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

VOLUME 10 | ISSUE 4 | 2024 - 2025



EDITOR IN CHIEF
Dr. S.Md.Farooq
Professor & HoD
CSE Department

EDITOR
Mrs.V.Lakshmi Chaitanya
Assistant Professor
CSE Department

STUDENT COORDINATORS
Ramisetty Somesh
N.Varsha
A Sai Pavan
D.M.Varun Tej

NH-40, NANDYAL – 518 501, KURNOOL (Dt.), A.P, INDIA.

SANTHIRAM
ENGINEERING COLLEGE (AUTONOMOUS)

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

Building Technology Driven Future





Dr. M.V. Subramanyam

Principal
Santhiram Engineering College

MESSAGE FROM THE PRINCIPAL

I am delighted to release CSE CHRONICLE, the newsletter of the Department of Computer Science and Engineering. This newsletter serves as a vibrant platform to showcase the department's academic achievements, innovative initiatives, student talent and various co-curricular activities. I appreciate the dedicated efforts of the faculty, students and editorial team in bringing out this edition and wish CSE CHRONICLE continued success in the years to come.



Dr. S. Md. Farooq

Professor & HoD
Department of Computer Science & Engineering

MESSAGE FROM THE HEAD OF THE DEPARTMENT

It gives me great pleasure to present CSE CHRONICLE – The CSE News Letter, which captures the vibrant academic, technical and co-curricular activities of our department. This newsletter reflects the creativity, innovation and technical excellence of our students and faculty. I congratulate the editorial team for their sincere efforts in compiling this edition and thank all the contributors for making CSE CHRONICLE a meaningful platform to share ideas and celebrate our achievements.



CSE CHRONICLE

THE CSE NEWS LETTER



SANTHIRAM
ENGINEERING COLLEGE (AUTONOMOUS)

Approved by AICTE, New Delhi, Permanently Affiliated to JNT University, Ananthapuramu.
Accredited by NAAC (Grade-A), Accredited by NBA

Building Technology Driven Future

CSE DEPARTMENT AT A GLANCE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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

B.TECH INTAKE
300
Students
(raised from 60 to 300 in 2024)

FACULTY STRENGTH
35
Highly qualified, experienced and committed faculty

COMPUTING INFRASTRUCTURE
700
Networked Computers with Internet Facility for Teaching, Research and Administration

PROGRAMMES CONDUCTED
(Academic Year 2024 – 2025, Jan – Jun)

3
Programmes Organized

- Department Club Event "Computing Agents"
- One Day Programme on "Patent Your Idea: Drafting Techniques for Beginners"
- One Week National Level Workshop on "Application Development with AI and Essential Skills"



INDUSTRY INTERACTION & TIE-UPS

- Interaction with reputed industries
- Tie-ups with professional associations such as IEEE, IE and ISTE
- Research collaboration and regular faculty & student interactions
- Five Year MoU signed with Savory Minds Pvt. Ltd. on 08.01.2025

IEEE
IE
ISTE

CORE TECHNOLOGY AREAS

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

LABORATORIES & FACILITIES


Computer Laboratories


Smart Classrooms


Projectors in Labs


Air-Conditioned Labs

FACULTY ACHIEVEMENTS

- **8** Research Papers Published (in reputed journals)
- **2** Research Papers Presented (in Conferences)
- **1** National Level FDP Organized
- **6** Faculty Technical Presentations

STUDENT ACHIEVEMENTS

- **145** Students completed Internships in RESHAPP (in reputed companies)
- **1** N. Harshitha stood First in the National Inter-College Crossword Expedition (NICE 25) – Technical Quiz

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.

SANTHIRAM
ENGINEERING COLLEGE (AUTONOMOUS)

Approved by AICTE, New Delhi, Permanently Affiliated to JNT University, Ananthapuramu.
Accredited by NAAC (Grade-A), Accredited by NBA

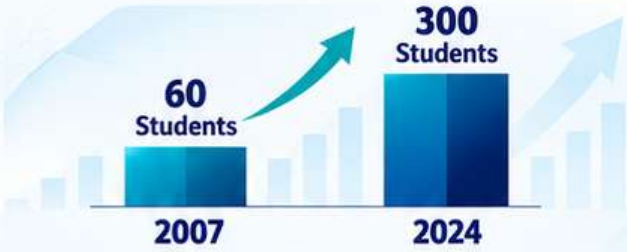
Building Technology Driven Future



DEPARTMENT PROFILE
COMPUTER SCIENCE AND ENGINEERING

01 ESTABLISHMENT & INTAKE

Recognizing the overwhelming demand for computer engineering, the Institute started a 4 year **B.Tech** course in **Computer Science and Engineering** in the year **2007** with an intake of **60 students** and the intake currently raised to **300** in the year **2024.**



02 FACULTY STRENGTH & EXPERTISE

The department has **35** highly qualified and committed faculties, all of them have a rich experience in teaching, dedication towards the pursuit of academic excellence and they are specialized in diverging areas of technology like **Computer Networks, Data Mining, Network Security, Cloud Computing and Artificial Intelligence** etc. The Department of CSE continues to recruit teachers with rich experience in academics, industry, and research and supports them providing superior research facilities.



03 INDUSTRY INTERACTION & ASSOCIATIONS

The Department has interaction with industries which have a high reputation and track record. It also has tie-ups with well-known associations like **IEEE, IE, ISTE** in pursuit of excellence reaching higher standards through Research Collaboration, faculty and students have regular interactions together.

IEEE IE ISTE

04 INFRASTRUCTURE & FACILITIES

The department has well-equipped computer laboratories and a rich repository of software covering a wide spectrum of applications. In total there exists a network of **700 computers** with internet facility for teaching, research and administration purposes. The other features include projectors to bring a sense of live class environment and for seminars; UPS for uninterrupted use during the power cuts; air condition etc.

700 Networked Computers | Internet Facility | Projectors in Classrooms & Labs | Air-Conditioned Labs | UPS for Uninterrupted Power Supply





05 OUR COMMITMENT

With a strong academic environment, modern infrastructure, industry interaction and research facilities, the Department of CSE strives to nurture competent, innovative and industry-ready professionals to meet the evolving global challenges.



PROGRAMMES CONDUCTED:

1. DEPARTMENT CLUB



The Department of CSE conducted **"Computing Agents" Department Club event,** for III and IV CSE students on 12-04-2025 in association with IEEE Student Branch STB17901 and IEEE Computer Society SBC17901B and in collaboration with R&D IPR cell

2. PATENT YOUR IDEA: DRAFTING TECHNIQUES FOR BEGINERS



The Department of CSE conducted A one day program on **Patent Your Idea: Drafting Techniques for Beginners**, for all faculties of SREC in collaboration with R&D IPR cell. Mrs.G. Sowmya dean of R&D cell, SREC acted as the resource person for this program.

3. ONE WEEK NATIONAL LEVEL WORKSHOP



The Department of CSE conducted Week National Level Workshop on Application Development with AI and Essential Skills for M.Tech students from 23-06-2025 to 27-06-2025. Mr D.Ganesh, CEO, Brain-O-Vision, Hyderabad acted as a resource person for this workshop.

FACULTY PUBLICATIONS:

- Following faculty members are published a technical paper in International Research Journal of Innovations in Engineering and Technology (IRJIET), Volume 9 Special Issue INSPIRE'25, April 2025 with E-ISSN no: 2581-3048.
  - Mrs. V. Lakshmi Chaitanya, Assistant Professor entitled on "Analysis of Network Traffic Using Deep Learning".
  - Mrs. V. Lakshmi Chaitanya, Assistant Professor entitled on "Outlier Detection for IoT Frameworks using Machine Learning Techniques".
  - Mr. M. Amareswara Kumar, Assistant Professor entitled on "Tool Wear and Fault Diagnosis and Prognostics Powered by AI".
  - Mr. M. Amareswara Kumar, Assistant Professor entitled on "Monitoring Driver Alertness with OpenCV and Machine Learning".
  - Mr.P Bhaskar, Assistant Professor entitled on "Automated Cyber Threat Identification Using Natural Language Processing".
  - Mrs. M Sharmila Devi, Assistant Professor entitled on "NLP with Deep Learning Approaches in Text Generation".
  - Mrs. M Sharmila Devi, Assistant Professor entitled on "Language-Independent Data Augmentation for Text Classification [LiDA]".
  - Mr. P Subba Rao, Assistant Professor entitled on "Detecting Jamming Attacks Using Machine Learning Models".
  - Mr. P Subba Rao, Assistant Professor entitled on "Unsupervised Learning for Cyberattack Detection in Distribution Systems: Leveraging Spatiotemporal Patterns".
- Mrs.M.Jayamma, Assistant professor has published a technical paper entitled on "An effective model of hybrid adaptive deep learning with attention mechanism for healthcare data analysis in blockchain-based secure transmission over IoT" in Network: Computation in Neural Systems on April 2025.
- Mrs. V. Lakshmi Chaitanya, Assistant Professor has presented the research paper entitled "HAASF: a Hybrid Adaptive AI Security Framework Leveraging Reinforcement Learning, GANs, and Swarm Intelligence for Resilient IoT Ecosystems' in the International Conference on Computational Robotics, Testing and Engineering Evaluation – ICCRTEE2025 held during 28-30 May 2025
- Mr. M. Amareswara Kumar, Assistant Professor has presented the technical paper entitled "Assessing Driver Alertness utilizing open CV and Machine Learning" in Second International Conference on Innovations and Advancements in Engineering, Management, Humanities and Sciences
- Mrs.M.Anusha, Assistant Professor has presented a paper entitled "Towards Real-Time Lung Cancer

- Diagnosis: A Deep Learning Approach with Optimized CNN for CT Scan Analysis" in 6th International Conference on Inventive Research in Computing Applications (ICIRCA 2025) held during 25-27 June 2025

FACULTY FDP/WORKSHOPS ATTENDED:

- Mr.P.Bhaskar, Assistant professor of CSE Department in SREC has completed NPTEL course on "Advanced Computer Networks" from Jan-April 2025.
- Ms.S.Nazia Banu, Assistant Professor of CSE Department has Participated in FDP on "Generative AI and Prompt Engineering" Organized by Khalsa College for Women, Civil Lines, Ludhiana (Punjab), held from 21-04-2025 to 25-04-2025.
- Mr.P.Subba Rao, Assistant Professor of CSE Department in SREC has participated in FDP on "Skill Building for Tomorrow: Research Writing, Wireless Technology & Professional Excellence" organized by Research & Development Cell, Poornima University, Jaipur from 12-05-2025 to 14-05-2025.
- Mrs.M.Anusha, Assistant Professor of CSE Department in SREC has participated in FDP on "Skill Building for Tomorrow: Research Writing, Wireless Technology & Professional Excellence" organized by Research & Development Cell, Poornima University, Jaipur from 12-05-2025 to 14-05-2025.
- Ms.S.Nazia Banu, Assistant Professor of CSE Department has Participated in FDP on "AI Agents" organized by Commissionerate of Collegiate Education (CCE), Government of Andhra Pradesh with Excel Edtech Pvt from 12-05-2025 to 16-05-225.
- Mr.M.Amareswara Kumar, Assistant Professor and Mr.P.Bhaskar, Assistant professor of CSE Department have participated in 6-Day Professional Development Program on "NEP-2020 & EDUCATION 4.0" organized by RGMCET,Nandyal from 16-06-2025 to 25-06-2025

- The following faculty members have participated in One Week National Level Online FDP on **"Cloud Enabled Deep Learning with Enhanced Security Protocols"** held from 23-06-2025 to 27-06-2025.
  - Mrs.M.Anusha,, Assistant Professor
  - Mrs.M.Jayamma, Assistant professor
  - Mrs.O.Bhulakshmi, Assistant Professor
  - Ms.S.Nazia Banu, Assistant Professor
- Mrs. V. Lakshmi Chaitanya, Assistant Professor of CSE Department has participated in FDP on "GEN AI and AGENTIC AI" organized by MIT Academy of Engineering, Alandi, Pune from 09-06-2025 to 27-06-2025.

FACULTY ACHIEVEMENT:

- Mrs.M.Anusha, Assistant Professor of CSE Department in SREC secured 100% pass percentage in the subject "Internet of Things" for the batch of 2022 in III Year-II sem.
- Mrs.M.Sharmila Devi, Assistant Professor of CSE Department in SREC secured 100% pass percentage in the subject "Internet of Things" for the batch of 2022 in III Year-II sem.
- Mrs.M.Jayamma, Assistant Professor of CSE Department in SREC secured 100% pass percentage in the subject "Compiler Design " for the batch of 2022 in III Year-II sem.
- Following faculty members are published a patent on 02-06-2025
  - Dr. S. Md. Farooq, Professor on "INTELLIGENT AGRICULTURAL PRICE FORECASTING USING CNNS ANDMULTIVARIATE DATA FUSION".
  - Mrs.M.Sharmila Devi, Assistant Professor on "AUGMENTING TEXT CLASSIFICATION IN A LANGUAGE AGNOSTICMANNER".
- Following faculty members are published a patent on 13-06-2025
  - Mrs. V.Lakshmi Chaithanya, Assistant Professor on "Deep Learning Enhanced Network Trafic Detection and Classification".
  - Mr.P.Bhaskar, Assistant Professor on "Intelligent Detection and Mitigation of Cloud Security Threats Using Machine Learning Techniques".
- Mr.P.Subba Rao Assistant Professor on "Detecting Jamming Attacks in Wireless Communication Using Machine Learning Models".

STUDENT ACHIEVEMENTS

- N.Harshitha (22X51A0595) participated and stood **first** in Technical Quiz of National Inter-College Crossword Expedition 2025 (NICE 25), held online on www.crypticsingh.com on 01-06-2025.
- P.Somasekhar Reddy (22X51A05A3) participated in the webinar "From Schematic to Success: Unlock PCB Design Secrets" held on 26-04-2025, organized by Sarvagna Innovation Private Limited.
- P.Somasekhar Reddy (22X51A05A3) participated in the webinar " Code, Deploy, Repeat: The DevOps Way " held on 09-05-2025, organized by Sarvagna Innovation Private Limited.
- P.Somasekhar Reddy (22X51A05A3) participated in the webinar "Explore Smart Solutions With AI Tools" held on 13-05-2025,organized by Sarvagna Innovation Private Limited.
- 145 students were done internship in RESHAPP