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 9 | ISSUE 4 | 2023 - 2024



EDITOR IN CHIEF
Dr. K. Murali Babu
Professor
Dept. of CSE

EDITOR
Mrs. L. Ramya
Assistant Professor
Dept. of CSE

STUDENT COORDINATORS
Shaik Majahar
B. Ganesh
A. Gayathri
P. Naga Meghana

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

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Building Technology Driven Future





Dr. M.V. Subramanyam

Principal
Santhiram Engineering College

MESSAGE FROM THE PRINCIPAL

I am happy to present the latest edition of CSE CHRONICLE, the newsletter of the Department of Computer Science and Engineering. This newsletter reflects the steadfast commitment of our students and faculty towards excellence in academics, research, innovation and co-curricular activities. I appreciate the department for providing a platform to showcase their initiatives and achievements. I congratulate the editorial team and thank all the contributors for their efforts in bringing out this edition. I wish CSE CHRONICLE greater success in the future.



Dr. S. Md. Farooq

Professor & HoD
Department of Computer Science & Engineering

MESSAGE FROM THE HEAD OF THE DEPARTMENT

It is a privilege to present this edition of CSE CHRONICLE – The CSE Newsletter, which highlights the academic progress, technical initiatives, research contributions and co-curricular activities of our department. The department continuously strives to nurture student talent, encourage innovation and provide exposure to emerging technologies. I congratulate our students and faculty for their continued hard work and achievements. I also appreciate the editorial team for their dedication in compiling this newsletter. I hope CSE CHRONICLE will continue to inspire and motivate our students towards a brighter future.

CSE CHRONICLE

THE CSE NEWS LETTER



CSE CHRONICLE

NEWS LETTER 2023-24

Department GLANCE

APR 2024 HIGHLIGHTS

TECHNICAL EVENTS

13th National level Student Technical Symposium
ABHINAVA-SIGMA2K24 on 15 April 2024

IDEATHON	PAPER PRESENTATIONS	QUIZ COMPETITION	CRACK THE CODE
75 Students Participated	39 Teams Participated	38 Teams Participated	131 Students Participated

NON-TECHNICAL EVENTS

13th National level Student Technical Symposium
ABHINAVA-SIGMA2K24 on 16 April 2024

DANCE | SINGING | DRAWING | TRENDY HENNA | PHOTOGRAPHY | TREASURE HUNT

PLACEMENTS

103 students from the 2021 batch were successfully placed in reputed companies.

STUDENT ACHIEVEMENTS

INTERNSHIPS / ONLINE COURSES

- **129** students have completed internship.
- **30** students have completed MOOC courses.

FACULTY ACHIEVEMENTS

- **Dr. S. Md. Farooq** – Published a Book Chapter on "Improve Fault Detection and Sensor Routing Problems with Naive Bayes Classifier and Data Aggregation Approach" on 01-05-2024.
- **Mrs. M. Sharmila Devi** – Received appreciation from AICTE – Eduskills Virtual Internship on 05-05-2024.
- **Mr. J. David Sukeerthi Kumar** – Received appreciation from AICTE – Eduskills Virtual Internship on 05-05-2024.
- **Mrs. M. Sharmila Devi** – Qualified for APSET 2024.

NPTEL MOOCs BY FACULTY

- **Mr. P. Bhaskar** – Completed 12 weeks course on "Compiler Design".
- **Mrs. B. Swarajya Lakshmi** – Completed 12 weeks course on "Deep Learning".
- **Mrs. M. Anusha** – Completed 12 weeks course on "INTERNET OF THINGS".
- **Mrs. M. Sharmila Devi** – Completed 12 weeks course on "INTERNET OF THINGS".
- **Mrs. M. Jayamma** – Completed 12 weeks course on "INTERNET OF THINGS".

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.

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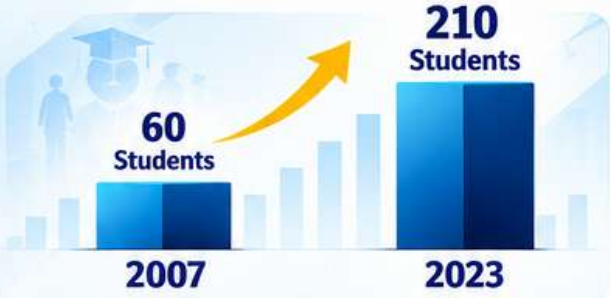


DEPARTMENT PROFILE
COMPUTER SCIENCE AND ENGINEERING

ACADEMIC YEAR 2023 - 2024

01 ESTABLISHMENT & INTAKE

The Department of Computer Science and Engineering was established in **2007** with the commencement of the four-year **B.Tech** programme in Computer Science and Engineering, with an initial intake of **60 students**. In response to the growing demand for Computer Science and Engineering professionals, the intake has been progressively increased to **210 students** in **2023**.



02 FACULTY STRENGTH & EXPERTISE

The Department is supported by **25** highly qualified and dedicated faculty members with expertise in diverse domains, including **Computer Networks**, **Data Mining**, **Network Security**, **Cloud Computing**, and **Artificial Intelligence**. The Department continues to strengthen its academic, industry, and research expertise while providing a supportive environment that promotes professional development and research growth.



03 INDUSTRY INTERACTION & ASSOCIATIONS

The Department maintains strong industry interactions and professional collaborations with organizations such as **IEEE, IE, and ISTE**, fostering research collaboration and facilitating regular academic interactions among faculty and students.

IEEE | THE INSTITUTION OF ENGINEERS (INDIA) IE | ISTE

04 INFRASTRUCTURE & FACILITIES

The Department is equipped with well-established computer laboratories supported by a comprehensive range of software resources. A network of **350 computers** with internet connectivity supports teaching, research, and administrative activities. Additional facilities include projectors for interactive learning and seminars, **UPS** systems for uninterrupted power supply, and air-conditioned laboratories, providing a conducive environment for effective teaching, learning, and research.

- 350 Networked Computers
- Internet Connectivity
- Projectors for Interactive Learning
- Air-Conditioned Laboratories
- UPS for Uninterrupted Power Supply





05 OUR COMMITMENT

With a strong foundation in academics, industry collaboration, research, and advanced infrastructure, the Department of Computer Science and Engineering remains committed to nurturing innovative, industry-ready professionals and empowering students to excel in the rapidly evolving world of technology.



PROGRAMS CONDUCTED:

1) 13th National level Student Technical Symposium ABHINAVA-SIGMA2K24 on April 15,2024.



IDEATHON

The department of CSE Organized a 13th National level Student Technical Symposium ABHINAVA-SIGMA2K24 on April 15,2024.The event organized was IDEATHON-75 Students Participated.

PAPER PRESENTATIONS



The department of CSE Organized a 13th National level Student Technical Symposium ABHINAVA-SIGMA2K24 on April 15,2024.The event organized was Paper Presentations-39 Teams Participated.

QUIZ Competition



The department of CSE Organized a 13th National level Student Technical Symposium ABHINAVA-SIGMA2K24 on April 15,2024.The event organized was Quiz Competition- 38 Teams Participated

CRACK THE CODE



The department of CSE Organized a 13th National level Student Technical Symposium ABHINAVA-SIGMA2K24 on April 15,2024.The event organized was Crack the Code-131 Students Participated.

2)13th National level Student Technical Symposium ABHINAVA-SIGMA2K24 Non Technical Events (Dance, Singing, Drawing, Trendy Henna, Photography, Treasure Hunt) on April 16,2024.



The Department of CSE conducted 13th National level Student Technical Symposium ABHINAVA-SIGMA2K24 Non Technical Events (Dance, Singing, Drawing,Trendy Henna, Photography, Treasure Hunt) on April 16,2024.

Student Achievemnets

INTERNSHIPS /ONLINE COURSES

- 129 students have completed internship.
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PLACEMENTS

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FACULTY ACHIEVEMENTS:

- Dr.S.Md.Farooq Published Book/Chapters "IMPROVE FAULT DETECTION AND SENSOR ROUTING PROBLEMS WITH NAIVE BAYES CLASSIFIER AND DATA AGGREGATION APPROACH" on 1-5-2024
- Mrs.M.Sharmila Devi received appreciation from AICTE - Eduskills Virtual Internship on 5-5-2024.
- Mr.J.David Sukeerthi Kumar received appreciation from AICTE-EDUSKILLS Virtual Internship on 5-5-2024
- Mrs.M.Sharmila Devi qualified for APSET 2024

NPTEL MOOCs BY FACULTY

- Mr.P.Bhaskar , Asst. Prof. has completed a 12 weeks course on “Compiler Design”
- Mrs.B.Swarajya Lakshmi , Asst. Prof. has completed a 12 weeks course on “Deep learning”.
- Mrs.M.Anusha , Asst. Prof. has completed 12 weeks course on “INTERNET OF THINGS”.
- Mrs.M.Sharmila Devi Asst. Prof. has completed 12 weeks course on “INTERNET OF THINGS”.
- Mrs.M.Jayamma, Asst. Prof. has completed 12 weeks course on “INTERNET OF THINGS”.

EDX COURSE COMPLETITON BY FACULTY

- “**Python Basics for Data Science**” offered by IBM, an online learning initiative of IBM.
  - Mr.J.David Sukeerthi Kumar, Assoc prof
  - Mr.P,Bhaskar, Asst. Prof.
  - Mrs. V.Lakshmi Chaitanya, Asst. Prof.
  - Mr.M.Amareswara Kumar, Asst. Prof.
  - Mrs.Sadiya Fathima,Asst.Prof.
- “**Deep Learning with Tensor flow**” offered by IBM, an online learning initiative of IBM.
  - Mrs. V.Lakshmi Chaitanya, Asst. Prof.
  - Mrs.M.Sharmila Devi, Asst. Prof.
- Mrs.M.Anusha, Asst. Prof.has completed a course on **“Introduction to the Internet of Things (IoT)”** offered by IBM, an online learning initiative of IBM
- Mrs.M.Jayamma, Asst. Prof. has completed a course on **“Software Engineering Basics for Everyone”** offered by IBM, an online learning initiative of IBM.

Faculty FDP

- **S. Nazia Banu** participated in a One-Week FDP titled “Ethics Model of Excellence Framework”, organized by Santhiram Engineering College, from 23-04-2024 to 30-04-2024.

- **M. Sharmila Devi** participated in a One-Day Awareness Program on “Awareness on Intellectual Property Rights (IPR)”, organized by the National Intellectual Property Awareness Mission (NIPAM) on 28-03-2024.

- **B. Swarajya Lakshmi** participated in a One-Day Conference titled “Human Behavior Recognition Based on Multi-Scale Neural Network”, organized by Narasimha Reddy Engineering College, Kompally, on 16-04-2024.

- **K. V. Saiphani** participated in a Two-Week International FDP organized by The Oxford College of Engineering, New Delhi**,** from 15-04-2024 to 27-04-2024**.**

Conferences/Journals

➢ Papers Published in International Journal for Research in Applied Science & Engineering Technology, Volume 12, Issue IV, April-2024 with ISSN 2321-9653

- Dr.S.Md.Farooq , Professor entitled with "Iris Unleashed: Revolutionizing Mouse Control through Open CV"
- Dr.S.Md.Farooq , Professor entitled with "A Machine Learning Approach for Early-Stage Autism Spectrum Disorders Detection"
- Mr.P.Bhaskar, Asst. Prof. entitled with "Applied Machine Learning Predictive Analytics to SQL Injection Attack Detection and Prevention"
- Mr.P.Bhaskar, Asst. Prof. etitled with "Optimized Transfer Learning Based Dementia Prediction System for Rehabilitation Therapy Planning"

➢ Papers published in International Journal Of Progressive Research In Engineering Management And Science, Volume 4, Issue 4, April-2024 with ISSN 2583-1062

1. Mr.J.David Sukeerthi Kumar, Assoc. prof. entitled with

- "Air Quality Index Forecasting Via Genetic Algorithm Based Improved Extreme Learning Machine".
- "Iris Recognition Modern Voting System Based On Deep Learning".

2. Mrs.M.Sharmila Devi, Asst. Prof. entitled with

- "Data Balancing And Cnn Based Network Intrusion Detection System".
- "Generating Images From Text Using Deep Learning"

3. Ms.S.Naziya Bhanu, Asst. Prof. entitled with

- "Exploring Learning Analytics Of Skill Based Courses In Online Using Machine Learning Algorithms".
- "Optimizing The Kyc Verification System Using Ethereum Blockchain"

4. Mrs.M.Anusha, Asst. Prof. entitled with

- "Privacy-Preserving On-Screen Activity Tracking And Classification In E-Learning Using Federated Learning".
- Mr.S.Md.Riyaz Naik, Asst Prof. entitled with"State Government Fund Allocation & Tracking System Over Blockchain".
- "Face Recognition Based Attendance System Using Haar Cascade And Local Binary Pattern Histogram Algorithm".
- Mrs. V.Lakshmi Chaitanya, Asst. Prof. entitled "An Intelligent Approach To Improving The Performance Of Threat Detection In Iot".
- "Dsas-A Secure Data Sharing And Authorized Searchable Framework For E-Healthcare System".

5. Mr.K.V. Sai Phani, Asst. Prof. entitled with "Unveiling Dark Patterns On Websites"

➢ Papers Published In Journal Of Engineering, Computing & Architecture,Volume 14, Issue 4, April-2024 with ISSN 1934-7197

➢ Mrs.N.Rama Devi, Asst. Prof. entitled with "IOT Based Smart Door Lock System"

➢ Mr.P.Subba Rao, Asst. Prof. entitled with "Smart Wearable Device For Women Saftey Using IoT "

➢ Mr.P.Subba Rao, Asst. Prof. entitled with "A Bitcoin Transactioin Network Analytic Method For Future Block Chain Forensic Investigatiion"

- Mr.S.Nagendrudu, Asst.Prof. published technical paper in International Journal Of Creative Research Thoughts, Volume 12,

Issue 4, April-2024 with ISSN 2320-2882

1. Privilege Escalation Attack Detection And Mitigation In Cloud Using Machine Learning
2. Security Using Elliptic Curve Cryptography (Ecc) In Cloud

- Mr.M.Amareswara Kumar Asst. Prof. published a technical paper in International Journal Of Engineering & Science Research, Volume14, Issue 2, April-2024 with ISSN 2277-2685 entitled with "EffectiveFeature Engineering Technique For Heart Disease Prediction With Machine Learning"

And a paper entitled with "Secure And Efficient OnlineFingerprint Authentication Scheme Based On Cloud Computing" In International Journal Of Advances In Engineering Architecture Science And Technology, Volume 2, Issue 2, April-2024 with ISSN 2583-7346.

The Following Faculty Members participated and presented technical papers in National Conference on Emerging Trends in Computer Science & Engineering [NCETCSE2K24] organized by Narsimha Reddy Engineering College, Telangana during 14th & 15th July, 2017.

- Mrs.V.Lakshmi Chaitanya entitled "An Improved Design for a Cloud Intrusion Detection System Using Hybrid Feature Selection Approach with ML Classifier".
- Mrs.B. Swarajya Lakshmi, entitled "HUMAN BEHAVIOUR RECOGNITION BASED ON MULTISCALE CONVOLUTIONAL NEURAL NETWORK"
- Mr.M.Amareswara Kumar, entitled "E-voting using facial recognition system"
- Mr.P.Subba Rao, entitled "GUARDIAN OF USER EXPERIENCE : DEVELOPING A COMPREHENSIVE DARK PATTERNS BUSTER EXTENSION"
- Mr.P.Subba Rao, entitled "Facial Paralysis severity detection using Transfer Learning and Artificial Intelligence"
- Mr.P.Bhaskar, entitled "Exploring Deep Learning solutions for detecting deep fakes in multimedia"