SANTHIRAM
ENGINEERING COLLEGE (AUTONOMOUS)

Approved by AICTE, New Delhi, Permanently Affiliated to
JNT University, Ananthapuramu.

Accredited by NAAC (Grade-A), Accredited by NBA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CSE CHRONICLE

THE CSE DEPARTMENT NEWSLETTER

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Building Technology Driven Future





Dr. M.V. Subramanyam

Principal
Santhiram Engineering College

MESSAGE FROM THE PRINCIPAL

It gives me immense pleasure to see the continued growth of the Department of Computer Science & Engineering at SREC as a center of academic and technological excellence. "CSE CHRONICLE – The CSE NEWS LETTER" provides a valuable platform for students and faculty to share their knowledge, ideas, achievements, and technical insights. I appreciate the efforts of the editorial team and students in bringing out this edition and wish CSE CHRONICLE continued success in the years ahead.



Dr. S. Md. Farooq

Professor & HoD
Department of Computer Science & Engineering

MESSAGE FROM THE HEAD OF THE DEPARTMENT

It is my pleasure to congratulate the editorial team, faculty, and students for their sincere efforts in bringing out "CSE CHRONICLE – The CSE NEWS LETTER" This publication reflects the creativity, knowledge, achievements, and technical excellence of our department. I hope CSE CHRONICLE inspires our students and faculty to learn, innovate, and contribute meaningfully to future editions. I wish the entire team continued success.



CSE CHRONICLE

THE CSE NEWS LETTER



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DEPARTMENT GLANCE

ESTABLISHED
2007
B.Tech. Programme in Computer Science & Engineering

B.TECH INTAKE
60 → 300
Students
Progressively increased from an initial intake of 60 to 300 in 2024

FACULTY STRENGTH
43
Faculty Members
Highly qualified, experienced and dedicated faculty

COMPUTING INFRASTRUCTURE
~700
Computers
High-speed internet connectivity, smart boards, projectors, UPS backup, air-conditioned laboratories

MODERN LEARNING FACILITIES



Smart Boards in Classrooms



Projectors in Laboratories



UPS Power Backup



Air-Conditioned Laboratories

CORE TECHNOLOGY AREAS
- Artificial Intelligence
- Machine Learning
- Big Data
- Cyber Security
- Cloud Computing
- Computer Networks
- Emerging Technologies

PROFESSIONAL ASSOCIATIONS
- IEEE
- IE
- ISTE

PROGRAMS CONDUCTED (ACADEMIC YEAR 2025–26)

4	One Day Programs
1	Awareness Program
1	Virtual Webinar
1	Technical Program

SAMANVAYA-SIGMA-2K25 EVENTS CONDUCTED

4	Total Events
50	Students (AI Build-A-Thon)
131	Students (Coding Competition)
40	Individual Performers
15	Teams (Dance Championship)
33	Participants (Short Film Contest)

FACULTY & STUDENT ACHIEVEMENTS

2	Faculty NPTEL Certifications
1	Faculty FDP Attended
1	Faculty Publication
50	Students with IEEE Professional Memberships
164	NPTEL Achievements (English Language for Competitive Exams)
33	Students in Cloud Computing NPTEL Course
3	Areas of Sports Prizes (Men's Cricket, Women's Throw Ball, Women's Shot Put)



CSE CHRONICLE
THE CSE NEWS LETTER

VISION & MISSION

INSTITUTE & DEPARTMENT



INSTITUTE VISION

To become a nucleus for pursuing technical education and pool industrial research and developmental activities with social-conscious and global standards.

INSTITUTE MISSION

01 To provide Advanced Educational Programs and prepare students to achieve success and take leading roles in their chosen fields of specialization by arising a self-sustained University.

02 To establish postgraduate programs in the current and Advanced Technologies.

03 To establish an R&D Consultancy through developing Industry Institute Interaction, building up exceptional infrastructure.

04 To propel every individual, realize and act for the technical development of the society.

DEPARTMENT VISION

To become a center for quality education in the field of Computer Science & Engineering and to create competent professionals.



DEPARTMENT MISSION

01 To provide academic ambience and latest software tools to prepare competent Software Engineers with strong theoretical and practical knowledge.

02 To foster professionalism and strong work ethics in students for the betterment of society.

03 To provide adequate infrastructure as well as experienced & skilled faculty members.

04 To encourage the spirit of entrepreneurship and adaptability in our students in view of the ever-changing scenario of the Software Industry.

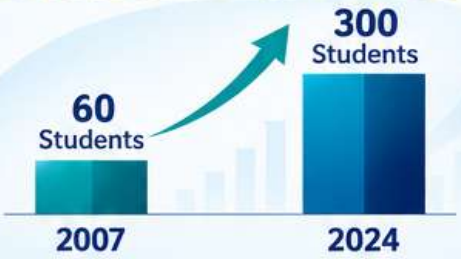
DEPARTMENT PROFILE

COMPUTER SCIENCE & ENGINEERING



01 ESTABLISHMENT & INTAKE

Recognizing the growing demand for computer engineering professionals, the Institute established the four-year **B.Tech programme in Computer Science & Engineering** in **2007** with an initial intake of **60 students**, which has progressively increased to **300 students** in **2024**.



02 FACULTY STRENGTH & EXPERTISE

The Department of Computer Science & Engineering has a strong team of **43** highly qualified, experienced, and dedicated faculty members committed to academic excellence, innovation, and research. The faculty possesses expertise across diverse areas of technology, including **Computer Networks, Big Data, Cyber Security, Cloud Computing, Artificial Intelligence, Machine Learning,** and emerging technologies. The Department continuously encourages faculty development and provides opportunities for academic, industrial, and research collaboration.



03 INDUSTRY–ACADEMIA INTERACTION

The Department maintains strong industry–academia interaction and promotes professional engagement through associations such as **IEEE, IE,** and **ISTE.** These collaborations provide opportunities for research, knowledge sharing, technical events, faculty development, and student enrichment.

IEEE

IE

ISTE

04 INFRASTRUCTURE & FACILITIES

The Department is supported by well-equipped computer laboratories and modern computing infrastructure, with a network of approximately **700 computers** and high-speed internet connectivity for teaching, learning, research, and administrative activities. The classrooms are equipped with **smart boards** and modern digital teaching facilities, enabling interactive and technology-enabled learning. Additional facilities include **projectors**, uninterrupted power backup through **UPS systems, air-conditioned laboratories**, and other essential academic infrastructure.







05 OUR COMMITMENT

With its blend of qualified faculty, modern infrastructure, industry interaction, research opportunities, and technology-enabled learning, the Department strives to nurture **competent, innovative, and industry-ready computer science professionals.**



PROGRAMS CONDUCTED:

1.A ONE DAY PROGRAM



A One Day Program on “Career Opportunities Beyond Campus Placements” organized on 13-10-2025 for II-CSE students Mr. Pavan Channaletti, Founder & CEO of Data valley acted as a Recourse person for this program

2.A ONE DAY AWARENESS PROGRAM



A One Day Awareness Program on “The Rise of Generative AI: Opportunities and Challenges” in association with IEEE CS Student branch chapter-17901B organised on 18-12-2025 for II CSE Students. Mr.Uma Desu, Chief Executive Officer, Intellindia acted as a resource person for this program

3. ONE-DAY VIRTUAL WEBINAR



A one-day virtual webinar on “How to be a World-Class Researcher?” organised on 20-12-2025 for III-CSE students. Prof. Sudip Chakraborty, University of Calabria, Italy acted as a resource person for this program

4. A ONE DAY PROGRAM



A one-day program titled **“Empowering Students with Practical AI Tools”** organized for II CSE students on 30-12-2025. IEEE Computer Society advisor Mr. M. Amareswara Kumar acted as a resource person for this program.

LIST OF EVENTS ORGANIZED DURING SAMANVAYA-SIGMA-2K25

1.AI-BUILD-A-THON



A total of 50 students actively participated in the event. Mr. S.Md. Riyaz Naik, Assistant Professor, Department of Computer Science and Engineering, served as the judge for the competition

2.CODING COMPETITION



The SAMANVAYA- Coding Competition was held on 10-10-2025 for students from different departments across various colleges, with 131 students participated in the event.

3. DANCE CHAMPIONSHIP



The SAMANVAYA Dance Championship was successfully conducted on 11-10-2025 for students from different departments across multiple colleges.A total of 40 individual performers and 15 teams took part in the championship. Ms. R. Rama Devi, Assistant Professor, Department of Business Studies, was appointed as a judge for this event.

4. SHORT FILM CONTEST



The SAMANVAYA Short Film Contest was conducted on 11-10-2025 for students representing various departments from multiple colleges. The event witnessed the participation of 33 students. Mrs. B. Alekhya Hima Bindu, Assistant Professor, of ECE department acted as a judge for this event.

FACULTY FDP/WORKSHOPS ATTENDED:

- Ms.S.Nazia Banu, Assistant Professor attended following Faculty development programs
  - 5-Day National Level Professional Development Programme (PDP) on Quantum Computing held from 21-10-2025 to 25-10-2025, organized by VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad in collaboration with the Blackbucks Group.
  - 5-Day National Level Faculty Development Programme (PDP) on Quantum Machine Learning held from 08-12-2025 to 12-12-2025, organized by Department of Information Technology, Vignan's Foundation for Science, Technology & Research.
- Mrs.V.Lakshmi Chaitanya and Mrs. M. Sharmila Devi, Assistant Professor have attended One Day IIC Regional Meet 2025 MoE's Innovation Cell Institutions' Innovation Council, AICTE on 02-12-2025 hosted by SRM University, AP, Vijayawada.

FACULTY ACHIEVEMENTS:

- Dr. S. Md. Farooq, Professor, has achieved following achievements
  - Received Bhisma Acharya Award 2025 from Bharat Educational Excellence Awards 5th Edition on 01-11-2025.
  - Received membership in the IEEE Computer Society on 01-12-2025.
  - Submitted a project proposal titled 'AI for Science and Engineering' worth of Rs.1,50,00,000/- under ANRF scheme on 25.11.2025.
  - Mr.M.Amareswara Kumar, Assistant Professor received membership in the IEEE Robotics & Automation Society on 01-12-2025.

100% RESULTS:

- Dr. S. Md. Farooq, Professor produced 100% result in the subject of "Cloud Computing" for IV-I CSE-A of 2022 batch.
- Mr.M.Amareswara Kumar, Assistant Professor produced 100% result in the subject of "Advanced Data structures & Algorithms" for II-I CSE-A student's of 2024 batch.
- Mrs.V.Lakshmi Chaitanya, Associate Professor produced 100% result in the subject of "Introduction to Quantum Technologies and Applications" for III-I CSE-C of 2023 batch
- Mr.KV Sai Phani, Assistant Professor produced 100% result in the subject of "Blockchain Technology and Applications" for IV-I CSE-A, B&C sections of 2022 batch.

NPTEL COURSES

- Mrs.V.Lakshmi Chaitanya, Associate Professor successfully completed and secured ELITE certificate from NPTEL-FDP in the subject "Introduction to Quantum Computing: Quantum Algorithms and Qiskit" during July-Oct, 2025.
- Mr.M.Amareswara Kumar, Assistant Professor, successfully completed NPTEL-FDP in the subject "Introduction to Machine Learning" during July -Oct 2025.

FACULTY PUBLICATIONS:

- Mrs. M. Sharmila Devi, Assistant Professor, presented a paper titled "Development of an Interactive Simulation Platform for BB84 and E91 Quantum Cryptography Protocols with Integrated Security Analysis" in the 6th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS-2025), held from 15-12-2025 to 17-12-2025.

FACULTY PATENTS:

- Dr.S.Md.Farooq, Professor published the following Patents on 19-12-2025
  - Patent titled "Adaptive Recognition of Human Behaviours Using Multimodal Data for Prevent Healthcare".
  - Patent titled "Ethereum Smart Contract for Secure Land Transactions with Deep Learning Anomaly Detection".
  - Patent titled "Integrated Model for AI-Generated Images Forensics Using Nas net with XAI".
- Mrs. M. Sharmila Devi, Asst Prof, published the following Patents on 19-12-2025.
  - Patent titled "Secure and Reliable Scada-Driven IIOT Networks: An Ensemble Learning Framework with PRU and DT".
  - Patent titled "SECGUARD- CNN: A 2D Convolutional Neural Framework for Intelligent Cyberattack Detection in IIOT USI".
- Mr.S.Md.Riyaz Naik, Associate Professor published the following Patents on 19-12-2025
  - Patent titled "An SVM-Based Methodology for Disaster Forecasting and Emergency Rescue".
  - Patent titled "Dual-Phase Deep Learning Pipeline for Forest Fire Recognition and Localization in Machine Vision".
- Mrs.V.Lakshmi Chaitanya, Associate Professor published the following Patents on 19-12-2025
  - Patent titled "Rank-E++: an Enhanced Explainable ai Framework for Detecting Multi-Stage Persistent Threats in Enterprise Networks".
  - Patent titled "A Scalable Intrusion Detection Framework for Industrial IOT Using Distributed DNNS and Extreme Learn".
- Mr.P.Bhaskar, Associate Professor published the following Patents on 19-12-2025
  - Patent titled "Automated Hypertension Risk Prediction and Notification System Using Decision Tree Classifier".
  - Patent titled "Deep Learning-Based IOT Botnet Detection: A Comparative Analysis of CNN, LSTM, RNN, and ACLR Approaches".
  - Patent titled "AI-Driven Image Augmentation System for Agricultural Applications Using Generative Adversarial and Convolutional Networks".
- Mr.M.Amareswara Kumar, Assistant Professor published the following Patents on 19-12-2025
  - Patent titled "Attention-Enhanced CNN for Early Detection of Skin Lesions"
  - Patent titled "Adaptive Multiscale CNN for

Robust Human Behavior Recognition with Hybrid Learning".

- Mr.S.Nagendrudu, Assistant Professor published the following Patents on 19-12-2025
  - Patent titled "Blockchain-Based Secure IOT Software Updates Using CPABE, ECDSA, And IPFS for Improved Efficiency".
  - Patent titled "Security Optimization for Cyber-Physical System Using Game-Theory and Reinforcement Learning Framework".
- Mr.KV Sai Pani, Assistant Professor published a Patent titled "Intelligent Stroke Risk Detection with CATBOOST: A Web-Based Predictive Diagnostic System" on 19-12-2025.
- Mrs.M.Anusha, Assistant Professor published the following Patents on 19-12-2025.
  - Patent titled "AI & ML-Based Yolov8 Smart Surveillance for Safety, Security, and Workforce Management".
  - Patent titled "Deep Learning-Based Multi-Disease Detection from X-Ray Images".
- Mrs. O.Bhulakshmi, Assistant Professor published the following Patents on 19-12-2025.
  - Patent titled "System and Method for Event Detection and Trust Verification Using Blockchain and Natural Language Processing".
  - Patent titled "Bridging Language and Vision: Bidirectional LSTM-Enhanced CNN Framework for Text-To-Image Synthesis".
- Mr.M.Jayamma, Assistant Professor published the following Patents on 19-12-2025.
  - Patent titled "CNN1D-Based Deep Learning Framework for Online Fraud Transaction Detection".
  - Patent titled "Deep Learning Approach for UAV-Based Road Condition Monitoring".
- Ms.S.Nazia Banu, Assistant Professor published the following Patents on 19-12-2025.
  - Patent titled "Resource-Efficient Predictive Models for Start-Up Success Using Sustainable ML Approaches".
  - Patent titled "System and Methods Utilizing Decision for OCD Detection and Treatment Response Prediction".

STUDENT ACHIEVEMENTS

- Total 50 students are obtained IEEE Professional Body Membership.

STUDENT NPTEL COURSES

- The following are the NPTEL courses completed by the students of III-B.Tech I-Sem CSE of 2023 batch, during Jul-Oct, 2025:
  - 164 students in the subject **"**English Language for Competitive Exams", in which 54 students were received **ELITE SILVER certificate** and 65 students' **ELITE** certificate and 45 students were successfully completed.
- The following are the NPTEL courses completed by the students of IV-B.Tech I-Sem CSE of 2022 batch, during Jul-Oct, 2025:
  - 33 students in the subject **"**Cloud Computing", in which 09 students' **ELITE** certificate and 24 students were successfully completed.
- The following are the NPTEL courses completed by the students of III sem M.Tech of 2024 batch, during Jul-Oct, 2025:
  - 02 students were successfully completed and secured NPTEL certificate from NPTEL in the subject **"**Algorithmic Game Theory".
  - 06 students in the subject **"**Cloud Computing", in which 01 student' **ELITE** certificate and 05 students were successfully completed.

PARTICIPANTS OF SIGMA-2K25

SIGMA-2K25 comprised a series of activities conducted between 10th & 11th Oct, 2025.

- In which the following CSE students secured first prize
  - Dialogue Delivery-Rangaswami(23X51A05I0).
  - Treasure Hunt – G.Mahadeva (23X51A0580), Dasi Reddy Surya Teja (23X51A0545) and Shaik Sadik (23X51A0564).
  - Fashion Fest Catwalk-S.Sana (24X51A05T5).
  - Stand-Up Comedy- D Aditya (24X51A0562).
  - Artistic Impression Mehandi -T Shifa Fahreen (22X51A05E3).
  - Melodious Voice - M.Hema Charan (23X51A05C9.)
  - AI Build-A-Thon – E.Sneha (23X51A0558), B.Poojasri (23X51A0525).
- The following CSE students secured second prize
  - Stand-UP Comedy-D.Kabeer Das (24X51A0522).
  - Dance Championship- K.Akshaya Kumari (23X51A5C0).
  - AI Build-A-Thon-S.ShabbirAli(23X51A05L3), S Tahaseen (23X51A05K4).
- The following CSE students actively participated.
  - In AI Build-A-Thon 4 teams were participated.
  - 21 Students were participated in **coding Competition**
  - 5 students were participated in **Paper Presentation**
  - 5 students were participated in **Technical Quiz**
  - 8 teams were participated in **Treasure Hunt**

GAMES & SPORTS MEET:

- The following teams won the prizes in **SMS-2K25**, organized by **Santhiram Engineering College,** Nandyal, held from 12-12.-2025 to 13-12-2025.
  - Men's Cricket Team (15 members).
  - Women's Throw Ball Team (12 members)
  - Women's Shot Put Event