

S.A. ENGINEERING COLLEGE

(Autonomous - Institute Level Research Centre, Affiliated to Anna University, Chennai)

Accredited by NAAC 'A' Grade & ISO 9001:2015 Certified Institution





2024-2025 (EVEN)

NEWSLETTER

"The function of education is to teach one to think intensively and to think critically.
Intelligence plus character — that is the goal of true education."

COMPUTER SCIENCE AND ENGINEERING

MISSION

- 1. Educational Excellence: To provide a transformative learning experience that integrates theory with practical skills, fostering creativity, critical thinking, and lifelong learning in Computer Science and Engineering.
- 2. Innovative Research: To promote research and interdisciplinary collaboration, addressing contemporary challenges in technology and society.
- 3. Sustainable and Ethical Practices: To facilitate the development of sustainable technological solutions with ethical practices that positively impact the environment and society.
- 4. Industry and Society: To build partnerships with industry and stakeholders, enhancing the employability and entrepreneurial spirit of students, while contributing to technological and societal advancement.h.

VISION

To pioneer in the emerging areas of Computer Science and Engineering education and research, fostering innovation, ethical values, sustainable technologies that advance the digital world and improve societal well-being.

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PROGRAMME EDUCATIONAL OBJECTIVES

PEO 1: Graduates shall have professional competency in the field of Computer Science and Engineering for pursuing higher education, research or as entrepreneurs.

PEO 2: Graduates shall work in a business environment with ethical standards, leadership qualities and communication necessary for engineering principles.

PEO 3: Graduates shall adapt to emerging technologies and respond to the challenges of the environment and society forever..



Dr.R.Geetha Professor & HoD

EDITOR IN CHIEF

Dr.R.Geetha

Mr.C.Balakrishnan

EDITORS

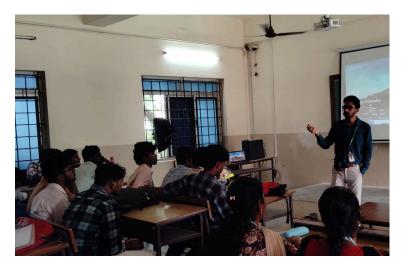
Dr.S.Sivakumar Dr.M.Kavitha

GUEST LECTURE



UNLOCK NEW OPPORTUNITIES IN DATA SCIENCE

- Explained the importance of data in the digital era and how it drives business decisions.
- Introduced key areas in Data Science: data collection, cleaning, analysis, and visualization.
- Discussed popular tools and technologies such as Python, R, SQL, and Tableau.



EMERGING CAREER OPPORTUNITIES

- Explored various roles like Data Analyst,
 Data Scientist, Machine Learning
 Engineer, and Al Specialist.
- Highlighted high-demand sectors such as healthcare, finance, e-commerce, and cybersecurity.
- Provided insights into industry expectations, skill requirements, and career roadmaps.



SKILLS DEVELOPMENT AND FUTURE SCOPE

- Emphasized the need for strong analytical thinking, statistical knowledge, and coding skills.
- Encouraged students to pursue online certifications and internships to enhance their profiles.



TECHNIQUES AND TOOLS FOR DATA PROTECTION

- Covered encryption methods (like AES,
 TDE) used to secure sensitive data.
- Demonstrated the use of access control mechanisms such as role-based and privilege-based access.
- Introduced firewalls, database activity monitoring tools, best practices for backups, patch management, and auditing database activity and intrusion detection systems.



UNDERSTANDING SECURITY

DATABASE

- Explained the concept of database security and why it's essential in today's digital era.
- Emphasized the importance of confidentiality, integrity, and availability (CIA triad) in secure databases.
- Introduced common vulnerabilities and threats such as SQL injection, privilege escalation, and data breaches.



GUEST LECTURE ON

ORGANIZES

DATABASE SECURITY: PROTECTING DATA IN A DIGITAL AGE

HOSTED BY
Mr. Kaja Muyenudeen
Senior Engineer
Albert Invent
World Trade Centre,
Dr. Rojendra Prasad Road,
Malleswaram, Bengaluru
Contact: 9952952707
Kaja.muyenudeen@gmail.com

044 26801999

www.saec.ac.in
saec@saec.ac.in

 Shared real-life case studies of major data breaches and how they could have been prevented.



UNDERSTANDING THE CI/CD PIPELINE

- Defined Continuous Integration (CI) and Continuous Deployment/Delivery (CD) in mobile development.
- Explained the workflow from code commit to testing, building, and automatic deployment..
- Discussed popular tools like Jenkins,
 GitLab Cl, CircleCl, and Bitrise.



AUTOMATED MOBILE TESTING

- Explained the need for automated testing to speed up mobile app development and ensure quality.
- Covered tools commonly used like Appium, Espresso, and XCTest for Android and iOS platforms.



REAL-TIME DEMONSTRATIONS & INDUSTRY INSIGHTS

- Conducted a live demo showing integration of mobile app code with a CI/CD pipeline.
- Discussed common challenges in mobile CI/CD like device fragmentation and test environment setup.

DIGITAL MARKETING

- The CSE department organized a Guest Lecture for all IV-year students of the CSE department on 'Digital Marketing'.
- These programs help students explore both technical and non-technical fields, ensuring comprehensive career guidance and skill development.
- The Lecture was organized on 11.03.2025.



CAREER ADVICE AND GUIDANCE

- Explains the various opportunities available in the tech industry.
- The Lecture was organized on 13.02.2025.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ORGANIZES

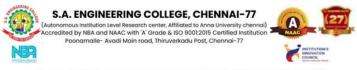
GUEST LECTURE

ON



AI-POWERED CYBER THREATS

- Learning about malware that uses Al to change its code or behavior to evade detection.
- The Lecture is organized on 11.03.2025.



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ORGANIZES

GUEST LECTURE ON



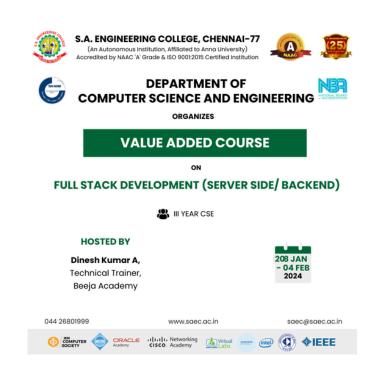
VALUE ADDED COURSE

UI/UX DESIGN

- The CSE department organized 'UI/UX Design' VAC for all II-year students of the CSE department.
- The main objective and aim are to equip students with current technologies and to reduce the gap between academics and industry.
- The course was organized from 03.01.2025 to 09.01.2025.



FULLSTACK DEVELOPEMENT



- The CSE department organized 'FULL STACK DEVELOPEMENT (SERVER SIDE/BACKEND)' VAC for all III-year students of the CSE department.
- The main objective and aim are to equip students with current technologies and to reduce the gap between academics and industry.
- The course was organized from 20.01.2025 to 04.02.2025.

NSIC GUINDY

- The CSE department organized 'UI/UX Design' VAC for all II-year students of the CSE department In the National Small Industries Corporation (Guindy).
- The training was conducted at the National Small Industries Corporation (Guindy), offering a real-world industry environment.
- The course was organized from 30.12.2024 to 04.01.2025.







- The main objective was to enhance students' knowledge and skills by bridging the gap between academic concepts and industry practices.
- Key design principles such as usability, accessibility, and responsiveness were thoroughly discussed.
- Students gained hands-on experience with Industry Level tools and techniques widely used in the industry.

INDUSTRIAL VISIT



IIT MADRAS

- Department of Computer Science and Engineering Organized a Industrial Visit to IIT MADRAS
- The Industrial Visit is for III-year CSE Students.
- The Industrial Visit was held on 03-01-2025

- Department of Computer Science and Engineering Organized a Industrial Visit to VCODEZ Innovating Ideas.
- The Industrial Visit is for II-year CSE
 & CSE (Cyber Security) Students.
- The Industrial Visit was held on 13-03-2025



VCODEZ



AERO KNOTZ DRONE

- Department of Computer Science and Engineering Organized a Industrial Visit to Aero Knotz Drone India Pvt Ltd.
- The Industrial Visit is for II-year CSE Students.
- The Industrial Visit was held on 03-04-2025

CVRDE DRDO

- Department of Computer Science and Engineering Organized a Industrial Visit to CVRDE (Combat Vehicles Research and Development Establishment) Avadi.
- The Industrial Visit is for CSE Students.



- To explore unmanned ground vehicles (UGVs) and advanced combat technologies.
- Gain practical insights into the design, development, and manufacturing of combat vehicles.
- Understand the role of research and development in national defense.
- Explore potential career paths in defence technology and research.



- The exposure to complex challenges and their solutions can motivate students towards careers in defence technology or research.
- See how concepts learned in classrooms (e.g., mechanical engineering, electronics, computer science) are applied in designing and building complex systems like tanks and armored vehicles.



CAREER GUIDANCE



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

ORGANIZES ON

CAREER GUIDANCE SERIES

FOR

III yr Students





2:00PM - 3:00PM



044 26801999

HOSTED BY
AJITH R B.E.
Alumni (2019-2023)
Consultant Software Engineer, Rapid Data
Technologies
Mail id: ajithganesh020@gmail.com
Contact no: +91 8220129566

www.saec.ac.in

07/3/2025



saec@saec.ac.in





















EVENT HIGHLIGHTS

- Strategies to plan their career path and set longterm professional goals.
- The technical and soft skills required to stay ahead in the competitive tech world.
- The Program is held on 07.03.2025.

WORKSHOP

INTRODUCTION TO UI/UX PLATFORM

- UI/UX is a low-code application development platform that accelerates software delivery.
- The workshop introduced students to building enterprisegrade apps without extensive coding.
- Real-time demos were provided to show how drag-and-drop components speed up development.
- Conducted practical sessions to build simple apps using Mendix with a focus on UI/UX.
- Students collaborated in teams to design user-friendly interfaces and simulate workflows using Mendix.
- Students gained practical exposure through live demonstrations









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INSIGHTS AND BUILDING





INAUGURATION OF EVENT'S CLUB

PRESENTS



















Introduced platforms like GitHub, CodePen, and VS Code for practicing and showcasing work.

Highlighted the demand for fullstack developers and related job roles.



COLLABORATION ΔND ITERACTIVE LEARNING

- Students were grouped in teams to collaborate on real-time mini web projects.
- Peer-to-peer learning was encouraged through code sharing and idea exchange sessions.
- Interactive Q&A rounds helped clarify doubts and promote active participation.

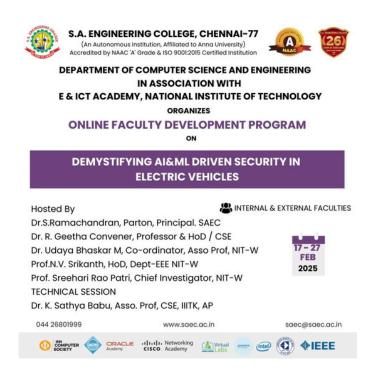
HANDS-ON WORKSHOP SESSIONS

- Participants built a basic website layout using HTML and CSS.
- Learned how to add interactivity using JavaScript and DOM manipulation.



THINKING IN ACTION WITH FIGMA

 Introduced students to Figma as a collaborative design tool for creating intuitive and responsive user interfaces.



WORKSHOP ON LOW-CODE APP DEVELOPMENT USING MENDIX

- Introduced students to the Mendix platform, emphasizing its role in building applications with minimal coding through a visual development environment.
- Covered key features such as dragand-drop UI design, workflow automation, and database integration, enabling rapid app prototyping.



 Explored the role of Artificial Intelligence and Machine Learning in enhancing the cybersecurity and operational safety of electric vehicles.

NATIONAL CELEBRATION DAY



S.A. ENGINEERING COLLEGE, CHENNAI-77

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DEPARTMENT OF CSE AND CSE (CYBER SECURITY)







BUREAU OF INDIAN STANDARDS



organizes

NATIONAL CONSUMER DAY CELEBRATION

Participants - CSE and CSE (Cybersecurity)

21-01-2025

FACULTY COORDINATOR

Dr. N. Thilagavathi, 9789504545

WIN EXCITING CASH PRIZES

POSTER PRESENTATION
ESSAY WRITING
ELOCUTION

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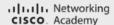
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AWARENESS AND EDUCATION STUDENT ENGAGEMENT AND ON CONSUMER RIGHTS ACTIVITIES

- Highlighted the importance of consumer rights and responsibilities under the Consumer Protection Act.
- Conducted competitions such as poster making, slogan writing, and role plays to creatively express consumer awareness.

PARENT TEACHERS MEETING







PURPOSE AND OBJECTIVES THE MEETING



COMPUTER

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



PARENT TEACHERS MEETING

FOR THIRD YEAR CSE - A, B, C STUDENTS



- To foster a collaborative relationship between parents and faculty for student development.
- To provide feedback on students' academic performance, attendance, and overall behavior.

HIGHLIGHTS OF THE INTERACTION

- Parents shared suggestions and concerns, promoting open communication and transparency.
- Faculty explained ongoing academic programs, mentoring support, and extracurricular opportunities.
- Emphasis was laid on parental involvement in motivating students to achieve their goals.



HACKATHON



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

MASTER OF COMPUTER APPLICATIONS

ORGANIZES HACKATHON ON



FULL STACK FIESTA ' 25
FOR
CSE & MCA Students

Evaluated by:

Mr. Dinesh kumar Technical Trainer Beeja Academy



www.saec.ac.in

9.00AM



2nd APR 2025



saec@saec.ac.in



044 26801999













EVENT HIGHLIGHTS

- full Stack Fiesta'25 was a 24-hour hackathon focused on end-to-end web and app development using modern tech stacks.
- Students collaborated in teams to build innovative full-stack solutions, showcasing skills in front-end, backend, and database integration.

LEARNING AND OUTCOMES

- participants gained hands-on experience in technologies like React, Node.js, MongoDB, and RESTful APIs.
- The event fostered problemsolving, teamwork, and real-time coding skills, preparing students for industry challenges.

TECH SERIES



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING & CYBER SECURITY

ORGANIZES

TECH SERIES 5.1

On



PROMPT ENGINEERING (INFOSYS SPRING BOARD)

for

POLYTECHNIC & HIGHER SECONDARY STUDENTS

Hosted by
Mrs.Shobana R B.E,M.E(PhD)(Wipro Certified FacultyPython)
Mr.Gautam Kumar G
Mr.Jeo Gadson samuel



Time: 11.00 am- 12.00 noon Date:4th Apr 2025

044 26801999

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saec@saec.ac.in















PRACTICAL APPLICATIONS AND SKILLS FOR FUTURE CAREERS TOOLS

- Showcased real-world use cases in coding, content generation, data analysis, and customer support.
- Highlighted AI-powered platforms like OpenAI, Google Bard, and Copilot and their use in enterprise workflows.
- Encouraged development of critical thinking and experimentation to master prompt iteration.
- Shared career paths like AI
 Specialist, Prompt Engineer, AI
 Product Manager, and more.