



Sri
SAIRAM
COLLEGE OF ENGINEERING
Anekal, Bengaluru. www.sairamce.edu.in

NEWSLETTER



2024-2025



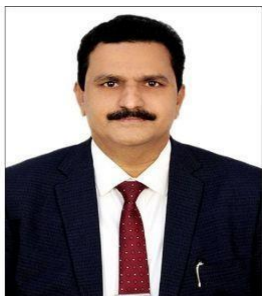
**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**

Volume 1 Issue 1

About SSCE

Sri Sairam College of Engineering, formerly Shirdi Sai Engineering College, Bengaluru, established in the year 1997 by MJF Ln Leomuthu, Founder Chairman of Sapthagiri Educational Trust, is a non-profitable and non-minority institution. Located within the Bengaluru city limits, Sairam College is an inspirational place to study in which everything from classrooms to laboratories, hostels to cafeterias is modernized with state-of-the-art infrastructure. The labs and other facilities are among the best in the region, making it one of the most sought-after institutions by parents and students.

The ultra-modern computer labs with the latest software and hardware, and techno-visionary innovative centre make the institution a learning heaven for enthusiastic young engineering aspirants. ICT-enabled classrooms and work areas are well furnished and equipped with modern up-to-date facilities.



Dr. B Shadakshrappa
Principal

Institution Vision

To emerge as a “center for excellence” offering technical education and research opportunities of very high standards to students, develop the total personality of the individual, instill high levels of discipline, and strive to

set global standards, making our students technologically superior and ethically strong.

Mission of the Institute

We dedicate and commit ourselves to achieve, sustain, and foster unmatched excellence in Technical Education.

To this end, we will pursue continuous development of infrastructure and enhance state-of-the-art equipment to

provide our students a technologically up-to-date and intellectually inspiring environment of learning, creativity, innovation, and professional activity, and inculcate in them ethical and moral values.

About the Department



Dr. Smitha J A M.E., Ph.D MISTE, MIE
Professor and Head

The Department of Computer Science and Engineering in Sri Sairam College of Engineering, formerly Shirdi Sai Engineering College, was established in the year 1997–1998 (with an intake of 40 students).

The department offers B.E. degree programmes in Computer Science and Engineering, which are affiliated with Visvesvaraya Technological University. The Department has an excellent track record of organizing various workshops and conferences in areas of emerging technologies, and facilities are encouraging students to do innovative projects. The faculty members are highly motivated and devoted to delivering the highest quality professional education to students, combined with a strong teaching-learning process including ICT-enabled classrooms. The placement record of the department has always been impressive.

Department Vision

Transform students into professional, ethical engineers to meet global challenges through quality education.

Department Mission

To impart quality education in Computer Science and Engineering with strong industry-institute partnership to develop technical & research skills.

- Enrich the technical ability of students to face the world

with confidence, commitment, and teamwork in the IT field.

Provide a learning platform for interdisciplinary innovation, research, and self-learning.

Encourage faculty and students to actively participate in holistic educational practices and to impart social values.

Department Highlights

The department has 120 intakes, considering all the technical quality and facilities provided by the management. The department is strengthened with 23 faculties, out of which 4 are doctorates, 11 are pursuing

Ph.D.,

Program Educational Objectives (PEOs)

PEO 1	Graduates of the program can be an eminent Engineering Professional to engage in professional activities, commit to team work and adapt to an ever changing global technical environment.
PEO 2	Graduates can have effective oral and written communication of technical and managerial information to analyze and solve Computer Science and Engineering problems through the fundamental knowledge of Maths, Science and Engineering.
PEO 3	Graduates are able to design and develop innovative solutions for real life problems in the Computer Science and Engineering field and related domains.

Program Specific Outcomes (PSOs):

PSO-1	The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, networking and embedded computing, web design, and data analytics for efficient design of computer-based systems.
PSO-2	The ability to understand the evolutionary changes in computing technologies, apply standard practices and strategies in software project development and testing using various programming environments to deliver a quality product for business, real world problems and meet the challenges of the future.

PROGRAM OUTCOMES (POs)

P01	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
P02	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
P03	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
P04	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions
P05	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
P06	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
P07	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
P08	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

P09	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
P010	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
P011	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
P012	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

MOU Initiatives

Organization with which MoU is signed	Year of signing MoU	Duration	List the actual activities under each MOU year wise
Binary Brooks Academy of Technology and Industrial Training, Hosur.	2025	3 Years	1. Training for Students 2. Faculty Development 3. Provides internship



Paper Publication				
Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number
Real Time Glass Recycling Quality Assurance and Contamination Reduction with IoT Random Forest Algorithm	Dr B Shadaksharappa	IEEE	2024	979-8-3503-9/24
Autonomous Mobility: A smart Wheelchair Ecosystem by IAAS cloud Model using AWS	Dr B Shadaksharappa	IEEE	2024	978-8-3503-0775
Optimizing Ride – Hailing Services with IoT – Integrated Reinforcement Learning for Passenger Matching	Dr B Shadaksharappa	IEEE	2024	979-8-3503-6115-5/24
Neural Network – Based Automated Soil Salinity Mapping and Remediation Using Wireless Sensor and Cloud Computing	Dr B Shadaksharappa	IEEE	2024	979-8-3503-5306-8/24
Iot Based Healthcare System for Paralysis Patient Using Machine Learning Algorithm	Dr B.Shadaksharappa	IJATEM	2024	2583-7052
Building an Offline Rule-Based Chatbot	Dr B.Shadaksharappa	IJATEM	2024	2583-7052
Aadhaar and Personal Data: A Survey on Privacy Concerns and Security Awareness	Dr B.Shadaksharappa	IJATEM	2024	2583-7052
Iot Based Healthcare System for Paralysis Patient Using Machine Learning Algorithm	Dr Smitha J A	IJATEM	2024	2583-7052
Building an Offline Rule-Based Chatbot	Dr Smitha J A	IJATEM	2024	2583-7052
AI-Driven Document Analysis and Interactive Learning Platform with Q and A, Image Search, and Quiz Generation	Dr Smitha J A	IJATEM	2024	2583-7052
Android APP oriented Smart Supervision of Water distribution using Internet of Things	Dr Smitha J A	SPRINGER	2024	0967-0912
Aadhaar and Personal Data: A Survey on Privacy Concerns and Security Awareness	Dr Smitha J A	IJATEM	2024	2583-7052
Bone Cancer Detection Using Deep Learning	Dr P Sumathi	IJATEM	2024	2583-7052
Predicting Brain Anomalies in Brain Wave Signals using ML Algorithms	C Valarmathi	IJATEM	2024	2583-7052
Enhancing Breast Cancer detection accuracy using U-Net architecture	C Valarmathi	IJATEM	2024	2583-7052
Gesture Zoom-Touchless Navigation at your Fingertips	C Valarmathi	IJATEM	2024	2583-7052
“Powering the Future: Smart Home Energy Management Unleashed”	C Valarmathi	IJATEM	2024	2583-7052
Automated Cardiovascular Disease Diagnosis Usin Honey Badger Optimization with	Shoba V	IJATEM	2024	2583-7052

Urban “Digital Twins” for Smart Cities and Citizens	Saranya C	IJATEM	2024	2583-7052
Guarding Against the Invisible Threats: Insights into Cyber security Risks and Solutions	Saranya C	IJATEM	2024	2583-7052
H-IoT for Asthma Anticipated Effects Prediction Using Machine Learning Algorithm	A Suguna	IJATEM	2024	2583-7052
Sentiment Analysis of Incoming Voice Calls	A Suguna	IJATEM	2024	2583-7052
Smart Vending Machine with Auto-Return Mechanism	A Suguna	IJATEM	2024	2583-7052
AI Integration in the Educational Systems of the US and India	A Suguna	IJATEM	2024	2583-7052
ML Driven Multimodal Skin Disease Detection and Monitoring	A Suguna	IJATEM	2024	2583-7052
A Food Recognition System for Diabetic Patients Based on an Optimized Bag-of-Features Model	A Suguna	IJATEM	2024	2583-7052
OMR Detection Using Image Processing Technique	A Suguna	IJATEM	2024	2583-7052
Resume Building Web Application	A Suguna	IJATEM	2024	2583-7052
Early Detection of Parkinson’s Disease Using Image Processing and Machine Learning	Yamuna A	IJATEM	2024	2583-7052
AI-Enhanced Career Guidance System for Personalized Career Pathways	Amsa Lakshmi M	IJATEM	2024	2583-7052
Recognizing impurities of Micro Doppler Signals and determination of the target	Amsa Lakshmi M	IJATEM	2024	2583-7052
An Efficient Framework for Cancer Classification with Deep Learning	Amsa Lakshmi M	IJATEM	2024	2583-7052
Web 3.0: The Future of the Internet	T. Nithya Kalyani	IJATEM	2024	2583-7052
Advanced Machine Learning Classification of Areca nut Variants Based on Quality and Multidimensional Parameter Analysis	T. Nithya Kalyani	IJATEM	2024	2583-7052
Meme Generator	T. Nithya Kalyani	IJATEM	2024	2583-7052
Nutrient Deficiency Detection in Plants	T. Nithya Kalyani	IJATEM	2024	2583-7052
Speech Recognition Based On Machine Learning	Karthika K	IJATEM	2024	2583-7052
Data-Driven Entrepreneur Information and Analysis for Business Opportunity Evaluation	Karthika K	IJATEM	2024	2583-7052
Fire Fighting Robot	Karthika K	IJATEM	2024	2583-7052

Books to Bytes	Karthika K	IJATEM	2024	2583-7052
Gas Leakage Detector and Auto Dialing Controller System	Rizvana M	IJATEM	2024	2583-7052
Ingredient Detection and Recipe Recommendation Using Deep Learning	Dhiva Bharathi P	IJATEM	2024	2583-7052
(Classification of Blood Group) Classification of Diseases Based On Blood Test Using Machine Learning	Sadhana R	IJATEM	2024	2583-7052
Mental Health Tracker-MHT	Sadhana R	IJATEM	2024	2583-7052
Portable Wind Energy: Safe and Compact Solutions for Sustainable Power	Sadhana R	IJATEM	2024	2583-7052
Smart Property Assistant: Automated Valuation and Legal Advisory System	Abirami A	IJATEM	2024	2583-7052
Bug Vision: Your Path to Seamless Debugging	Shyji Elias	IJATEM	2024	2583-7052
Dynamic Bidding Platform for Enhanced E-commerce Products	Shyji Elias	IJATEM	2024	2583-7052

Student Topper List

III sem

Sl.No	USN	Name of the student	Percentage
1	1SB23CS007	AMITHA SHRI G S	9.714
2	1SB23CS094	SANKEERTHANA	9.524
3	1SB23CS121	VINAYAK MALLESH DESAI ALIYAS KAMATE	9.524

V SEM

Sl.No	USN	Name of the student	Percentage
1	1SB22CS098	SHASHANK B HUNAGUND	9.14
2	1SB22CS060	MOUNASRI V	9.048
3	1SB22CS038	JANA SRIHITHA	9.048

VII SEM

SLNo	USN	Name of the student	Percentage
1	1SB21CS020	CHANDANA A	9.750
2	1SB21CS008	AKSHATHA A	9.542
3	1SB21CS111	SUSHMA M	9.542

INDUSTRIAL VISIT

Industrial Visit IoT Open Lab Software Technology Parks of India



Industrial Visit -Dyashin Technosoft Pvt. Ltd. on 25-04-2024



STUDENT INNOVATIONS



INNOVATORS CHALLENGES 2024 (The Inventors Challenge (IC) 2024, organized by AICTE and STMicroelectronics at Greater Noida)

Our students' project was among the top 20 selected, and they were invited to present their innovation during a physical demonstration held on November 14, 2024, at Lloyd Institute of Engineering and Technology in Greater Noida.



Smart India Hackathon 2024 is an event conducted by Ministry of Human Resource Development (MHRD) in India. (The SIH 2024 were announced the problem statement in September 2024. The one team TECH PHOENIX, from Sri Sairam College of Engineering, are selected for the final in Software Edition which was conducted at Lovely Professional University, Punjab as a Nodal Center on 11th December 2024 and 12th December 2024.

KARNATAKA STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

Indian Institute of Science Campus, Bengaluru

Student Project Proposal for the 48th series of student project programme

S.No	Title of the Project	Team Members	Guide Name
1	Bone Cancer Detection using Deep Learning	Akila R Jeevitha L Harshitha K N Kavana S N	Dr. P. Sumathi