SANTHIRAM ENGINEERING COLLEGE (AUTONOMOUS)

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

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TECHNEX

THE CSE MAGAZINE

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ACADEMIC YEAR 2025-2026 | VOLUME 11 | ISSUE 2



Innovate. Integrate. Inspire.
Code the Future.

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SANTHIRAM ENGINEERING COLLEGE

(Autonomous)

Nandyal, Andhra Pradesh, India

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THE CSE MAGAZINE

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MESSAGES

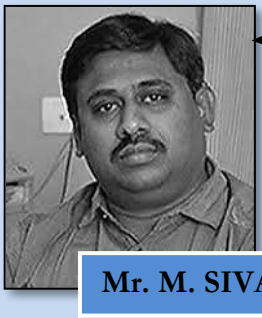
CHAIRMAN'S MESSAGE



Dr. M. SANTHIRAMUDU

It is my pleasure to note that the Department of Computer Science & Engineering, Santhiram Engineering College (Autonomous) is publishing its Half-Yearly Magazine, **TECHNEX**, for the eleventh consecutive year. The magazine provides an effective platform to showcase technical expertise, creativity, innovation, and academic achievements. I appreciate the contributions of the Principal, faculty, editorial team, and students in promoting a culture of technological excellence and continuous learning. I wish TECHNEX continued success and greater accomplishments in the years ahead.

MANAGING DIRECTOR'S MESSAGE



Mr. M. SIVARAM

It is a pleasure to see the publication of TECHNEX, the CSE Half-Yearly Magazine for the academic year 2025–2026. It provides a valuable platform for presenting technical knowledge, innovative ideas, creativity, and academic achievements. I commend the editorial team and magazine committee for their dedicated efforts. May TECHNEX continue to inspire innovation, intellectual growth, and professional excellence among students and faculty.

PRINCIPAL'S MESSAGE



Dr. M. V. SUBRAMANYAM

It is gratifying to witness the continued growth of the Department of CSE at SREC as a center of academic and technological excellence. TECHNEX effectively showcases the knowledge, innovations, achievements, and technical contributions of students and faculty. I wish TECHNEX continued success in promoting a culture of innovation and excellence.

H.O.D'S MESSAGE



Dr.S.MD.FAROOQ

I congratulate the editorial team, faculty, and students for their dedicated efforts in bringing out TECHNEX. This edition reflects our commitment to technical excellence, innovation, research, and academic achievement. May TECHNEX continue to inspire continuous learning and technological innovation. I wish the team continued success in future editions.

Department profile

Recognizing the growing demand for computer science professionals, the Institute established the four-year B.Tech. programme in Computer Science and Engineering in 2007 with an initial intake of 60 students. The intake has progressively increased to 300 students in 2024, reflecting the department's sustained academic growth and development.

The Department of CSE has a team of 43 highly qualified and committed faculty members with extensive teaching experience and expertise across diverse technological domains, including Computer Networks, Data Mining, Network Security, Cloud Computing, and Artificial Intelligence. The department continuously strengthens its academic and research capabilities by engaging faculty with expertise in academia, industry, and research, supported by advanced research facilities.

The Department maintains strong industry–academia interaction with reputed organizations and professional bodies such as IEEE, IE, and ISTE. These collaborations facilitate research partnerships, knowledge exchange, technical activities, and continuous interaction among faculty and students, promoting professional and technological excellence.

The Department is equipped with well-established computer laboratories and comprehensive software infrastructure supporting a wide range of academic and technical applications. A network of approximately 700 computers with internet connectivity facilitates teaching, learning, research, and administrative activities. All classrooms are equipped with smart boards, enabling interactive instruction, multimedia-based content delivery, and technology-enhanced learning. The laboratories are equipped with projectors to support technical demonstrations, seminars, and multimedia-based instruction. UPS systems ensure uninterrupted power backup, while air-conditioned laboratories provide a comfortable and technology-enabled environment for effective learning and practical training.

With its strong academic foundation, experienced faculty, advanced infrastructure, and industry–academia collaboration, the Department is committed to developing innovative, technically proficient, and industry-ready professionals equipped to address emerging technological challenges.

DEPARTMENT VISION

To become a center for quality education in the field of computer science & engineering and to create competent professionals.

Department Mission

1. To provide academic ambience and latest software tools to prepare competent Software Engineers with strong theoretical and practical knowledge.
2. To foster professionalism and strong work ethics in students for the betterment of society.
3. To uplift innovative research in Computer Science and Engineering to serve the needs of Industry, Government and Society
4. To encourage the spirit of entrepreneurship and adaptability in our students in view of the ever-changing scenario of the Software Industry.

ARTICLES

FACULTY ARTICLE

Post-Quantum Cryptography: Securing the Digital Future

Post-Quantum Cryptography (PQC) is an emerging cyber security technology designed to protect digital information against attacks from both classical and future quantum computers. Powerful quantum computers could potentially break widely used encryption methods such as RSA and elliptic-curve cryptography, creating new challenges for data security.

PQC uses advanced mathematical algorithms that run on conventional computers to provide quantum-resistant security. It has applications in online banking, cloud computing, digital signatures, healthcare, and secure communications. The National Institute of Standards and Technology (NIST) has standardized important algorithms, including ML-KEM, ML-DSA, and SLH-DSA.

Although migration to PQC involves challenges such as compatibility, performance, and implementation costs, it is an important step toward future-ready cyber security.

Post-Quantum Cryptography is not just a response to future threats, it is an investment in a safer and more secure digital world.

Mr.P.Subba Rao
Assistant Professor

STUDENT ARTICLE

Digital Twins: Connecting the Real World with the Digital World

Introduction

In today's rapidly developing technological world, digital innovation is transforming industries, education, healthcare, and transportation. One of the emerging technologies attracting attention is Digital Twin Technology. It creates a virtual representation of a real-world object, system, or process, helping people monitor performance, analyze problems, and improve efficiency without directly experimenting on the physical system.

What Is Digital Twin Technology?

A digital twin is a virtual model of a physical object or system that uses real-time or periodically updated data to represent its condition and behavior. Sensors, the Internet of Things (IoT), Artificial Intelligence (AI), and data analytics can work together to create and update these digital models.

For example, a digital twin of a college building can represent its electrical systems, water usage, temperature, and energy consumption. By analyzing this information, administrators can identify problems, reduce energy waste, and plan maintenance before equipment fails.

Applications of Digital Twin Technology

Applications:

- Healthcare: Digital models can help researchers study organs and support personalized treatment planning.
- Manufacturing: Factories can monitor machines, predict equipment failures, and improve production efficiency.
- Smart Cities: Digital twins can help manage traffic, monitor infrastructure, and optimize energy consumption.
- Education: Students can explore virtual models of engineering systems and understand complex concepts through practical simulations.
- Transportation: Digital twins can support vehicle performance analysis, maintenance planning, and traffic management.
- Agriculture: Farmers can use digital models and sensor data to monitor soil conditions, irrigation, and crop growth.

Benefits and Challenges

Digital twins help organizations monitor systems, test different scenarios, reduce maintenance costs, and make informed decisions. They also provide opportunities for safer experimentation and better resource management.

However, this technology has certain challenges, including high implementation costs, data privacy concerns, cyber security risks, and the need for accurate real-world data. A digital twin is only as reliable as the data and models used to build it.

Conclusion

Digital twin technology is an important development that connects physical systems with digital intelligence. By combining IoT, AI, simulation, and data analytics, it helps people understand and improve real-world systems. Although challenges remain, digital twins have the potential to make industries smarter, cities more efficient and engineering education more practical.

Deepthi
IV - CSE

DEPARTMENT CONDUCTED PROGRAMS

1. A One Day Program on "AAROHA 2K26"



The Department of CSE conducted a One Day Program on "AAROHA 2K26" organized on 05-01-2026 for All CSE students.

2. A 25 Days Workshop on Cyber Security-Hack Tech.



JNTUA sponsored a five-day Faculty Development Programme (FDP) titled "AI Foundations and Intelligent Systems: Exploring Artificial Intelligence & Machine Learning" organized from 06-01-2026 to 10-01-2026. The program hosted faculty members from various departments and organizations across the region. Dr. Ratna Kumari Challa (IIIT–A.P., RGUKT, RK Valley, Dr. Nagaraju K & Dr. K. Sathya Babu (IITDM Kurnool), Dr. S. Viswanadha Raju (Principal & Senior Professor, JNTUH UCE, Jagtial), Dr. C. Nagaraju (Yogi Vemana University), Dr. K. V. Subbareddy (General Manager, IITTNIF, IIT Tirupati), Industry Experts: Mr. D. Sai Sateesh (CEO, Indian Servers), Mr. M. Deva Nagendra (CEO, ReshApp), Mr. Baradwaj Arvapally (Founder, AB Tech Ville), and Mr. Dinesh Kumar Balki (AI Generalist, Brain O Vision) acted as a resource persons for this program.

3. A One Day Awareness Programme on “Artificial Intelligence & Concepts, Applications & Ethics”



A one-day Awareness Programme on “Artificial Intelligence & Concepts, Applications & Ethics” organized on 08-01-2026 for III-CSE students Mr. M.Deva Nagendra, Chief Executive Officer of ReshApp Software Solutions Pvt. Ltd acted as a resource person for this program

4) A One Day Seminar on “AGENTIC AI IN PRACTICE”



A one-day Seminar on “AGENTIC AI IN PRACTICE” in Association with SREC IEEE Student Branch STB17901 and IEEE Computer Society SBC17901B organized on 09-01-2026 for II-CSE students. Mr. Baradwaj Arvapally, Founder, ABTech Ville acted as a resource person for this program

5.A one-day Technical Seminar on “IoT and Smart Technologies”



A One Day Technical Seminar on IoT and Smart Technologies in association with IEEE Student Branch STB17901 and IEEE Robotics & Automation Society SBC17901A organized on 09-01-2026 for II-CSE students. Mr. Dinesh Kumar Balki, AI Generalist – Brain-o-vision acted as a resource person for this program

6. A One-Day Faculty Development Program on “MASTERING THE ART OF RESEARCH”



A One-Day Faculty Development Program on “MASTERING THE ART OF RESEARCH” in association with the SREC IEEE Student Branch (STB17901) and IEEE Computer Society (SBC17901B), organized on 21-01-2026 for faculty members of various department of different organizations. Dr. K. Sathya Babu professor of IITDM Kurnool acted as a resource person for this program.

7. A One Day awareness program on “FROM DATA TO IMPACT: INTRODUCTION TO CELONIS AND CAREER PATHWAY TO PROCESS INTELLIGENCE”



A One Day awareness program on “FROM DATA TO IMPACT: INTRODUCTION TO CELONIS AND CAREER PATHWAY TO PROCESS INTELLIGENCE” organized on 22-01-2026 for III-CSE students. Mr. Nagur Pasha Shaik- Associate Consultant EY acted as a resource person for this program

8 A One Week Hands-on Workshop on “Integrating AI, Image Analysis & Generative AI for Next Generation Applications"



A One Week Hands-on Workshop on “Integrating AI, Image Analysis & Generative AI for Next Generation Applications" in association with IEEE Students Branch & Computer Society organized from 02-02-2026 to 07-02-2026 for III-CSE students. Mr.D.Sai Sateesh, CEO, Indian Servers acted as a resource person for this program.

9. A One Day Seminar on “Employability in the AI Era: Skills and Mindsets to Enable Succes



A One Day Seminar on “Employability in the AI Era: Skills and Mindsets to Enable Success” organized on 06-02-2026 for II-CSE students. Ms. Bhavna Batra, Vice President – People, S&P Global acted as a resource person for this program.

10. A one-day career development program on “Future Ready Careers: Staying Relevant in an AI-Driven World”



A one-day career development program on “Future Ready Careers: Staying Relevant in an AI-Driven World” organized on 12-02-2026 for II-CSE students. Mr. Abhishek Singh, Head of HR, Red Doorz acted as a resource person.

11. “Designing Intelligent Humanoids: A Five-Days Practical AI Robotics Workshop”



The Department of CSE conducted “Designing Intelligent Humanoids: A Five-Days Practical AI Robotics Workshop” in association with SREC IEEE Student Branch STB17901 and IEEE Robotics & Automation Society SBC17901A organized from 02-03-2026 to 06-03-2026 for II-CSE students. K. Sundeep, Business Manager, EDUBOTICS acted as a resource person for this program

12. “Next-Gen Robotics: A Five-Days Hands-On Workshop on AI Powered Humanoid Robots”



Five -day workshop on “Next-Gen Robotics: A Five-Days Hands-On Workshop on AI Powered Humanoid Robots” in Association with SREC IEEE Student Branch STB17901 and IEEE Computer Society SBC17901B organized from 09-03-2026 to 13-03-2026 for II-CSE students. K. Sundeep, Business Manager, EDUBOTICS acted as a resource person for this program

STUDENT ACHIEVEMENTS

➢ Nichenametla Harshitha (Register Number: 22X51A0595), a final-year Computer Science and Engineering (CSE) student, is currently undergoing a three-month internship at Qualizeal Technologies Pvt. Ltd., Hyderabad, from 27-01-2026 to 27-04-2026.

➢ The Following Students are active participation in Generative AI for Next Generation Innovators -AI Techniques for Smart Engineering System workshop, jointly organized by Department of Electronics and Communication Engineering, IEEE Sensors Council & IEEE CIS/GRSS Joint Chapter Hyderabad Section in association with IEEE GPREC during 16-02-2026 to 18-02-2026 at G.Pulla Reddy Engineering College (Autonomous), Kurnool.

- TRK Anudeep (24X51A05V5)
- Y Praveen Kumar Reddy (24X51A05X7)
- Y Vikram Raj (24X51A05Y6)

➢ The Following Students are Participated in the event of TECH QUIZ conducted as a part of "Trends Recent Advances in civil Engineering (TRACE)-2K26(RIPPLE)" organized by the Department of Civil Engineering under Civil Clubs, held on 27-02-2026 to 28-02-2026.

- Shaik Muhammed Thoufiq (24X51A05S9)
- Shaik Murthujavali (24X51A05T0)
- Pittala Madana Mohan (24X51A05T1)
- Shaik Sabeer (24X51A05T6)
- Yanamala Himavanth Kumar (24X51A05Z0)
- Chakali Tarun (23X51A0535)
- Mallari Siva Sai (23X51A05D2)
- Shaik Mahammad Ali (21X51A0598)

➢ B. Anjani Pranitha (23X51A0514) and B. Supraja (23X51A0519) participated and secured First Prize in the Webverse Hackathon at SV College of Engineering, Tirupati, held from 06-03-2026 to 07-03-2026.

➢ P. Charitha (24X51A05L8) participated and secured Second Prize in Paper Presentation at Tarang – A National Level Technical Fest & Higher Education Expo, held at SRIT, Ananthapur, on 13-03-2026.

➢ P.Parthivu Reddy (23X51A05K7) P.Ganesh (23X51A05H6) and S.Althaf(24X55A0519) participated and stood as a runner in Hackathon at Tarang a National Level Technical Fest & HigherEducation Expo held at SRIT Ananthapur on 13-03-2026.

➢ The S Surekha (23X51A05I2),N Vasanthi (23X51A05F3),PS Deepika (23X51A05H2),N Sujatha (23X51A05F4),P Noorjahan (23X51A05H1),K Akshaya Kumari (23X51A05C0),D Shaheen (24X51A0575)students participated in the National Level Hackathon - "AMPATHON-2026", organized by the Department of Electrical & Electronics Engineering, Annamacharya University Rajampet, sponsored by the IEEE PES/PELS/IAS Hyderabad section Joint chapter. held on 13.03.2026 To 14.03.2026.

➢ M. Hema Charan (23X51A05C9) participated and secured First Prize in the Singing event at Dillana 2K26 – A Two-Day National Level Technical & Cultural Fest, held at SVEC, Nandyal, from 13-03-2026 to 14-03-2026.

➢ GAMES & SPORTS MEET:

➢ The following students secured top positions in the 13th JNTUA Inter-Collegiate Games Meet (Men & Women), sponsored by JNTUA and organized by RGMCET, Nandyal, held from 10-01-2026 to 12-01-2026.

- P. Uday Kiran (23X51A05H0) and P. Parthivu Reddy (23X51A05K7) secured 1st place (Winners) in Ball Badminton.
- T. Sreelatha (24X51A05V3) secured 2nd place (Runner-up) in Ball Badminton.
- T. Venkateswari (23X51A05L7) and P. Swetha (24X51A05A5) secured 2nd place (Runner-up) in Rugby.

➢ The following students participated in the 13th JNTUA Inter-Collegiate Games Meet (Men & Women), sponsored by JNTUA and organized by RGMCET, Nandyal, held from 10-01-2026 to 12-01-2026:

- R. Vishnu Vardhan (24X51A05P6), T. Deevan Kumar (23X51A0582), and N. Shashidhar (23X51A05F6) participated in Football.
- B. Ravi Kumar (25X55A0531), J. Prasad (24X51A05N7), S. Sagar (24X51A05U6), and S. Balaji (25X51A05B7) participated in Volleyball.
- B. Kalavathi (22X51A0511), J. Archana (22X51A0547), V. Haseena (22X51A05F0), V. Husena (22X51A05F1), T. Venkateswari (23X51A05L7), T. Lavanya (24X51A05W2), and N. Sravanthi (25X51A05G1) participated in Throwball.
- A. Madhu Kumar (23X51A0501), B. Ravi Shankar (24X55A0503), B. Gangadhar (24X51A0539), C. Linga Vardhan (24X51A0549), and N. Kumar (24X51A05C2) participated in Kabaddi.

➢ Madhu Kumar (23X51A0501) and N. Kumar (24X51A05C2) participated in the Kabaddi event under the Sports category at QISFEST 2026 – A National Level Students Meet, held from 06-02-2026 to 09-02-2026 and organized by QIS Educational Institutions.

➢ K.Rangaswamy (23X51A05I0), C. Srinivasulu (23X51A0540) and R.Vishnu Vardhan(24X51A05P6) and M.Shankar Reddy(24X51A05G3) Participated in the event CRICKET organized at the National Sports Fiesta VITOPIA 2026 held at VIT-AP University from 11-02-2026 to 17-02-2026.

PLACEMENTS:

❖ 128 students from the 2022 batch were successfully placed in various reputed companies.

S.NO	NAME OF THE COMPANY	SELECTED STUDENTS	SALARY PACKAGE	DESIGNATION
1	JOACATO	7	5.00LPA	ASSOCIATE BUSINESS ANALYST
2	HCL TECHNOLOGIES	12	4.25 LPA	GRADUATE ENGINEER TRAINEE
3	COGNIZANT	18	4.00 LPA	PROGRAMMER ANALYST TRAINEE
4	CTRLS	6	4 LPA	ASSOCIATE ENGINEER
5	ONDEVICE	14	3.60 LPA	INTERN
6	INFOSYS	21	3.60 LPA	SYSTEMS ENGINEER TRAINEE
7	INFOSPOKE	6	3.50 LPA	SOFTWARE ENGINEER
8	TECHOUTS	2	3.50 LPA	SOFTWARE ENGINEER
9	TCS	12	3.36 LPA	ASSISTANT SYSTEM ENGINEER-TRAINEE
10	TECHMAHINDRA	5	3.25 LPA	ASSOCIATE SOFTWARE ENGINEER
11	EVRY	9	3.00 LPA	TRAINEE SOFTWARE ENGINEER
12	24/7 AI	10	3.00 LPA	DIGITAL ANALIST
13	POLOSOFT	6	3.00 LPA	GIS ENGINEER
	TOTAL	**128**	**467.57/128= 3.65 LPA**	

Department/Faculty Achievements

FACULTY ACHIEVEMENTS:

- . Dr. S. Md. Farooq, Professor, has achieved following achievements
  - submitted application under the ISTE—BNY Knowledge Enhancement Programme to conduct a One Week Faculty Development Program (FDP) titled "Building Intelligent Agentic AI Systems using Python and Large Language Models."
  - submitted the proposal for conducting a One-Day ISTE Workshop titled "Practical Implementation of Agentic A1 using Large Language Models."
  - Acted as a faculty Mentor for National Level Hackathon - "AMPATHON-2026", organized by the Department of Electrical & Electronics Engineering, Annamacharya University Rajampet, sponsored by the IEEE PES/PELS/IAS Hyderabad section Joint chapter held from 13-03-2026 To 14-03-2026.
- Mrs.V.Lakshmi Chaitanya, Associate Professor elected as a Reviewer in the 2nd International Conference on Sustainable Smart Computing and Communications (ICSSCC 2026), organized by School of Computer Science and Engineering, Dr. Vishwanath Karad MIT World Peace University, Pune, India and Technically Sponsored by MG Aricent Educational Foundation, Nashik, India on March 13th & 14th, 2026 (Hybrid Mode).
- Mr.KV Sai Pani, Assistant has secured admission into the Ph.D. program at Dr. M.G.R. Educational and Research Institute (Deemed to be University), Chennai, Tamil Nadu.
- The following faculty members have been inducted as professional members of the Institute for Educational Research and Publication (IFERP).
  - Mr.P.Bhaskar, Associate Professor
  - Mrs.V.Lakshmi Chaitanya, Associate Professor,
  - Mrs. M. Sharmila Devi, Associate Professor
  - Mr.S.Nagendrudu, Assistant Professor
  - Mr.M.Amareswara Kumar, Assistant Professor
  - Mr.P.Subba Rao, Assistant Professor
  - Mr.K.V.Saiphai , Assistant Professor
  - Ms.S.Nazia Banu, Assistant Professor
  - Mr. P V Jagadeeswara Prasad, Assistant Professor
  - Mrs.M.Anusha, Assistant Professor
  - Mrs.M.Jayamma, Assistant Professor
  - Mrs.O.Bhulakshmi, Assistant Professor
  - Mr.S.K.Giriraju, Assistant Professor
  - Mr.A.V.Subbaiah, , Assistant Professor
  - Mr. B. Khasim, Assistant Professor
  - Mr.T.Mahesh Mithra, Assistant Professor
  - Mr.T.M.Ramesh, Assistant Professor
- Dr. S. Md. Farooq, Professor, has achieved following achievements
  - Appointed as a Reviewer for the 2026 International Conference on Sustainable A1 for Social Impact and Global Development (SASIGD), held on 13-14 August 2026 at Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad, India.
  - Appointed as a member of the Department Advisory Committee for the AI&ML Department at Stanley College of Engineering and Technology for Women (Autonomous), approved by AICTE and affiliated with Osmania University, in June 2026.
- Mrs.V.Lakshmi Chaitanya, Associate Professor has achieved following achievements appointed as a Reviewer and completed 2 reviews in the 12th International Conference on Communication and Signal Processing ICCSP 2026.
- Mrs. M.Jayamma, Assistant Professor successfully completed the NPTEL Online Certification course titled "Advanced Computer Networks" (Elite), conducted under NPTEL/SWAYAM, during January–April 2026 (12-week course).

FACULTY ATTENDED JOURNALS / CONFERENCES / WORKSHOPS/FDP/PATENTS

CONFERENCES/JOURNALS

FACULTY PUBLICATIONS:

- Dr. S. Md. Farooq, Professor, published a research paper titled "Skill-Centric Career Path Optimization through Machine Learning Models" in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN March 2026, Kathmandu University, Dhulikhel, Nepal). DOI: 10.1109/ICIPCN67432.2026.11438415.
- Mr.S.Md.Riyaz Naik, Associate Professor, published a research paper titled "SVM-Based AI Framework for Disaster Forecasting and Search & Rescue" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL March 2026, Mid-West University, Birendranagar, Nepal). DOI: 10.1109/ICSADL67539.2026.11451836
- Mrs. V. Lakshmi Chaitanya, Associate Professor, published following research papers
  - Titled "Detecting Multi-Stage Persistent Attacks in Enterprises Using RANK-E, an Explainable Decision Tree AI" in the International Conference on AI-Driven Smart Systems and Ubiquitous Computing (ICAUC March 2026, Shinawatra University, Thailand in association with S.E.A College of Engineering and Technology, Bengaluru, Karnataka).DOI: 10.1109/ICAUC68182.2026.11441117.
  - Titled "Smart Botnet Detection in IoT Using Stacked Neural Networks" in the International Conference on AI-Driven Smart Systems and Ubiquitous Computing ICAUC March 2026, Shinawatra University, Thailand in association with S.E.A College of Engineering and Technology, Bengaluru, Karnataka).DOI: 10.1109/ICAUC68182.2026.11440982
- Mr.P.Bhaskar, Associate Professor, published the following research papers
  - Titled "Credit Card Fraud Detection Using Machine Learning and Behavioral Pattern Analysis" in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN March 2026, Kathmandu University, Dhulikhel, Nepal). DOI: 10.1109/ICIPCN67432.2026.11438686
  - Titled "Flood Prediction using Machine Learning" in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN March 2026, Kathmandu University, Dhulikhel, Nepal). DOI: 10.1109/ICIPCN67432.2026.11438588
- Mr.M.Amareswara Kumar, Assistant Professor, published the following research papers
  - Tilted "An Artificial Intelligent (AI) Automated Compliance Framework for Securing Critical Infrastructure" in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN March 2026, Kathmandu University, Dhulikhel, Nepal). DOI: 10.1109/ICIPCN67432.2026.11438573
  - Titled "Biometric-based Online Voting System using MERN Stack" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL March 2026, Mid-West University, Birendranagar, Nepal). DOI: 10.1109/ICSADL67539.2026.11452032
  - Titled "Efficient Human Behavior Recognition using a Multiscale CNN with Hybrid Learning Integration" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL March 2026, Mid-West University, Birendranagar, Nepal). DOI: 10.1109/ICSADL67539.2026.11451972
  - Tilted "Traffic Incidents Detection using Machine Learning Techniques" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL March 2026, Mid-West University, Birendranagar, Nepal). DOI: 10.1109/ICSADL67539.2026.11451787

  - Tilted "Explainable Multi-Feature Deep Learning Framework for Real-Time Counterfeit Currency Detection Across Multi-Denomination Banknotes" in the 8th International Conference on Intelligent Sustainable Systems (ICISS March 2026, SCAD College of Engineering and Technology).DOI: 10.1109/ICISS67859.2026.11454071

- Mrs. M. Sharmila Devi, Associate Professor, published following research papers
  - Titled “A Hybrid Deep Learning and Optimization-based Framework for Real-Time Cyber Threat Detection in Network and IoT Environments” in the International Conference on AI-Driven Smart Systems and Ubiquitous Computing (ICAUC March 2026, Shinawatra University, Thailand in association with S.E.A College of Engineering and Technology, Bengaluru, Karnataka). DOI: 10.1109/ICAUC68182.2026.11441119
  - Titled “Enhancing Security and Reliability in IIoT-SCADA Networks Through Integrated PRU and Decision Tree Models” in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL March 2026, Mid-West University, Birendranagar, Nepal). DOI: 10.1109/ICSADL67539.2026.11452113
  - Titled “Deepfake Image Forensics using Transfer Learning” in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL March 2026, Mid-West University, Birendranagar, Nepa). DOI: 10.1109/ICSADL67539.2026.11452081
- Mr.KV Sai Pani, Assistant Professor, published a research paper titled “Leveraging XCBoost and Hyper parameter Optimization to Boost Telemarketing Success “ in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN March 2026, Kathmandu University, Dhulikhel, Nepal). DOI: 10.1109/ICIPCN67432.2026.11438609
- Dr. Farooq Sunar Mahammad, Professor, published the following research papers:
  - "An Explainable NASNet Architecture for Reliable Detection and Interpretation of Synthetic Images" in the 9th International Conference on Inventive Computation Technologies (ICICT-2026), indexed in Scopus (June 2026).
  - "Skill-Centric Career Path Optimization through Machine Learning Models" in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN-2026), organized by Kathmandu University, Dhulikhel, Nepal, indexed in Scopus (April 2026).
- Mrs. V. Lakshmi Chaitanya, Associate Professor, published following research papers:
  - “Smart Botnet Detection in IoT using Stacked Neural Networks” in the International Conference on AI-Driven Smart Systems and Ubiquitous Computing (ICAUC-2026), organized by Shinawatra University, Thailand, in association with S.E.A. College of Engineering and Technology, Bengaluru, Karnataka, India, indexed in Scopus (May 2026).
  - “Detecting Multi-Stage Persistent Attacks in Enterprises Using RANK-E, an Explainable Decision Tree AI” in the International Conference on AI-Driven Smart Systems and Ubiquitous Computing (ICAUC-2026), organized by Shinawatra University, Thailand, in association with S.E.A. College of Engineering and Technology, Bengaluru, Karnataka, India, indexed in Scopus (May 2026).
  - “A Scalable Intrusion Detection Framework for Industrial IoT using Distributed DNNs and Extreme Learning Machines” in the International Conference on Intelligent Computing and Control Systems (ICICCS-2026), indexed in Scopus (June 2026).
- Mr. S. Md. Riyaz Naik, Associate Professor, published a research paper titled “SVM-based AI Framework for Disaster Forecasting and Search & Rescue” in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL-2026), organized by Mid-West University, Birendranagar, Nepal, indexed in Scopus (April 2026).
- Mr. P. Bhaskar, Associate Professor, published following research papers:
  - “Credit Card Fraud Detection Using Machine Learning and Behavioral Pattern Analysis” in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN-2026), organized by Kathmandu University, Dhulikhel, Nepal, indexed in Scopus (April 2026).
  - “Flood Prediction using Machine Learning” in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN-2026), organized by Kathmandu University, Dhulikhel, Nepal, indexed in Scopus (April 2026).
  - “Advanced Generative Adversarial Network-Based Image Augmentation for Agricultural Applications using Convolutional Neural Networks” in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL-2026), organized by Mid-West University, Birendranagar, Nepal, indexed in Scopus (April 2026).
  - “Comparative Analysis of Deep Learning Models for IoT Botnet Detection: CNN, LSTM, RNN, and ACLR” in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL-2026), organized by Mid-West University, Birendranagar, Nepal, indexed in Scopus (April 2026).

- Mrs. M. Sharmila Devi, Associate Professor, published following research papers:
  - "Enhancing Security and Reliability in IIoT-SCADA Networks Through Integrated PRU and Decision Tree Models" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL-2026), organized by Mid-West University, Birendranagar, Nepal, indexed in Scopus (April 2026).
  - "Deepfake Image Forensics using Transfer Learning" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL-2026), organized by Mid-West University, Birendranagar, Nepal, indexed in Scopus (April 2026).
  - "A Hybrid Deep Learning and Optimization-Based Framework for Real-Time Cyber Threat Detection in Network and IoT Environments" in the International Conference on AI-Driven Smart Systems and Ubiquitous Computing (ICAUC-2026), organized by Shinawatra University, Thailand, in association with S.E.A. College of Engineering and Technology, Bengaluru, Karnataka, India, indexed in Scopus (May 2026).
  - "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), indexed in Scopus (June 2026).
- Mr. M. Amareswara Kumar, Assistant Professor, published following research papers:
  - "An Artificial Intelligent (AI) Automated Compliance Framework for Securing Critical Infrastructure" in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN-2026), organized by Kathmandu University, Dhulikhel, Nepal, indexed in Scopus (April 2026).
  - "Biometric-based Online Voting System using MERN Stack" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL-2026), organized by Mid-West University, Birendranagar, Nepal, indexed in Scopus (April 2026).
  - "Traffic Incidents Detection using Machine Learning Techniques" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL-2026), organized by Mid-West University, Birendranagar, Nepal, indexed in Scopus (April 2026).
  - "Explainable Multi-Feature Deep Learning Framework for Real-Time Counterfeit Currency Detection across Multi-Denomination Banknotes" in the 8th International Conference on Intelligent Sustainable Systems (ICISS-2026), Tirunelveli, India, indexed in Scopus (May 2026).
  - "Efficient Human Behavior Recognition using a Multiscale CNN with Hybrid Learning Integration" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL-2026), organized by Mid-West University, Birendranagar, Nepal, indexed in Scopus (May 2026).
- Mr. P. Subba Rao, Assistant Professor, published a research paper titled "A Robust ACLR Hybrid Approach for Real-Time Botnet Threat Detection in IoT Devices" in the 5th International Conference on Sentiment Analysis and Deep Learning (ICSADL-2026), organized by Mid-West University, Birendranagar, Nepal, indexed in Scopus (April 2026).
- Mr. K. V. Sai Phani, Assistant Professor, published a research paper titled "Leveraging XGBoost and Hyperparameter Optimization to Boost Telemarketing Success" in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN-2026), organized by Kathmandu University, Dhulikhel, Nepal, indexed in Scopus (April 2026).
- Ms. S. Nazia Banu, Assistant Professor, published a research paper titled "A Comparative Study of Start-Up Success Prediction with Random Forest and Traditional Models" in the Second International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI-2026), indexed in Scopus (June 2026).
- Mrs. O. Bhulakshmi, Assistant Professor, published a research paper titled "Integrating Gradient Boosting with Convolutional and Deep Neural Networks for Advanced Image and Object Detection" in the 6th International Conference on Image Processing and Capsule Networks (ICIPCN-2026), organized by Kathmandu University, Dhulikhel, Nepal, indexed in Scopus (April 2026).

FACULTY CONFERENCES:

- Dr. S. Md. Farooq, Professor, has successfully presented the research paper titled" Ethereum-Based Land Transaction Management with CNN2D-Powered Fraud Detection" in the 3rd International Conference on Machine Learning and Autonomous Systems (ICMLAS 2026) organized by Stamford International University
Bangkok, Thailand from 11-03-2026 to 13-03-2026.
- Mrs. V. Lakshmi Chaitanya, Associate Professor, has successfully presented the following research papers
  - Titled "Gynecological Disorder Detection: An Intelligent Using Machine Learning Algorithm and NLP technique" in the 3rd International Conference on Machine Learning and Autonomous Systems (ICMLAS 2026) organized by Stamford International University Bangkok, Thailand from 11-03-2026 to 13-03-2026.
  - Titled "Adaptive Bayesian Learning of Poisson Gaussian Quantum Noise in Continuous Variable Channels" in the International Conference on Signal Processing and Artificial Intelligence (ICSPA 2026) organized by Tagore Institute of Engineering and Technology, Affiliated to Anna University, Chennai from 27-03-2026 to 28-03-2026.
  - Titled "A Scalable Intrusion Detection Framework for Industrial IoT using Distributed DNNs and Extreme Learning Machines" in the International Conference on Intelligent Computing and Control Systems (ICICCS 2026) organized by Nandha Engineering College, Erode, India from 16-03-2026 to 18-03-2026.
- Mrs. M. Sharmila Devi, Associate Professor, has successfully presented the following research papers
  - Titled "CNN2D-based Deep Learning Framework for IoT Cyberattack Detection with CICAPT-II0T" in the 2nd International Conference on Visual Analytics and Data Visualization (ICVADV-2026) organized by the Department of ECE, Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, from 24-02-2026 to26-02- 2026.
  - Titled" Cost Aware Large Language Models for Structured Test Generation" in International Conference on Wireless Sensor Networks, Ubiquitous Computing and Applications (ICWSNUCA-2026) Springer organized by Department of CSE, Gokaraju Lailavathi Engineering College, Hyderabad, India from 20-02-2026 to 21-02-2026.
- Mrs.M.Anusha, Assistant Professor, has successfully presented the following research papers
  - Titled "Deep Learning-Based Multi-Disease Detection from X-Ray Images" in the DST ANRf sponsored" 2026 IEEE contemporary computing Innovations conference-(CCIC 2026)". #68129, Technically cosponsored by IEEE Region 10, organized by Department of Data Science, school of Computing, Mohan Babu University, Tirupati, Andhra Pradesh, from 06-02-2026 to 07-02-2026.
  - Titled "AI-Powered Interview Preparation Coach" in 3rd International Conference on Machine Learning and Autonomous Systems (ICMLAS 2026) organized by Stamford International University Bangkok, Thailand from 11-03-2026 to 13-03-2026.
  - Titled "Adversarial Machine Learning for Cyber Threat Detection and Défense in Modern Networks" in International Conference on Signal Processing and Artificial Intelligence (ICSPA 2026)) organized by Tagore Institute of Engineering and Technology, Affiliated to Anna University, Chennai from 27-03-2026 to 28-03-2026.
- Dr. Farooq Sunar Mahammad, Professor, successfully presented the following research papers:
  - "A Cutting-Edge Transfer Learning Framework for Skin Lesion Analysis Across Multiple Modalities" at the 3rd International Conference on Business Intelligence and Data Analytics (BIDA 2026), organized by RV Institute of Management (RVIM), Bangalore, India, held from 11–12 April 2026.
  - "A Secure and Scalable Web-Based Hostel Management System for Automated Institutional Administration" at the International Conference on Engineering Innovations for Sustainable Development (ICEISD 2026), organized by Chaitanya Bharathi Institute of Technology (CBIT), Proddatur, held from 10–11 April 2026.
  - "An Explainable NASNet Architecture for Reliable Detection and Interpretation of Synthetic Images" at the 9th International Conference on Inventive Computation Technologies (ICICT 2026), organized by Tribhuvan University, Nepal, held from 15–17 April 2026.

- "ELM-GRU-AM: A Hybrid Approach for Intelligent Multimodal Human Activity Recognition in Personal Healthcare" at the 3rd International Conference on Business Intelligence and Data Analytics (BIDA 2026), organized by RV Institute of Management (RVIM), Bangalore, India, held from 11–12 April 2026.

➢ Mrs. V. Lakshmi Chaitanya, Associate Professor, successfully presented the following research papers:

- "Deep Learning-Based Lip Movement Recognition and Lip Sync Mismatch Detection in Video Analysis" at the International Conference on Engineering Innovations for Sustainable Development (ICEISD 2026), organized by Chaitanya Bharathi Institute of Technology (CBIT), Proddatur, held from 10–11 April 2026.
- "Attention-Guided Multimodal Deep Learning for Non-invasive Autism Disorder Detection" at the 2nd International Conference on Computational Innovations and Emerging Trends, organized by the Department of CSE, School of Computing, Mohan Babu University, Tirupati, in association with CRC Press, Taylor & Francis Group, held from 17–18 April 2026.

➢ Mr. P. Bhaskar, Associate Professor, successfully presented the research paper "A Machine Learning Approach to Hypertension Prediction Using Decision Tree Classifier" at the Second International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI 2026), organized by Surya Engineering College, Erode, Tamil Nadu, India, on 13 April 2026.

➢ Mrs. M. Sharmila Devi, Associate Professor, successfully presented the research paper "CNN2D-based Deep Learning Framework for IoT Cyberattack Detection with CICAPT-IIoT" at the 2nd International Conference on Visual Analytics and Data Visualization (ICVADV 2026), organized by the Department of Electronics and Communication Engineering, Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, on 16 April 2026.

➢ Mr. S. Nagendrudu, Assistant Professor, successfully presented the research paper "Multi-Model Machine Learning Framework for Real-Time Vehicle Health Monitoring and Fault Prediction" at the International Conference on Smart Electronic Devices and Intelligent Systems (ICSEDIS 2026), organized by The Royal College of Engineering and Technology, Thrissur, held from 13–15 April 2026.

➢ Mr. M. Amareswara Kumar, Assistant Professor, successfully presented the research paper "Skin Lesion Detection on ISIC Dataset Using 2D Convolutional Neural Networks" at the 3rd International Conference on Business Intelligence and Data Analytics (BIDA 2026), organized by RV Institute of Management (RVIM), Bangalore, India, held from 11–12 April 2026.

➢ Mr. P. Subba Rao, Assistant Professor, successfully presented the research paper "YOLO Model Safety Helmet Detection in Construction Scenes with Deep Learning" at the International Conference on Engineering Innovations for Sustainable Development (ICEISD 2026), organized by Chaitanya Bharathi Institute of Technology (CBIT), Proddatur, held from 10–11 April 2026.

➢ Mrs. M. Jayamma, Assistant Professor, successfully presented the following research papers:

- "A Multi-Layer Perceptron Model for Predicting Smartphone Addiction Levels" at the 4th International Conference on Artificial Intelligence & Machine Learning Applications, organized by K.S. Rangasamy College of Technology, Tiruchengode, Namakkal, Tamil Nadu, India, held from 16–17 April 2026.
- "Advanced UAV-based Road Damage Detection Using YOLOv5, YOLOv7, and YOLOv8: A Comparative Deep Learning Approach" at the 8th International Conference on Inventive Material Science and Applications (ICIMA 2026), organized by Muthayammal Engineering College (Autonomous), affiliated with Anna University, Namakkal, Tamil Nadu, India, held from 13–15 May 2026.

➢ Ms. S. Nazia Banu, Assistant Professor, successfully presented the following research papers:

- "A Comparative Study of Start-Up Success Prediction with Random Forest and Traditional Models" at the Second International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI 2026), organized by Surya Engineering College, Erode, Tamil Nadu, India, on 13 April 2026.
- "Decision Tree Models for OCD Detection and Treatment Response Analysis: A Systematic Review" at ICIETSD 2026, organized by Kings College of Engineering, Thanjavur, India, held from 9–10 April 2026.

➢ Mrs. O. Bhulakshmi, Assistant Professor, successfully presented the following research papers:

- "Text-to-Image Generation Using Hybrid CNN and Bi-LSTM Framework" at the 4th International Conference on Artificial Intelligence & Machine Learning Applications, organized by K.S. Rangasamy College of Technology, Tiruchengode, Namakkal, Tamil Nadu, India, held from 16–17 April 2026.
- "CNN2D-based Deep Learning Framework with Blockchain-Enabled Trust Verification for Real-Time Disaster Event Detection" at the 8th International Conference on Inventive Material Science and Applications (ICIMA 2026), organized by Muthayammal Engineering College (Autonomous), affiliated with Anna University, Namakkal, Tamil Nadu, India, held from 13–15 May 2026.

FDP & WORKSHOP

➢ Mrs.V.Lakshmi Chaitanya, Associate Professor, attended following Faculty Development Programs

o Five Faculty Development Program on “AI Foundation and Inteligent Systems: Exploring Artificial Intelligence & Machine Learning", jointly organized by the Department of Computer Science and Engineering, Santhiram Engineering College (Autonomous) and the Faculty Development Centre, Jawaharlal Nehru Technological University Anantapur, Andhra Pradesh. Held from 06-01-2026 to 10-01-2026.

o Six Days National Level Faculty Development Program (FDP) on “Generative & Agentic AI - Tools & Demo’s“ organized by Department of CSE, Sardar Vallabhbhai National Institute of Technology (SVNlT) Technically Co-sponsored by IEEE - Gujarat Section & partnered with Pantech Solutions (India) Pvt„ Ltd. from 16-02-20626 to 21-02- 2026.

o One-week online Faculty Development Program on "Advanced Deep Learning Techniques for Healthcare AI: From Research Foundations to Clinical Translation” Organized by Department of Computer Science & Engineering (Data Science), CVR College of Engineering, Hyderabad from 9-03-2026 to 14-03-2026.

➢ Mr. P V Jagadeeswara Prasad, Assistant Professor attended 5-days National Workshop “on generative AI: Building Ethical Intelligence for Responsible Future” organized by PG Department of Computer Science, Kodigeri Balakrishnan Smaraka govt. College, Thalasserg with the sponsorship of the Directorate of Collegiate Education, govt. of Kerala, held from 12-01-2026 to 16-01-2026.

➢ Mrs.O.Bhulakshmi, Assistant Professor attended Six Days National Level Faculty Development Program (FDP) on “Generative & Agentic AI - Tools & Demo's” organized by Department of CSE, Sardar Vallabhbhai National Institute of Technology (SVNlT) Technically Co-sponsored by IEEE - Gujarat Section & partnered with Pantech Solutions (India) Pvt„ Ltd. from 16-02-20626 to 21-02- 2026.

Following Faculty Members were participated in

➢ One week Faculty Development Program on “Microsoft Power BI Data Analyst Associate” conducted by ICT Academy at Santhiram Engineering College, Kurnool from 09-03-2026 to 13-03-2026

o Mr.P.Bhaskar, Associate Professor
o Mr.P.Subba Rao, Assistant Professor
o Mr. P V Jagadeeswara Prasad, Assistant Professor

- The following faculty members attended a Five-Day Faculty Development Program (FDP) on "Visualization-Driven Predictive Analytics with Modern Data Tools," organized by MITS, Madanapalle, from 20-04-2026 to 24-04-2026
  - Mrs. V. Lakshmi Chaitanya, Associate Professor
  - Mr. P. Bhaskar, Associate Professor
  - Mrs. M. Sharmila Devi, Associate Professor
  - Mr. P. Subba Rao, Assistant Professor
- Mrs. M. Sharmila Devi, Associate Professor, participated in the following professional development programs:
  - IP Awareness/Training Program under the National Intellectual Property Awareness Mission (NIPAM), organized by the Intellectual Property Office, India, on 21-04-2026.
  - Five-Day Faculty Development Program (FDP) on "Advances in Generative AI and Computer Vision: Research Trends and Emerging Applications," organized by Vignan's Foundation for Science, Technology & Research, conducted in hybrid mode from 18-05-2026 to 22-05-2026.
- Mrs. V. Lakshmi Chaitanya, Associate Professor, participated in a one-day workshop titled "Designing the Future: 100 Advanced Quantum Algorithms on Real Machines" on 05-05-2026, organized by Amaravati Quantum Valley in collaboration with SRM University-AP.
- Ms. S. Nazia Banu, Assistant Professor, participated in the online Faculty Development Program (FDP) on "Computational Mathematics using Python," organized by the Department of Freshman Engineering, Sphoorthy Engineering College, from 16-06-2026 to 20-06-2026.

S. SAI SUDHA (22X51A05E1), IV CSE



"My journey at this institution has been a rewarding and enriching experience. The smart classrooms, well-equipped laboratories, and supportive faculty have helped me strengthen my technical knowledge and practical skills. The college provides opportunities to participate in academic, technical, and co-curricular activities, encouraging me to explore new ideas and emerging technologies. I am proud to be a student of this institution, which inspires me to learn, innovate, and confidently prepare for my future career."

SOLVE IT

1) Solve It

		2		8				
		3						6
4			1	2			8	
	3		2					1
	6		8		1		3	
1					9		4	
	9			4	2			5
6						3		
				9		8		

2) The Binary Password

A system uses an 8-bit binary password.
The password satisfies these conditions:

- It contains exactly four 1s.
- The decimal value is greater than 150.
- The last four bits represent an even number.
- The first bit is 1.

Challenge: Find all possible passwords satisfying these conditions.

Thank you