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 1



Innovate. Integrate. Inspire.

Code the Future.

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(Autonomous)

Nandyal, Andhra Pradesh, India

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TECHNEX

THE CSE MAGAZINE

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MESSAGES

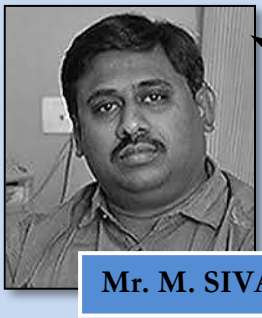
CHAIRMAN'S MESSAGE



Dr. M. SANTHIRAMUDU

It gives me immense pleasure to know that the Department of CSE of Santhiram Engineering College (Autonomous) is bringing out its Half-Yearly Magazine, "TECHNEX," for the eleventh consecutive year. This initiative provides a valuable platform for faculty and students to showcase their technical knowledge, creativity, innovative ideas, and achievements. I sincerely appreciate the dedicated efforts of the editorial team, faculty and students in bringing out this enriching publication. I congratulate the entire CSE Department for their commitment and commendable efforts in nurturing a culture of innovation, learning, and technical excellence. I wish "TECHNEX" continued success and many more fruitful editions in the years to come.

MANAGING DIRECTOR'S MESSAGE



Mr. M. SIVARAM

It is a pleasure to know that our college is bringing out "TECHNEX," the CSE Half-Yearly Magazine for the AY 2025–2026. It serves as an excellent platform for faculty and students to share their knowledge, creativity, technical insights, and achievements. I appreciate the sincere efforts of the editorial team and magazine committee in bringing this publication to fruition. I hope TECHNEX continues to inspire and nurture the talent, innovation, and intellectual growth of our academic community. My best wishes to the entire team for the continued success of this endeavour.

PRINCIPAL'S MESSAGE



Dr. M. V. SUBRAMANYAM

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. "TECHNEX – The CSE Half-Yearly Magazine" 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 TECHNEX continued success in the years ahead.

H.O.D's MESSAGE



Dr.S.MD.FAROOQ

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

Department profile

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.

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.

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.

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.

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.

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

Quantum Cryptography: Securing the Future of Communication

Quantum cryptography is an emerging field of cyber security that uses the principles of quantum mechanics to protect information from unauthorized access. Unlike conventional cryptography, which primarily relies on mathematical complexity, quantum cryptography uses the fundamental properties of quantum particles to provide highly secure communication.

The most important application is Quantum Key Distribution (QKD), which enables two parties to securely generate and share an encryption key. A well-known QKD protocol is BB84, proposed by Charles Bennett and Gilles Brassard in 1984. It uses quantum states of photons to transmit information and relies on principles such as the Heisenberg Uncertainty Principle and the No-Cloning Theorem.

A key advantage of quantum communication is that measuring a quantum state can disturb it. Therefore, an attacker attempting to intercept transmitted quantum particles introduces detectable changes. The legitimate users can compare selected portions of their data to identify an increased error rate and, if necessary, discard the compromised key.

Quantum cryptography has potential applications in banking, defense, healthcare, government communication, cloud computing, and critical infrastructure. It is particularly important because future quantum computers could break some widely used public-key algorithms, including RSA and ECC.

However, practical implementation faces challenges such as high equipment costs, limited transmission distances, photon loss, noise, hardware imperfections, and integration with existing networks. Researchers are therefore developing quantum repeaters, satellite-based QKD, integrated photonic devices, and quantum-secure networks.

In conclusion, quantum cryptography offers a powerful approach to information security by using the laws of quantum mechanics to detect eavesdropping and establish secure encryption keys. Although technological and economic challenges remain, it is expected to become an important component of secure communication in the post-quantum era, particularly when combined with post-quantum cryptographic methods.

Mrs.V.Lakshmi Chaitanya

Asst.Prof.

STUDENT ARTICLE

Agentic AI: The Future of Intelligent Systems

Artificial Intelligence (AI) has transformed the way we learn, work, communicate, and solve problems. The latest development in this field is Agentic AI, a new approach in which AI systems can understand goals, make decisions, plan tasks, and take actions with limited human intervention. Unlike traditional AI tools that mainly respond to user instructions, Agentic AI can work toward a given objective by deciding what steps are required to achieve it.An AI agent can observe its environment, understand information, reason about a problem, create a plan, and perform actions. For example, instead of simply answering a student's question, an Agentic AI system could help the student plan a study schedule, search for relevant learning resources, organize the topics, generate practice questions, and evaluate progress. This ability to perform multiple connected tasks makes Agentic AI different from conventional chatbot-based systems.Agentic AI combines several technologies, including machine learning, natural language processing, large language models, knowledge retrieval, reasoning, and automated tools. An agent can interact with software applications, databases, websites, and other digital systems to complete tasks. Multiple AI agents can also collaborate, with each agent performing a specialized role such as research, planning, coding, testing, or reporting.

Agentic AI has applications in many areas. In education, it can provide personalized learning assistance and help students understand difficult concepts. In healthcare, AI agents can assist with information management and administrative tasks. In business, they can automate customer support, data analysis, workflow management, and report generation. In software development, agents can assist with coding, debugging, testing, and documentation.However, Agentic AI also creates important challenges. Since these systems can take actions independently, security, privacy, reliability, transparency, and human oversight are essential. An AI agent may make an incorrect decision if it receives incomplete or misleading information. Therefore, organizations must establish appropriate permissions, monitoring mechanisms, and safety controls before allowing AI agents to perform important tasks.

In conclusion, Agentic AI represents a shift from AI that simply answers questions to AI that can actively work toward goals.

B. Rithika
IV - CSE

DEPARTMENT CONDUCTED PROGRAMS

1. A 3 - Day Faculty Development Program on "Essential AI Tools for Education 4.0"



The Department of CSE conducted A 3 - Day Faculty Development Program on "Essential AI Tools for Education 4.0" for CSE and EEE and MCA faculty members from 01-07-2025 to 03-07-2025 in association with IEEE Student Branch STB17901 and IEEE Computer Society SBC17901B. Mr.P.Bhaskar , Associate Professor and Mr.M.Amareswara Kumar, Assistant Professor of CSE Department acted as a resource persons for this program.

2) An alumni talk on "Microservices with Spring Boot – A Developer's Toolkit"



The Department of CSE conducted an alumni talk on "Microservices with Spring Boot – A Developer's Toolkit", for third year students on 30-07-2025 in association with the SREC IEEE Student Branch STB17901 and IEEE Computer Society SBC17901B. Mr. B. Manikanta Reddy, Software Development Engineer, Licious, Bangalore acted as resource person for this program

3) A NATIONAL LEVEL FDP ON “GENERATIVE -AI”



The department of CSE conducted a NATIONAL LEVEL FDP ON “GENERATIVE -AI” for SREC faculties from 04-08-2025 to 08-08-2025 in association with Brain O Vision. Mr. Gundala Nagaraju, CEO, Smartmieten Tech pvt Ltd IIM, Calcutta acted as a resource person for this FDP.

4) A one day Awareness Program on JAVA EXPERTISE DEVELOPMENT



The Department of CSE conducted one day Awareness Program on JAVA EXPERTISE DEVELOPMENT PROGRAM BY ORACLE ACADEMY for third year students on 13-08-2025. Mr.Samuel Krupa Kiran, Assistant Professor, CSE Department acted as resource person for this program.

5) A Five-Day Workshop on "Integrating AI in Full Stack Web & Application Development"



The department of CSE conducted a Five-Day Workshop on "Integrating AI in Full Stack Web & Application Development" for third year students from 9-9-2025 to 13-9-2025 in association with SREC IEEE Student Branch and IEEE Computer Society-17901B. Mr.J.Vikash Kumar, Co-Founder, Mentorly, Hyderabad acted as resource person for this workshop.

6) A One Day Hackathon on "AI-Driven Full Stack Solutions"



The department of CSE conducted a One Day Hackathon on "AI-Driven Full Stack Solutions" for third year students on 14-09-2025 in association with SREC IEEE Student Branch and IEEE Computer Society 17901B. Mr.J.Vikash Kumar, Co-Founder, Mentorly, Hyderabad acted as a judge for this program.

7) INTERNATIONAL CAREER DEVELOPMENT PROGRAM ON "SDG, ESG AND INDUSTRY INNOVATIONS"



The department of CSE conducted a INTERNATIONAL CAREER DEVELOPMENT PROGRAM ON "SDG, ESG AND INDUSTRY INNOVATIONS" for all Faculty members and students of SREC from 15-09-2025 to 19-09-2025 in association with Brain O Vision. Mr.Dinesh Kumar Balki, AI Generalist, Brain O Vision, Hyderabad acted as a resource person for this program.

8) A One Day Awareness Program on Engineering Education for Mahatma Jyotirao Phule students



The Department of CSE conducted a One Day Awareness Program on Engineering Education for Mahatma Jyotirao Phule students on 17.09.2025 in association with SREC IEEE Student Chapter. Dr. S.Md. Farooq Professor of CSE Department acted as resource person for this program

9) Smart India Internal Hackathon (SIIH) 2025



The Department of CSE conducted Smart India Internal Hackathon (SIIH) 2025 for all CSE students on 20-09-2025 in association with IIC and IEEE Student Branch STB17901 and IEEE Computer Society SBC17901B.

10) A One-Day coding program on CODEX



The Department of CSE conducted a one-day coding program on CODEX for CSE students on 25-09-2025 in association with IIC and IEEE Student Branch STB17901 and IEEE Computer Society SBC17901B.

11) A Two-Day industrial visit for code bind technologies



The Department of CSE organized a two-day industrial visit for code bind technologies from 29-09-2025 to 30-09-2025 in association with SREC IEEE Student Branch and IEEE Computer Society 17901B.

12) A One Day Program on "Career Opportunities Beyond Campus Placements"



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 Datavalley acted as a Recourse person for this program

13) A One Day Awareness Program on “The Rise of Generative AI: Opportunities and Challenges”



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

14) A one-day virtual webinar on “How to be a World-Class Researcher?”



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

15) A one-day program titled “Empowering Students with Practical AI Tools”



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.

16) LIST OF EVENTS ORGANIZED DURING SAMANVAYA-SIGMA-2K25

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

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.

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.

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.

STUDENT ACHIEVEMENTS

➢ J. Venkat Reddy (22X51A0548) selected as the Unstop Campus Ambassador at Santhiram Engineering college on July 2025.

➢ P.Soma Sekhar (22X51A5A3) has successfully attended the 5-Day Crash Course on Data Analysis with Python conducted by Innomatics Research Labs from 28th July, 2025 to 1st August, 2025. We laud your active participation & enthusiasm during the workshop.

➢ Modala Venkata Lakshmi Harshini (24X51A05J1) participated 120 hours of learning in 15 Sessions and Successfully Completed the Experiential Learning Program Duration: 02-07-2025 to 21-Ju1-2025 which was conducted by Santhiram Engineering College, Nandyal via MY Bharat (Mera Yuva Bharat)

➢ The following Five CSE IV-I Students are selected for Internship cum placement drive held with Info spoke Integrated Solutions Hyderabad with a package of 3.6 LPA

- ALAVALAPATI ALEKHYA (22X51A0503)
- BOKKASAM RITHIKA (22X51A0512)
- GADDAM THARUNYA (22X51A0533)
- JONNAGIRI VENKAT REDDY (22X51A0548)
- CHATLA ARUN KUMAR (23X55A0502)

➢ P. Swathhi (22X51A05G2) has qualified in NATIONAL INTER-COLLEGE CROSSWORD EXPEDITION 2025 SOUTH ZONE FINALS Held on the 02-08-2025 at IIT Madras.

➢ PANYAM SOMASEKHAR REDDY (22X51A05A3) selected has **CAMPUS AMBASSADOR** in recognition of the excellent initiatives and outstanding contributions Made during the Campus Ambassador Program Organized by the Glow Logics Solutions held on 25.08.2025.

➢ PANYAM SOMASEKHAR REDDY (22X51A05A3) selected as an AISYWLC 2025 **Ambassador**, hosted by the IEEE Gujarat Section. This recognition highlights your leadership, enthusiasm, and commitment to fostering innovation within the IEEE community held on 25.08.2025.

➢ EDIGA SNEHA (23X51A0558) having **secured above 90% marks**, is eligible for tuition fee reimbursement in the form of a Rs: 43,000/- cash amount.

➢ Ms. V. Husena (22X51A05F1) represented the college in the South Zone Handball National Championship 2024–25 and was awarded a **cash prize of ₹10,000.**

➢ Mr. N SHARATH CHANDRA REDDY (21X51A0587) represented the college in the South Zone FOOT BALL National Championship 2024–25 and was awarded a **cash prize of ₹10,000**.

➢ N.Harshitha (22X51A0595) and P.Swathi (22X51A05G2) IV-I CSE Students representation in GRAND FINALE and stood 7th in India in NATIONAL INTER COLLEGE CROSSWORD EXPEDITION NICE 25 held at AICTE auditorium New Delhi. Organized by AICTE. IIT MADRAS 11M MUMBAI, held on 09.09.2025 & 10.09.2025.

➢ Panyam Somasekhar Reddy (22X51A05A3) for his outstanding dedication and valuable contribution as a Student Network Member at IEEE Hyderabad Section, during the year 2024.

➢ Total 50 students are obtained Professional Body (IEEE) Membership.

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.

WINNERS & RUNNERS 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

Department/Faculty Achievements

DEPARTMENT ACHIEVEMENT:

- The Department of CSE signed a **MOU with Mentorly** for Five Years on 12.09.2025.

FACULTY ACHIEVEMENT:

- Dr. S. Md. Farooq, Professor appointed as **Research Supervisor** for Ph.D Program in the Department of Computer Science and Engineering with effect from 04-07-2025 at ANNAMACHARYA UNIVERSITY Excellence In Education; Service To Society (Esto Under Ap Private Universities (Establishment And Regulation) Act, 2016) Rajampet, Annamayya District, A.P - 516126, India.
- Dr.S.Md.Farooq, Professor achieved in recognition of valuable contribution as a Reviewr during the 1st International Conference on Sustainability, Innovation & Technology (ICSIT 2025) held on 22.08.2025 to 23.08.2025 organized by Symbiosis Institute Of Technology, Nagpur
- Mrs.V.Lakshmi Chaitanya, Associate Professor has exceptional achievements and valuable contributions as a Reviewer for the International Conference on Advances and Trends in Engineering and Scientific Theory (ICATEST-2025). organized by MG Aricent Educational Foundation, Yavatmal, India on 19th & 20th September 2025 (Online Mode).
- 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-B&C of 2023 batch.
- Mr.K V 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.

FACULTY ATTENDED JOURNALS / CONFERENCES / WORKSHOPS/FDP/PATENTS

PATENTS

Sl. No.	Name of the Faculty	Title of the Patent	Patent Published Date . Granted Date (DD.MM.YYYY)	Patent Application No.	Status of Patent (Published /Granted)
1	M ANUSHA	AI & ML-BASED YOLOV8 SMART SURVEILLANCE FOR SAFETY ,SECURITY, AND WORKFORCE MANAGEMENT	19.12.2025	202541106120	Published
2	M ANUSHA	DEEP LEARNING-BASED MULTI-DISEASE DETECTION FROM X-RAY IMAGES	19.12.2025	202541106052	Published
3	Dr.FAROOQ SUNNAR MAHAMMAD	ADAPTIVE RECOGNITION OF HUMAN BEHAVIOURS USING MULTIMODAL DATA FOR PREVENT HEALTHCARE	19.12.2025	202541106073	Published
4	Dr.FAROOQ SUNNAR MAHAMMAD	ETHEREUM SMART CONTRACT FOR SECURE LAND TRANSACTIONS WITH DEEP LEARNING ANOMALY DETECTION	19.12.2025	202541106074	Published
5	Dr.FAROOQ SUNNAR MAHAMMAD	INTEGRATED MODEL FOR AI-GENERATED IMAGES FORENSICS USING NASNET WITH XAI	19.12.2025	202541106086	Published
6	MANJULA JAYAMMA	CNN1D-BASED DEEP LEARNING FRAMEWORK FOR ONLINE FRAUD TRANSACTION DETECTION	19.12.2025	202541106127	Published
7	MANJULA JAYAMMA	DEEP LEARNING APPROACH FOR UAV-BASED ROAD CONDITION MONITORING	19.12.2025	202541106061	Published
8	M SHARMILA DEVI	SECURE AND RELIABLE SCADA-DRIVEN IIOT NETWORKS:AN ENSEMBLE LEARNING FRAMEWORK WITH PRU AND DT	19.12.2025	202541106084	Published
9	M SHARMILA DEVI	SECGUARD-CNN : A 2D CONVOLUTIONAL	19.12.2025	202541106130	Published

		NEURAL FRAMEWORK FOR INTELLIGENT CYBERATTACK DETECTION IN IIOT USI			
10	S.NAZIA BANU	RESOURCE-EFFICIENT PREDICTIVE MODELS FOR START-UP	19.12.2025	202541106062	Published
11	S.NAZIA BANU	SYSTEM AND METHODS UTILIZING DECISION FOR OCD	19.12.2025	202541106063	Published
12	V LAKSHMI CHAITANYA	A SCALABLE INTRUSION DETECTION FRAMEWORK FOR INDUSTRIAL IOT USING DISTRIBUTED DNNS AND EXTREME LEARN	19.12.2025	202541106129	Published
13	V LAKSHMI CHAITANYA	RANK-E++: AN ENHANCED EXPLAINABLE AI FRAMEWORK FOR DETECTING MULTI-STAGE PERSISTENT THREATS IN ENTER	19.12.2025	202541106082	Published
14	P. BHASKAR	AI-DRIVEN IMAGE AUGMENTATION SYSTEM FOR AGRICULTURAL APPLICATIONS USING GENERATIVE ADVERSARIAL AND C	19.12.2025	202541106132	Published
15	P. BHASKAR	DEEP LEARNING-BASED IOT BOTNET DETECTION: A COMPARATIVE ANALYSIS OF CNN,LSTM,RNN,AND ACLR APPROACHES	19.12.2025	202541106112	Published
16	P. BHASKAR	AUTOMATED HYPERTENSION RISK PREDICTION AND NOTIFICATION SYSTEM USING DECISION TREE CLASSIFIER	19.12.2025	202541106083	Published
17	O.BHULAKSHMI	SYSTEM AND METHOD FOR EVENT DETECTION AND TRUST VERIFICATION USING BLOCKCHAIN AND NATURAL LANGUAGE P	19.12.2025	202541106053	Published
18	O.BHULAKSHMI	BRIDGING LANGUAGE AND VISION: BIDIRECTIONAL LSTM ENHANCED CNN FRAMEWORK FOR TEXT-TO-IMAGE SYNTHESIS	19.12.2025	202541106054	Published
19	M.AMARESWARA KUMAR	ATTENTION-ENHANCED CNN FOR EARLY DETECTION OF SKIN LESIONS	19.12.2025	202541106186	Published
20	M.AMARESWARA KUMAR	ADAPTIVE MULTISCALE CNN FOR ROBUST	19.12.2025	202541106187	Published

		HUMAN			
21	K.V.SAI PHANI	INTELLIGENT STROKE RISK DETECTION WITH CATBOOST: A WEB-BASED PREDICTIVE DIAGNOSTIC SYSTEM	19.12.2025	202541106522	Published
22	S.MD.RIYAZ NAIK	AN SVM-BASED METHODOLOGY FOR DISASTER	19.12.2025	202541106170	Published
23	S.MD.RIYAZ NAIK	DUAL-PHASE DEEP LEARNING PIPELINE FOR FOREST FIRE RECOGNITION AND LOCALIZATION IN MACHINE VISION EDU	19.12.2025	202541106171	Published
24	S.NAGENDRUDU	BLOCKCHAIN-BASED SECURE IOT SOFTWARE UPDATES USING CPABE, ECDSA, AND IPFS FOR IMPROVED EFFICIENCY	19.12.2025	202541106077	Published
25	S.NAGENDRUDU	SECURITY OPTIMIZATION FOR CYBER-PHYSICAL SYSTEM USING GAME-THEORY AND REINFORCEMENT LEARNING FRAMEWORK	19.12.2025	202541106513	Published

FDP & WORKSHOPS

- Mr. A.V. Subbaiah Assistant professor of CSE Department, has participated in the Five-Day Faculty Development Program on “MACHINE LEARNING AND DEEP LEARNING” jointly organized by the Department of Emerging Technologies in Computer Science and Department of Computer Science & Engineering, G. Pulla Reddy Engineering College (Autonomous), Kurnool in association with Faculty Development Centre, Jawaharlal Nehru Technological University Anantapur, held from 07.07.2025 to 11.07.2025.

- Following faculty members were participated in International 5-Day Online **Professional Development Program** on "Future-Ready Skills in Data Science & AI: Bridging Academia with Industry Practice” organized by the Department of CSE – Data Science, MITS held from 21.07.2025 to 25.07.2025.

  - Mr.P.Bhaskar , Associate Professor
  - Mrs.V.Lakshmi Chaitanya,Associate Professor
  - Mrs. M. Sharmila Devi, Assistant Professor.
  - Mrs.M.Anusha, Assistant Professor

- Mrs. M. Sharmila Devi, Assistant Professor has participated A Six Day **Faculty Development Program** on "Prompt Engineering and Chat GPT Utilization" Organized by the Department of Information Technology in Association with Techno Future India held from 14-07-2025 to 19-07-2025 at KKR & KSR INSTITUTE OF TECHNOLOGY AND SCIENCES (Autonomous) Vinjanampadu, Vatticherukuru Mandal, Guntur, Andhra Pradesh- 522017.
- Mrs. V. Lakshmi Chaitanya, Associate Professor or has Participated in **Faculty Development Program** on Cloud Computing Organized by the J B Institute of Engineering & Technology (JBIET), Hyderabad, Telangana. GITA Autonomous College, Bhubaneswar. Hyderabad Institute of Technology & Management (HITAM), Telangana R V Institute of Technology & Management (RVITM), Karnataka. Atma Malik Institute of Research & Technology (AMRIT),. in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 14-07-2025 to 18-07-2025.
- Mrs. V. Lakshmi Chaitanya, Associate Professor has Participated in 5 days Faculty Development Program on “AI, ML & Deep Learning for Autonomous Vehicles” held on 28-07-2025 to 01-08-2025, Organized by STEP-National Institute of Technology Karnataka in Association with Pantech e Learning
- Ms.S.Nazia Banu, Assistant Professor has Participated in Faculty Development Program on Data Analytics Using Power BI Organized by the Atria Institute of Technology (AIT), Autonomous, Bangalore, Karnataka. and Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra. in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 28-07-2025 to 01-08-2025.
- Mrs.V.Lakshmi Chaitanya, Associate Professor has participated in 12-Day Faculty Development Program on Quantum Computing Educator through the Faculty Development Program held from 01-08-2025 to 14-08-2025, organized by Blackbucks Group in collaboration with the International Institute of Digital Technologies (IIDT), Tirupati.
- Following Faculty members were participated in the **Faculty Development Program (FDP)** on "GENERATIVE AI" held from 04-08-2025 to 08-08- 2025, organized by Brain Vision Solutions India Pvt. Ltd., in collaboration with AICTE (All India Council for Technical Education) and hosted by SANTHIRAM ENGINEERING COLLEGE.
  - Dr.S.Md.Farooq, Professor
  - Mr.S.Md.Riyaz Naik, Associate Professor
  - Mr.P.Bhaskar, Associate Professor
  - Mrs.V.Lakshmi Chaitanya, Associate Professor

- Mr.M.Amareswara Kumar, Assistant Professor
- Mrs.M.Sharmila Devi, Assistant Professor
- Mr.KV.Sai Phani, Assistant Professor
- Mr.P Subba Rao, Assistant Professor
- Mrs.M Anusha, Assistant Professor
- Mrs.O.Bhulakshmi, Assistant Professor
- Mrs.M Jayamma, Assistant Professor
- Mrs.S Nazia Banu, Assistant Professor
- Mr.AV Subbaiah, Assistant Professor

- Mrs.V.Lakshmi Chaitanya, Associate Professor has Participated in **Faculty Development Program** on Quantum Computing Organized by the Ramrao Adik Institute of Technology, D Y Deemed to be University, Navi Mumbai New Horizon College of Engineering, Bengaluru, Karnataka. KIIT University Bhubaneswar, Odisha. in Collaboration with ExcelR Edtech Pvt. Ltd. Date: 11-08- 2025 to 18-08-2025.
- Mr.P.Bhaskar, Associate Professor has participated in one Day Online workshop on "Deep dive in to Java with Oracle Academy" Organized by the Oracle Academy held on 13.08.2025.
- Mrs.V.Lakshmi Chaitanya, Associate Professor successfully completed the Online **NPTEL course** Introduction to Quantum Computing: Quantum Algorithms and Qiskit with a consolidated score of 65 % and Introduction to Internet of things with a consolidated score of 86% held on Jul-Aug 2025.
- Mrs.M.Anusha, Assistant Professor successfully completed the Online **NPTEL course** Python for Data Science with a consolidated score of 57 % held on Jul-Aug 2025.
- 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. M. Sharmila Devi, Assistant Professor has 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.
- Mrs.V.Lakshmi Chaitanya, Associate Professor has 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.

CONFERENCES/JOURNALS

- Dr.S.Md.Farooq, Professor published a technical paper entitled “Design and Implementation of a Socially Assistive Robot for Enhancing Health and Well-Being: A Multi-Domain Approach to Cognitive Support and Behavior Change” in Sustainable Energy, Materials, and Manufacturing Technology in AIP Conf. Proc. 3342, 080002-1–080002-7; under an exclusive license by AIP Publishing on SEPTEMBER 30 2025
- Dr. S. M. D. Farooq published three book chapters in the volume titled “Power, Energy, and Secure Smart Technologies”, which was released on 16th July 2025. The titles of the book chapters are as follows:

➢ Optimization of Power Loss Mitigation in Distribution Systems Using Hunter-Prey Optimization Algorithm for Multiple Types of DFACTS

➢ Optimal Placement of Renewable-Based DG and DSTATCOM in Distribution Systems to Alleviate the Effects of EVCS

➢ SPWM Fed MLI (Multi-Level Inverter) Configuration for Induction Motor Drive with Minimal Switch Count.

- Mrs. V. Lakshmi Chaitanya, Associate Professor published a technical 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 – ICCRTEE 2025.
- Mr.M. Amareswara Kumar, Assistant Professor published a technical paper entitled “Assessing Driver Alertness Utilizing Open CV and Machine Learning” in power system technology.
- 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), organized by T. John Institute of Technology, Bengaluru, India, held from 15-12-2025 to 17-12-2025.

STUDENT'S VOICE

PANYAM SOMASEKHAR REDDY
(22X51A05A3), IV CSE



"My journey at this institution has been a truly rewarding experience. The modern classrooms, smart boards, well-equipped laboratories, and supportive faculty have provided an excellent environment for learning and innovation. The college encourages us to develop both our technical skills and overall personality through various academic and co-curricular activities. I am proud to be part of an institution that continually motivates students to learn, explore, innovate, and prepare confidently for the future."

SOLVE IT

1)

8	9	4					5	1
		7			3		6	9
	6		5		4			
	3	8	4	5	1			
2					6	8		5
6					2	7		
3	8		1	7	5			
4			3	6	9	1		8
	1					5	7	

2) The Bridge and Torch Puzzle

Four people need to cross a bridge at night. They have one torch, and at most two people can cross at a time.
Their crossing times are:
- A → 1 minute
- B → 2 minutes
- C → 7 minutes
- D → 10 minutes

When two people cross together, they move at the slower person's speed.
What is the minimum total time required for everyone to cross?

Thank you