IEEE One Week Faculty Development Programme

On

Industry 5.0

Empowering Sustainable Goals

December 16 - 21, 2024

Organized by

IEEE Madras Section

IEEE Madras Section | IEEE STB05661 Student Branch - SAEC | IEEE

In association with

S.A. Engineering College (Autonomous)
Department of IT, CSE (AIML), IQAC & IEEE Students Branch - SAEC

S.A. Engineering College
(An Autonomous Institution, Affiliated to Anna University)
Accredited by NBA, NAAC with 'A' Grade & ISO 9001:2015 Certified Institution
POONAMALLEE – AVADI MAIN ROAD, THIRUVERKADU, CHENNAI – 600 077

ABOUT THE INSTITUTION

S. A. Engineering College was established by the Dharma Naidu Educational and Charitable Trust in the year 1998-99. The college is approved by AICTE and affiliated to Anna University, Chennai, Tamil Nadu. The college also acquired the Autonomous status in the year 2019-20. The college is well planned with 5 lakhs sq. ft of constructed area. The college maintains a high standard of Education by providing a world class academic facility, employing highly qualified and experienced faculty members and creating an ambience conducive for quality education. In recognition of quality policy being implemented by the institution, M/s TUV NORD has accorded ISO 9001:2015 certification. The college is accredited by NAAC with 'A' Grade and NBA, The college offers 11 UG Programmes and 6 PG Programmes. S.A. Engineering College is also conferred Autonomous status for over 10 years from 2019.

Accredited by NAAC with 'A' Grade and NBA

https://www.saec.ac.in/

ABOUT THE DEPARTMENT OF IT

The Department of Information Technology was started in the year 1998-99 with an intake of 40 students. In tune with the growing demand profile globally for IT, the intake level was enhanced to 60 in the year 2000 and then 120 in the year 2024. The Department is accredited by NBA for 3 years. IT has professional membership with various reputed societies like CSI, ACM, ISTE and IEEE. We have signed MOU's with various reputed industries and with that relationship we are organizing several Guest Lectures, Workshops, Skill Development Programs, Value Added courses and Industrial Visits. The Department has the state-of the art facilities for various labs with newly configured machines and Latest IBM Servers, well equipped Seminar halls with Smart board facility, Capacious classrooms to support e-learning and a Department library. with over 947 books.

ABOUT THE DEPARTMENT OF CSE (AIML)

The Department of CSE (Artificial Intelligence and Machine Learning) was started in the year 2022. The department has grown to its current strength of 116 students from a humble beginning with 56 students. Our department is equipped with the latest state of the art laboratories and is equipped with an excellent Internet facility. We have a dedicated team of faculty members who will always counsel and motivate the students to bring out their best performance. We encourage the students to join in various professional societies like IEEE and CSI to develop their technical expertise and also to organize several student conferences / symposia / seminars / workshops in various trending topics. To make students well prepared to face the industry, they were imparted the requisite training by utilizing the services of external academia and professional practitioners for contesting in competitions like TCS Code Vita, Smart India Hackathon etc.,

ABOUT SA ENGINEERING COLLEGE IEEE STUDENT BRANCH

The IEEE Student Branch of SA Engineering College is a vibrant and dynamic community that fosters innovation, learning, and collaboration among students and faculty. The branch actively organizes workshops, technical talks, hackathons, and conferences to equip members with cutting-edge skills and insights. Faculty mentors guide students in academic and research pursuits, aligning with IEEE's mission of advancing technology for humanity. The branch creates a thriving ecosystem that prepares students for professional success while contributing to technological progress.

ABOUT IEEE

The Institute of Electrical and Electronics Engineers Inc. (IEEE) is the world's largest professional association for the educational and the technical advancements. The IEEE oers learning and educational opportunities, sponsors conferences, symposiums, workshops and other technical programmes and also facilitates students' technical activities through IEEE student chapters.

ABOUT IEEE MADRAS SECTION

The IEEE Madras Section was established in 1973 and is in it's golden jubilee year. It has an active membership over 7000. It organizes conferences, seminars, workshops, symposia, faculty development programmes and other technical programmes. The section is concerned about the welfare of the students to enrich their skills and knowledge in this part of the country and strives to improve the teaching learning process in the engineering colleges and universities.

ABOUT FDP

The One-Week FDP on "Industry 5.0 - Empowering Sustainable Goals" is designed to offer participants a comprehensive understanding of Industry 5.0 principles and their critical role in achieving Sustainable Development Goals (SDGs). The program emphasizes the integration of advanced technologies, such as AI, ML, and robotics, with a human-centric approach to industrial and business innovations.

OBJECTIVES

- To provide an in-depth understanding of Industry 5.0 principles and their alignment with Sustainable Development Goals (SDGs).
- To explore the integration of human-centric technologies, such as AI, ML, and robotics, in industrial innovation.
- To emphasize sustainability in manufacturing and business processes through advanced technological solutions.
- To encourage interdisciplinary collaborations to address global challenges with Industry 5.0 frameworks.
- To equip participants with skills for implementing sustainable practices in industries, leveraging next-generation technologies.

OUTCOMES

By the end of this FDP, faculty will be enriched with:

- Gain a comprehensive understanding of Industry 5.0 and its relevance to SDGs.
- Analyze the role of human-technology collaboration in creating sustainable and innovative solutions.
- Develop strategies to implement Industry 5.0 principles in real-world scenarios.
- Identify challenges and opportunities in advancing sustainable development through industrial innovation.
- Engage in interdisciplinary research and application projects focused on sustainability and Industry 5.0 technologies.

Industry 5.0

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WHO CAN ATTEND?

- Faculty Members of Engineering Colleges / Universities
- R&D and Industry Personnel
- Research Scholars & PG Students

REGISTRATION FEE

- Non – IEEE Members / Others : **Rs. 600/-**
- IEEE Members / Host Institution: **Rs. 300/-**

ACCOUNT DETAILS

Payment Mode - NEFT / IMPS / Direct Deposit / Swift Transfer / UPI

Account Number :	**50106245804**
Account Name:	**SAEC IEEE Student Branch**
IFSC Code:	**IDIB000C571**
Bank Name:	**Indian Bank**
Branch:	**S. A. Engineering College**

SELECTION PROCESS

First Come first Serve
50 participants only

Selected participants will be intimated through email

For registration, please click the following button

REGISTER NOW

CONTACT US

Mrs. D. Chithra, Assistant Professor, IT
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Mrs. T. Veena, Assistant Professor, IT
8610946335 veenat@saec.ac.in

Resource Persons

Dr. R. K. Amit

Professor, Department of Management Studies, IIT Madras

Introduction to Industry 5.0 and SDGs

Mr. H. R. Mohan

IEEE Ambassador &
IEEE Life Senior &
Chair - Events, IEEE CS Madras

Digital Transformation, Circular Economy and Resource Optimization

Mr. V. Venkatraman

Founder & CEO, EmBridge Solutions Pvt Ltd

Industry 5.0 Practical Approach for Implementation

Dr. Kulwant Pawar

Professor, Nottingham University Business School, UK

Cross-Country Comparative Analysis of Digital Manufacturing Strategies

Mr. S. Ramachandran

Principal Consultant, Infosys Knowledge Institute, Bangalore

Industry 5.0 for Inclusive, Sustainable Smart Factories

Mr. A. Leo Bernard

Manager, Plant Engineering, Ashok Leyland, Chennai

Sustainable Development Through Innovation Approach Hazardous Waste Recycling

Dr. S. Sountharrajan

Chairperson, Amrita Vishwa Vidyapeetham, Chennai

The Future of Sustainability in Industry 5.0: Emerging Trends and Challenges

Dr. Raguraman Munusamy

Head, School of Interdisciplinary Design and Innovation, IIITDM Kancheepuram, Chennai

Real-World Applications and Design Thinking on Sustainable Innovations

S.A. Engineering College

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IEEE Madras Section

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HoD, IT, SAEC

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HoD, CSE (AIML) & IQAC Coordinator, SAEC

Organizing Co-Chair

Dr. M. Geetha
Professor, IT, SAEC

Convenor

Dr. M. Nalini
IEEE Student Branch Counsellor &
Associate Professor, CSBS, SAEC

Organizing Committee Members

Mrs. D. Chithra,
Assistant Professor, IT, SAEC

Mrs. T. Veena
Assistant Professor, IT, SAEC

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Assistant Professor, IT, SAEC

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