skills in Block chain technology for transformative innovation and disruption.

Event Coordinator	:	<b>Dr. K. MURUGAN</b>
Domain of the Bootcamp	:	Block Chain
Speaker Name	:	Mr. Brahma Rishi
Date of the Bootcamp	:	07/04/2025 & 08/04/2025
Venue	:	SMART CLASS 1
Number of Participants	:	70
Collaborating Partners	:	IEEE - TEMS

# BOOTCAMP ON SURFACE CHEMISTRY, STRUCTURAL ENGINEERING & SEMICONDUCTOR DEVICES



This session is designed to provide students with a comprehensive understanding of topics related to Surface Chemistry, Structural Engineering, and Semiconductor Devices, with the objective of enhancing their conceptual clarity, improving their ability to achieve clear outcomes in their final projects, and resolving any subject-related doubts.

Event Coordinator	:	<b>Dr. R. Premanand</b>
Domain of the Bootcamp	:	Photonics
Speaker Name	:	Dr. Mani Dura
Date of the Bootcamp	:	5/5/2025
Venue	:	Smart Class Room
Number of Participants	:	28
Collaborating Partners	:	IEEE Photonics Society

# TWO DAYS BOOTCAMP ON AUTOMATION



This session offers a foundational understanding of Industrial Automation, covering essential topics such as the basics of automation systems, an introduction to Programmable Logic Controllers (PLCs), and an overview of automation workflows and key components. Participants will also gain practical insights through live demonstrations using simulation tools and explore various career opportunities in the growing field of automation.

Event Coordinator	:	<b>Dr.R.Lavanya &amp; Dr.I.Vimal Kannan</b>
Domain of the Bootcamp	:	IEEE-PSES
Speaker Name	:	Ms.Revathi Gopalan
Date of the Bootcamp	:	05/05/2025 & 06/05/2025
Venue	:	VRR Hall
Number of Participants	:	80
Collaborating Partners	:	IEEE PSES

# TWO DAYS BOOTCAMP ON BUILDING MODELS USING GEN AI



Gen-AI bootcamp conducted on april 3rd and 4th April -2025-Mr.Eneeyan had given a hands on session for gen AI tools

Event Coordinator	:	<b>Ms.C.ESTHER</b>
Domain of the Bootcamp	:	ARTIFICIAL INTELLIGENCE
Speaker Name	:	Mr.Eneeyan Nanmaran
Date of the Bootcamp	:	03/04/2025 & 04/04/2025
Venue	:	SRR Hall
Number of Participants	:	120
Collaborating Partners	:	IEEE CTSoc

# TWO DAYS BOOTCAMP ON MACHINE LEARNING



The primary aim of this Bootcamp was to introduce participants to the concept of Machine learning and familiarize them with its implementation in real time projects.. This Bootcamp aimed to enhance the knowledge of student members doing projects in Machine Learning and equip them with practical skills for real-world applications. By the end of the session, attendees were expected to have a clear understanding of machine learning techniques and gained insights to improve their project.



- Event Coordinator : **S.Surya, B Rajalakshmi**
- Domain of the Bootcamp : Machine learning
- Speaker Name : Mr Deepan Raj, Mr Jaiganesh Duresh
- Date of the Bootcamp : 14/03/2025 & 15/03/2025
- Venue : Smart Classroom1
- Number of Participants : 40
- Collaborating Partners : IEEE EMBS

# BOOTCAMP ON AI BASED PLANT DISEASE PREDICTION



This session aims to provide valuable insights into advanced deep learning techniques applied in digital image processing, with a special focus on their use in agricultural disease prediction. Participants will gain an understanding of how AI-driven approaches are transforming crop health monitoring and contributing to smarter, data-driven agricultural practices.



Event Coordinator	:	<b>Mr. Sivasakthi T</b>
Domain of the Bootcamp	:	Signal Processing
Speaker Name	:	Dr. V.R. Vijaykumar
Date of the Bootcamp	:	09/04/2025
Venue	:	Beta Hall
Number of Participants	:	120
Collaborating Partners	:	IEEE SPS

# TWO DAYS BOOTCAMP ON INDUSTRIAL ROBOTICS AND IOT



The IEEE RAS Student Branch Chapter has successfully launched its Robotics and Automation Bootcamp, marking the beginning of an exciting learning journey. The bootcamp aims to equip students with practical skills, encourage collaboration, and spark curiosity in emerging technologies. With energetic participation, Day 1 set a strong foundation, while Day 2 continues with high enthusiasm as students dive deeper into hands-on sessions and interactive learning experiences.

Event Coordinator	:	<b>Dr. R. Bhoopthi</b>
Domain of the Bootcamp	:	Robotics and IOT
Speaker Name	:	Mr Dinesh Kumar Manikkam
Date of the Bootcamp	:	30/04/2024 & 02/05/2024
Venue	:	Gamma Hall
Number of Participants	:	125
Collaborating Partners	:	IEEE Robotics and automation Society

# TWO DAYS BOOTCAMP ON ANTENNAS & RF



This boot camp will provide in-depth technical insights, hands-on training, and expert guidance on antennas and RF systems, helping you strengthen your expertise in this domain.

Event Coordinator	:	<b>Rathnavel P &amp; Jayachandran U</b>
Domain of the Bootcamp	:	Antennas and RF
Speaker Name	:	Mr.S. Venkatraman
Date of the Bootcamp	:	05/03/2025 & 06/03/2025
Venue	:	Optical Lab, ECE Dept., SEC
Number of Participants	:	48
Collaborating Partners	:	IEEE APS

# TWO DAYS BOOTCAMP ON APP DEVELOPMENT



The two-day Boot Camp on App Development aimed to equip students with foundational and advanced skills in mobile app development. Led by Mr. P.V. Suganth, a software engineer and founder of Revamp Academy, the sessions offered hands-on learning, coding exercises, and real-world application development insights. The event focused on enhancing technical competency among engineering students, fostering innovation, and building apps with a user-centric approach aligned with current industry standards. The bootcamp also aligned with the institution's ongoing efforts to promote technical skill development and support the Sustainable Development Goals (SDGs).

Event Coordinator	:	<b>Dr. Soma Prathibha</b>
Domain of the Bootcamp	:	Mobile Application Development / Software Engineering
Speaker Name	:	Mr. P.V. Suganth
Date of the Bootcamp	:	12.03.2025 & 13.03.2025
Venue	:	Gamma Hall
Number of Participants	:	90
Collaborating Partners	:	IEEE Computer Society

# TWO DAYS BOOTCAMP ON MACHINE LEARNING



The Two-Day Boot Camp on Machine Learning provided students with a comprehensive introduction to core machine learning concepts, tools, and workflows. Delivered by Mr. Gowtham Swaminathan, an experienced MLOps Engineer at NielsenIQ, the bootcamp focused on real-time industry applications, model training, deployment strategies, and machine learning pipelines. Through interactive sessions and practical demonstrations, participants explored the transformative potential of ML across domains. This bootcamp aligned with the institution's innovation-driven educational initiatives and IEEE's global Education Week, contributing towards upskilling students for future-ready careers in data and AI technologies.

Event Coordinator	:	<b>Dr Pown M</b>
Domain of the Bootcamp	:	Artificial Intelligence / Machine Learning / Data Science
Speaker Name	:	Mr. Gowtham Swaminathan
Date of the Bootcamp	:	11.04.2025 & 12.04.2025
Venue	:	Mini Auditorium
Number of Participants	:	90
Collaborating Partners	:	IEEE Solid-State Circuits Society (SSCS)

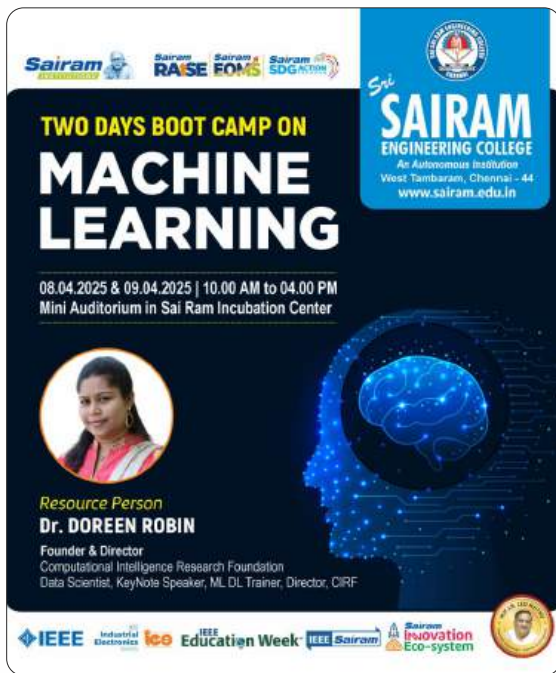
# TWO DAYS BOOTCAMP ON INTERNET OF THINGS (IOT)



The Two-Day Boot Camp on Internet of Things (IoT) offered a comprehensive and hands-on exploration into the world of smart, connected systems. Led by Mrs. C. Anitha and Mrs. A. Sathisha, Embedded Developers from Wiztech Automation Solutions, the sessions focused on enabling students to work with embedded hardware, wireless communication, and IoT platforms. This bootcamp provided valuable exposure to the design and implementation of IoT-enabled devices, their real-world applications, and industrial use cases.

Event Coordinator	:	<b>Dr Mani M</b>
Domain of the Bootcamp	:	Embedded Systems / IoT / Automation Technologies
Speaker Name	:	Mrs. C. Anitha & Mrs. A. Sathisha
Date of the Bootcamp	:	05.05.2025 & 06.05.2025
Venue	:	Gamma Hall
Number of Participants	:	90
Collaborating Partners	:	IEEE Instrumentation & Measurement Society & IEEE Internet of Things Society

# TWO DAYS BOOTCAMP ON MACHINE LEARNING



Students were trained on Machine Learning concepts, algorithms, and practical applications, enabling them to build intelligent models and solve real-world problems using data-driven approaches

Event Coordinator	:	<b>Dr.R. Ashok Gandhi</b>
Domain of the Bootcamp	:	Artificial intelligence
Speaker Name	:	Dr.Doreen Robin
Date of the Bootcamp	:	08.04.2025 & 09.04.2025
Venue	:	Incubation auditorium
Number of Participants	:	90
Collaborating Partners	:	IEEE Industrial Electronics Society

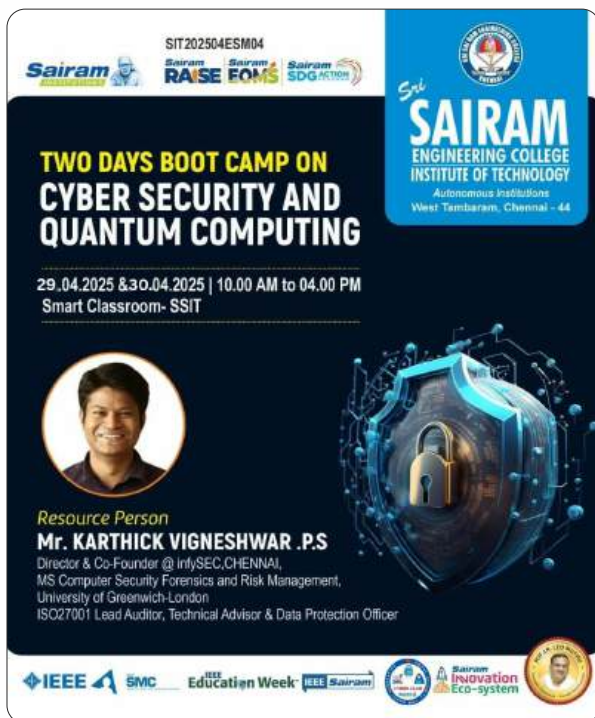
# TWO DAYS BOOTCAMP ON INTERNET OF THINGS (IoT)



The Two Days Boot Camp on Internet of Things (IoT) aimed to provide students with hands-on experience and practical insights into IoT concepts, applications, and emerging technologies. The sessions covered IoT architecture, device connectivity, data communication, and real-world case studies. Participants gained exposure to industry practices and project development methodologies through interactive discussions and live demonstrations led by Mr. S. Selvaradji, Managing Director of Nirloba Private Limited, Chennai. The bootcamp encouraged innovation and enhanced participants' understanding of smart systems, automation, and IoT-driven solutions.

Event Coordinator	:	<b>Dr. K. Ranganathan</b>
Domain of the Bootcamp	:	Internet of Things (IoT) / Embedded Systems
Speaker Name	:	Mr. S. Selvaradji
Date of the Bootcamp	:	03.04.2025 & 04.04.2025
Venue	:	Smart Class Room – SIT
Number of Participants	:	90
Collaborating Partners	:	IEEE VTS

# TWO DAYS BOOTCAMP ON CYBER SECURITY AND QUANTUM COMPUTING



The Two Days Boot Camp on Cyber Security and Quantum Computing aimed to equip students with a comprehensive understanding of emerging technologies that safeguard digital systems and revolutionize computational models. The sessions, conducted by Mr. Karthick Vigneshwar P.S, focused on cyber threat detection, data protection, cryptographic principles, and the future impact of quantum computing on security frameworks.

Event Coordinator	:	<b>Dr. P. Rayavel &amp; Dr. M. Nithya</b>
Domain of the Bootcamp	:	Cyber Security and Quantum Computing
Speaker Name	:	Mr. Karthick Vigneshwar P.S
Date of the Bootcamp	:	29.04.2025 & 30.04.2025
Venue	:	Smart Classroom – SSIT
Number of Participants	:	95
Collaborating Partners	:	IEEE SMC

# TWO DAYS BOOTCAMP ON RENEWABLE ENERGY



The Two Days Boot Camp on Renewable Energy was organized to provide students with deep insights into sustainable and eco-friendly energy solutions. The session, led by Dr. R. Varalakshmi, focused on the importance of renewable energy in addressing global energy challenges and promoting sustainability.

Participants explored topics such as solar, wind, and bio-energy technologies, energy storage solutions, and smart grid systems. The boot camp highlighted the integration of renewable energy sources into real-world applications and emphasized research and innovation in the field.

Event Coordinator	:	<b>Dr. R. Azhagumurugan &amp; Dr. Y. Sherlin Nisha</b>
Domain of the Bootcamp	:	Renewable Energy / Sustainable Technologies
Speaker Name	:	Dr. R. Varalakshmi
Date of the Bootcamp	:	13.03.2025 & 14.03.2025
Venue	:	Beta Hall
Number of Participants	:	95
Collaborating Partners	:	IEEE Power & Energy Society (PES)

# TWO DAYS BOOTCAMP ON NEURAL NETWORKS AND WEB DEVELOPMENT



Participants explored the core principles of deep learning, algorithm design, and frameworks used in developing intelligent web-based systems. The program also emphasized hands-on exposure to real-time projects, equipping students with both coding proficiency and AI implementation skills. The bootcamp empowered attendees to understand the synergy between AI and web technologies, fostering innovation and preparing them for advanced research and industry applications in emerging tech domains.

Event Coordinator	: <b>Dr. S. Sankari</b>
Domain of the Bootcamp	: Artificial Intelligence, Neural Networks, and Web Development
Speaker Name	: Mr. Balaji Rajendran
Date of the Bootcamp	: 09.04.2025 & 11.04.2025
Venue	: Smart Classroom – SIT
Number of Participants	: 86
Collaborating Partners	: IEEE Education Society

# BOOTCAMP ON IMAGE PROCESSING



The program empowered students to apply image processing concepts in domains such as artificial intelligence, robotics, and medical imaging. It fostered innovation, technical competence, and research orientation among participants, aligning with the institution's goal of nurturing technological excellence and creativity.

- Event Coordinator : **Dr. S. Subha & Ms. G. Devi**
- Domain of the Bootcamp : Image Processing / Artificial Intelligence / Computer Vision
- Speaker Name : Dr. Pranitha Karthikeyan, Post Doctorate at IITM Research Park  
Proprietor, SRI MATIMAGING TECHNOLOGIES
- Date of the Bootcamp : 20.02.2025 & 21.02.2025
- Venue : Smart Classroom – 1
- Number of Participants : 85
- Collaborating Partners : IEEE Control Systems Society (CSS)

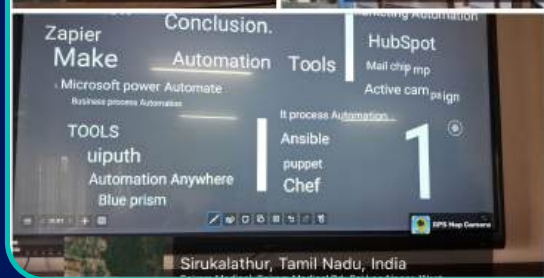
## TWO DAYS BOOT CAMP SERIES - III: CLOUD COMPUTING



The hands-on component enabled participants to explore cloud platforms and gain practical exposure to cloud-based tools used in the industry. Through interactive demonstrations and case studies, students learned how enterprises leverage cloud technology for scalability, cost efficiency, and innovation. This bootcamp helped students strengthen their technical knowledge and understand industry expectations, aligning with Sairam's vision to bridge the gap between academia and industry through experiential learning initiatives.

Event Coordinator	:	<b>Ms. Saswati Kumari Behera</b>
Domain of the Bootcamp	:	IEEE ComSoc
Speaker Name	:	Mr. Rakesh Kumar M
Date of the Bootcamp	:	05.03.2024 & 06.03.2024
Venue	:	Alpha Hall
Number of Participants	:	90
Collaborating Partners	:	IEEE Communication Society (ComSoc),

# Through the Lens



# Imagine the Future and Make it happen!



1 NO POVERTY



2 ZERO HUNGER



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



17 PARTNERSHIPS FOR THE GOALS



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 Muthu*

Chairman & CEO - Sairam Institutions



# VISION

## PEOPLE + PROCESS + PURPOSE = SUCCESS

At Sairam, we realize that the higher education sector is under significant pressure to adapt to the changing needs of the future. Institutions need to become more operationally efficient and effective, improve student outcomes, increase access to higher education, recruit and retain top faculty and researchers, and more.

Effective transformation in these areas requires an organization-wide strategic approach that seeks to improve and enhance organizational models, operating processes, technology, leadership, and talent models. We have adopted a 3Ps model of aligning People, Process and Purpose with the vision of the organization.



*Inspiring*  
PEOPLE

*Sairam*  
**RAISE**



*Improving*  
PROCESS

*Sairam*  
**EOMS**



*Instilling*  
PURPOSE

*Sairam*  
**SDG ACTION PROGRAM**

**Sairam**  
INSTITUTIONS



செய்வாள் செயற்கு  
எதுவும் இல்லை.

உனக்கிடம் - நிற்கிடம்  
எப்போதும் தேவை!

என் உட்கார்.  
M. சுவாமிநாதன்



**Sairam**  
**RAISE**  
Inspiring  
PEOPLE

**Sairam**  
**EOMS**  
Improving  
PROCESS

**Sairam**  
**SDG ACTION**  
PROGRAM  
Instilling  
PURPOSE

*Together we can...*