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

Approved by AICTE, New Delhi,
Affiliated to Visvesvaraya Technological University, Belagavi
Accredited by NAAC ISO 9001:2015 Certified Institution

Department of Computer Science & Engineering

About Sri Sairam College of Engineering

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 inspirationalplace to study in which everything from classroom to laboratories, hostel to cafeteria 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 student.

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

Dr. B Shadakshrappa,
Principal, SSCE

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 and still high levels of discipline and strive to set global standards, making our students technologically superior and ethically

About Department

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 intake of 40 students).

Dr. G.MANJULA,
Head of Dept. CSE

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

Department vision

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

Mission of the Department

M1. To impart quality education in Computer Science and Engineering with the strong industry institute partnership to develop technical & research skills.

M2. Enrich the technical ability of students to face the world with confidence, commitment and team-work in IT field.

M3. Provide a learning platform for interdisciplinary innovation, research and Self-learning.

M4. Encourage faculty and students to actively participate in holistic educational

practices and to impart social values.

Program Educational Objectives (PEOs)

PEO 1	Graduates develop knowledge in the core areas of Computer Science Engineering and enhance technical and research skills for providing software solutions
PEO 2	Graduates will pursue technical and managerial skills to analyze and develop problem solving abilities of Computer Science and Engineering through Mathematics, Science and Engineering to encounter industrial needs.
PEO 3	Graduates develop effective communication and management skills to interact effectively with stakeholders in the field of Computer Science Engineering and develop innovative solutions for real time problems.
PEO 4	Graduates with Lifelong learning demonstrate skills and knowledge in the domain of computer programming and exhibit leadership qualities, team work, social and ethical values.

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)

PO1	**Engineering knowledge**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**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.
PO3	**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.
PO4	**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
PO5	**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.
PO6	**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.
PO7	**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.

PO8	**Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO10	**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.
PO11	**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.
PO12	**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.

Department Activities

Student Achievement

- Sharanya.S, 1st year CSE student got selected in TalentSprint - Women Engineers Program supported by GOOGLE.She is one among the 120 students out of 22000+ students who got selected for GOOGLE WE program throughout India.

- Ajith, VasudevaRaju, Brindha, Pramod, Bhavyashree k of final Year CSE department with a Team name : "Hactivists" received the FIRST PLACE in "GreenTech Hackathon2020" which is conducted by St.Josephs College of Engineering at Mangaluru and cash prize Rs25,000.

- Mr Sujay and Mr Santosh participated in the Innovation Festival Programme 2019 Organized By Visvesvaraya Industrial & Technological Museum from National Council of Science Museums, Ministry of Culture, Government of India and bagged the certificate and cash prize for the project named NECK MOVEMENT WHEELCHAIR.

- Haja Ashik, Bhargavi Gupta, Sri Senthil Balaji, Saranya G, Bamiddi pragathi Rao won 2nd prize with cash 50,000 in Hackthon 59 organized by MIT University Pune.

- VR AND AR workshop has organized by Dept of CSE department with mixed media labs from 14-03-2019 to 18-03-2019.

- Arduino workshop organized by Computer science & Engineering department, in association with SRISHA ROBOTIC ACADEMY from 21-03-2019 to 25-03-2019.

• Mr. Siddharaj Junnakar, Data Scienctist, Monash University have addressed about Linkedin- Profile Building on 13.06.2020.

Department of Computer Science and Engineering Sri Sairam College of Engineering organized an Online workshop in Deep Learning, Neuro LinguisticProgramming, Artificial Intelligence, Natural Language Toolkit On 28/12/2020and 29/12/2020.

The Department of Computer Science and Engineering organized a 3 days online Certification course on “Sensor Technologies for IoT Applications” from 14/12/2020 to 16/12/2020

Faculty Achievement:

Dr.Manjula G ,received a National award of Excellenc Adarsh Vidya , Saraswati Rashtriya Puraskar‖ from Global Management Council on 15th Aug 2019

- Sri Sairam College of Engineering, Bengaluru, under the department of CSE hasorganized power launching webinar on 24th June 2020.
- Sri Sairam College of Engineering, Bengaluru, under the department of CSEhas organized smarthacks 2020 on 17th feb 2020

Online Courses:

1. Dr.B.Shadaksharappa has completed a certification on Leadership and EmotionalIntelligence in Course era in the year 2020.
2. Dr.B.Shadaksharappa has completed a certification on AI for Everyone in Course erain the year 2020.
3. Dr.B.Shadaksharappa has completed a certification on Data science Math skills inCourse era in the year 2020.
4. Dr.B.Shadaksharappa has completed a certification on The Aurdino Platform and CProgramming in Course era in the year 2020.
5. Dr.B.Shadaksharappa has completed a certification on Introduction to Virtual Reality inCourse era in the year 2020.
6. Dr.B.Shadaksharappa has completed a certification on Leadership and EmotionalIntelligence in Course era in the year 2020.

Faculty Achievements:

- Dr.Manjula G Nominated as Member of our Editorial Board of ‖ Glacier Journal of Scientific Research‖ with Impact factor:2.7614 of ISSN: 2349-8498
- Prof. Raghavendra Rao from the department of computer science has published a bookchapter in the title of –Deep Belief Network Based Healthcare Monitoring System in IoMT‖ in Springer.
- Prof. Lorate Shiny from the department of computer science has published three Scopus Indexed Journals in academic Year of 2019-2020 as follows.

- Robotic Surgery, ISSN: 2249 – 8958, Volume-8 Issue-6S2, August 2019.

- Energy Balance Analysis—An Impact of Temperature Variation in Unified Hydrogen Based Opto-Source, Copyright © 2019 American Scientific Publishers All rightsreserved Printed in the United States of America Journal of Computational and Theoretical Nano-science Vol. 16, 1–5, 2019.
- Non integer order PID controller tuning using grey wolf optimization method for Sea Water Reverse Osmosis Desalination process, International Journal of Control and Automation Vol. 13, No. 2s, (2020), pp. 282-291

Paper Publications:

1. M. Lorate Shiny has published a paper titled on "Integrated Crop Protection Management" in the journal of Sambodhi with ISSN: 2249-6661
2. Mr.P Ramkumar has published a paper titled on "Real time Path planning using intelligent transportation system for Hybrid VANET" in the academic year 2020-2021 in IEEE Conference with ISSN : 978-1-7281-1101-8
3. B Shadaksharappa, P Ramkumar has published a paper titled on "Classification ofcorona virus(COVID -19) using images by Machine Learning" in International Jounal of Grid and Distributed Computing with ISSN: 2005-4262 in the academic year 2020-2021.
4. N.R.P.Nivetha, has published a paper titled on "Energy And Efficient Deep Packet Inspection For Advanced Cloud Outsourced Middlebox" in International Journal of Scientific & Technology Research with ISSN: 4262 IJGDC,in the academic year 2020- 2021
5. based K-Means Algorithm in Journal of Physics: Conference Series 1979 (1), 012015 in the academicyear 2020-2021

6. P Ramkumar, R Uma, S Usha, R Valarmathi has published a paper titled on “Real Time Path Planning using Intelligent Transportation System for Hybrid VANET” in 2020 International Conference on Power, Energy, Control and Transmission Systems(ICPECTS) in the academic year 2020-2021
7. Dr B.Shadaksharappa, Dr.P.Bindhu Madhavi ,P.Ramkumar has published a paper titled on “Attack Prediction By Using Greedy Algorithm For Diminishing The Drop And Delay In Wireless Sensor Networks” on 04/11/2021 in Turkish Journal of Computer and Mathematics Education (TURCOMAT)
8. Dr P Bindhu Madhavi has published a paper titled on “Iot Based Intruder Detection Through Data Anlaysis & Implementation For Atm” on 04/11/2021 in Turkish Journal of Computer and Mathematics Education (TURCOMAT)
9. Dr. G manjula , sowmya s r , loraty shiny and lavanya has published a paper titled on “DYNAMIC SCENARIOS TRANSFORMATION IN SOFTWARE SYSTEM DESIGN USING ZEND FRAMEWORK” Journal of Tianjin University Science and Technology) with ISSN: 0493-2137 , Vol:54Issue:04:2021
10. Dr B.Shadaksharappa has published a book chapter titled on “Education System” in ESN PUBLICATIONS INDIA with ISBN: 978-81-950305-7-6,in the academic year 2020- 2021
11. Dr B.Shadaksharappa has published a book chapter titled on “IOT,AI and Machine LEARNING” in ESN PUBLICATIONS INDIA with ISBN: 978-81- 950423-5-7,in the academic year 2020-2021
12. Dr B.Shadaksharappa has published a book chapter titled on “Recent Trends on Multidisciplinary Research” in ESN PUBLICATIONS INDIA with ISBN: 978-93-90781-23-2,in the academic year 2020-2021
13. Dr B.Shadaksharappa has published a book chapter titled on “Trends and issues in Indian education” in Kanishka publishers,Distributerswith ISBN: 978-93-89484-52- 6,in the academic year 2020-2021
14. P.Ramkumar, P Kalamani, C Valarmathi, M.Sheela Devi has published a paper titled on “An Effective Analysis of Data Clustering using Distance-

Book Publications:

1. Dr. B.Shadaksharappa,Mr. P.Ramkumar, has published a book titled on Self Learning Approaches of Operating System in Book River Publications.
2. Mr. P.Ramkumar, Dr.R.Uma,Dr.R.Valarmathi,Dr.J.Anitha Ruth has published a book titled on "Programming With JAVA" in Book River Publication.

Student Topper List

USN	Name	Photo
1SB20CS051	KAVYA M N	
1SB20CS113	UMME KULSUM	

List of placed Students

70 Students that had been placed in various companies.

S.No	Name Of TheStudent	USN	Name of the Employer	College Reference
1.	A Yuvashri	1SB16CS001	Fametronix	SSCE/TAP/OL/2019-20/CSE/001
2.	Ajith Kumar K	1SB16CS005	TCS	SSCE/TAP/OL/2019-20/CSE/002
3.	Akhila L	1SB16CS006	Palle Technologies	SSCE/TAP/OL/2019-20/CSE/003
			24.7	SSCE/TAP/OL/2019-20/CSE/004
4.	Akshatha Ashoka Kasara	1SB16CS007	Mindtree	SSCE/TAP/OL/2019-20/CSE/005
5.	Akshaya Tr	1SB16CS009	Feenixtech	SSCE/TAP/OL/2019-20/CSE/006
6.	Amit Kumar	1SB16CS011	Fametronix	SSCE/TAP/OL/2019-20/CSE/007
7.	Anand G R	1SB16CS012	Feenixtech	SSCE/TAP/OL/2019-20/CSE/008
8.	Aneela	1SB16CS013	Palle Technology	SSCE/TAP/OL/2019-20/CSE/009
9.	Anees M	1SB16CS014	Fametronix	SSCE/TAP/OL/2019-20/CSE/010
10	Angel J	1SB16CS015	Joules ToWatts	SSCE/TAP/OL/2019-20/CSE/011
11	Arjun R	1SB16CS017	Palle Technologies	SSCE/TAP/OL/2019-20/CSE/012
12	Ashish Kumar	1SB16CS018	Palle Technologies	SSCE/TAP/OL/2019-20/CSE/013
			Feenixtech	SSCE/TAP/OL/2019-20/CSE/014
	Ashutosh Kumar	1SB16CS019	Palle	SSCE/TAP/OL/201

Editorial Board

2020-2021	Jan-Dec	"Advaya20" 2020-2021 Vol-1_issue-1	Prof. Ragavendra Rao Prof. Reji Thomas Prof. c. Valarmathi	Sri Sairam college of Engineering,Anekal