

DIGITAL DRIFT

DEPARTMENT MAGAZINE

“ The biggest risk is not taking any risk... “

- Mark Zuckerberg



CSE

ACADEMIC YEAR : 2021-22

WHAT IS CSE...!??

At Usha Rama College, the Department of Computer Science and Engineering (CSE) offers a dynamic learning environment aimed at equipping students with technical expertise, creativity, and leadership skills essential for thriving in today's fast-evolving tech landscape. The department blends academic rigor with hands-on experience, ensuring students are proficient in areas such as artificial intelligence, data science, cybersecurity, and software engineering through lectures, workshops, and seminars.

To reinforce theoretical learning, the department emphasizes practical knowledge through lab sessions, research projects, and industry visits. These experiences help students apply concepts to real-world scenarios and stay updated with emerging technologies. Students are encouraged to develop problem-solving abilities by participating in coding competitions, hackathons, and technical quizzes that promote critical thinking and innovation.

Beyond the classroom, the department offers a wide range of co-curricular activities, including workshops on advanced programming languages, algorithms, and development tools. The annual technical fest provides a platform for students to showcase projects, participate in coding events, and interact with industry professionals. Partnerships with leading tech companies enable students to secure internships that offer valuable industry exposure and hands-on training.

The CSE department also promotes the overall development of students through extracurricular activities. Participation in sports, cultural events, and college fests nurtures teamwork, creativity, and confidence. Technical clubs and societies—such as those focused on coding, robotics, or cybersecurity—allow students to deepen their expertise, collaborate on projects, and build professional networks.

Career readiness is a major focus of the department. It offers placement training, resume-building workshops, mock interviews, and networking opportunities with industry leaders to prepare students for successful careers. These initiatives help students understand current job market trends and refine their professional skills. Close industry collaborations ensure that students gain exposure to real-world work environments and establish valuable connections.

In addition to professional development, the department emphasizes social responsibility. Through participation in the National Service Scheme (NSS), students engage in community outreach, volunteer initiatives, and social impact projects. These activities foster leadership, empathy, and a sense of civic duty—qualities essential for responsible global citizens.

The Department of Computer Science and Engineering at Usha Rama College of Engineering and Technology remains committed to nurturing the next generation of tech innovators and leaders. By integrating academic excellence with hands-on learning and holistic development, the department ensures that its graduates are well-prepared to face the challenges of the technological world and contribute meaningfully to the global tech community.

Vision and Mission of the Institute

Vision of the Institute

To emerge as a Centre of excellence in technical education by imparting quality teaching learning practices and research for the transformation of society.

Mission of the Institute

M1: Provide an ideal and the best class infrastructure to foster exploration in engineering and research

M2: Build dedicated faculty with student centric teaching, incorporating experiential, innovative skills.

M3: Encourage life-long learning, entrepreneurial thinking, and ethical responsibility in students to address societal challenges.

Vision and Mission of the Department

Vision of the Department

To emerge as a skilled Technocrats on global scale in Computer Science and Engineering through quality education, innovation, collaborative researchers and entrepreneurs with moral values.

Mission of the Department

M1: To impart quality education to the students.

M2: To pursue creative research and new technologies in Computer Science and Engineering.

M3: To encourage entrepreneurship skills among students and inculcating moral and ethical values to serve for the society.

Department Program Educational Objectives (PEOs)

PEO1: Our graduates will establish themselves as effective professionals in industry, academia and entrepreneurship.

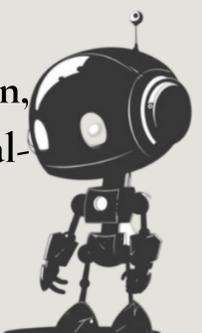
PEO2: Our graduates will be come profound researchers in multiple domains.

PEO3: Our graduates will act as a leaders in society.

Department Program Specific Outcomes (PSOs)

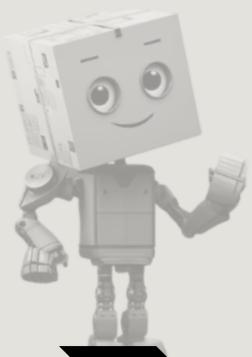
PSO1: Illustrating a comprehensive understanding of fundamental computer system principles encompassing both hardware and software components to cultivate strong conceptual skills in processing and assigning computation solutions.

PSO2: Demonstrate and design proficient and technical abilities in algorithms, networking, web design, cloud computing and data analytics enabling the development of innovative solutions to complex real-world problems while identifying and addressing emerging research gaps.



Program Outcomes (POs)

1. Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering fundamentals, and Engineering specialization to the solution of Complex Engineering Problems
2. Problem analysis : Identify, formulate, research literature, and analyze engineering problems to arrive at substantiated conclusions using first principles of Mathematics, Natural, and Engineering Sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society : Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and Sustainability : Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics : Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and teamwork : Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.
10. Communication: Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear.
11. Project management and finance : Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team. Manage projects in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



Charting Paths



Technical Events >>3-34

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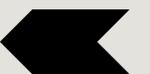
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Sunkara Ramabrahmam
Chairman

The Chairman of Usha Rama College of Engineering and Technology is a visionary leader committed to providing high-quality education and fostering innovation. With a focus on holistic student development, the Chairman ensures that the institution is a hub of academic excellence and ethical values. Under their guidance, Usha Rama College has grown into a premier destination for aspiring engineers, emphasizing both technical expertise and character building.

The Director of Usha Rama College of Engineering and Technology brings a wealth of experience and strategic acumen to the institution. With a forward-looking approach, the Director plays a key role in aligning the college's goals with the dynamic demands of the industry. Their emphasis on research, entrepreneurship, and cutting-edge technologies ensures that students are well-prepared for global opportunities.

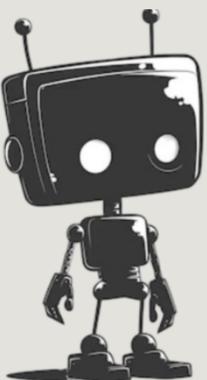


K. Rajashekar Rao
Director



Dr. G.V.K.S.V. Prasad
Principal

The Principal of Usha Rama College of Engineering and Technology is a dedicated academician and administrator who inspires both students and faculty to strive for excellence. With a passion for education and a commitment to fostering innovation, the Principal ensures a vibrant learning environment. Their leadership is instrumental in maintaining high academic standards and instilling a sense of responsibility and discipline among students.





Dr S.M Roy Choudri
HOD of CSE

Dr. S.M. Roy Choudri, the Head of the Department of Computer Science and Engineering at Usha Rama College of Engineering and Technology, is a distinguished academician and an inspiring leader in the field of computer science. His unwavering dedication to academic excellence has transformed the department into a hub of innovation and practical learning. Through his visionary leadership, Dr. Choudri has introduced modern teaching methodologies and strengthened industry collaborations, significantly enhancing students' skill sets and career opportunities.

As a prolific researcher, Dr. Choudri has made notable contributions to [specific research fields], advancing knowledge and setting a benchmark for academic rigor. His emphasis on fostering a culture of innovation has motivated students to excel in interdisciplinary research and real-world problem-solving. Dr. Choudri's holistic approach to education and mentorship has not only empowered students but also reinforced the department's reputation as a leader in producing skilled and ethically grounded professionals.



Dr K.P.N.V Satya Sree
Professor



Dr. K.P.N.V. Satya Sree, a highly respected professor in the Computer Science and Engineering department at Usha Rama College of Engineering and Technology, is a beacon of knowledge, mentorship, and innovation. With an impressive academic background and extensive experience in teaching and research, she has consistently pushed the boundaries of traditional education by integrating cutting-edge technologies and methodologies into her pedagogy. Dr. Satya Sree is known for her expertise in [specific areas of focus], where her insightful lectures and hands-on approach have made complex subjects accessible and engaging for students. Her scholarly contributions to [specific research fields] have earned her recognition in academic and professional circles, showcasing her commitment to advancing knowledge in computer science. Beyond her technical acumen, Dr. Satya Sree is deeply invested in nurturing the holistic development of her students, encouraging them to approach problems with creativity, critical thinking, and a sense of ethical responsibility. Her role extends beyond the classroom, as she

I. CODE CHALLENGE

The Department of Computer Science and Engineering organized *CodeQuest 2021* by *T.Naga Mounika*, a competitive and knowledge-driven coding event aimed at strengthening students' programming skills and enhancing their problem-solving abilities. The event was successfully conducted on *29th January 2021* and received an enthusiastic response from students across different years of study. CodeQuest 2021 served as an excellent platform for students to explore their coding potential, apply theoretical knowledge in practice, and gain confidence in solving real-world computational problems.

The primary objective of CodeQuest 2021 was to encourage *logical thinking, algorithmic reasoning, and efficient coding practices* among students. In today's rapidly evolving digital era, programming skills play a vital role in shaping successful careers in technology. Keeping this in mind, the event was carefully structured to expose students to diverse problem statements that tested their understanding of core programming concepts as well as advanced problem-solving techniques.



CODE QUEST

The competition consisted of multiple rounds, with each round designed to assess different levels of difficulty. The initial round focused on basic logic-building and fundamental programming concepts, allowing students to warm up and gain confidence. As the event progressed, participants were presented with intermediate and advanced challenges that required deeper analytical thinking, optimized algorithms, and efficient implementation. This gradual increase in complexity ensured a balanced evaluation of both beginners and advanced learners.

Students were given the flexibility to code in *C, C++, Java, and Python*, enabling them to demonstrate *their proficiency* in the programming language of their choice. This inclusivity encouraged wider participation and allowed students to focus on problem-solving rather than language constraints. The time-bound nature of the competition added an element of excitement and urgency, simulating real-world technical scenarios where developers are required to deliver accurate solutions within strict deadlines.

Throughout the event, participants displayed remarkable enthusiasm, dedication, and perseverance. The competitive environment motivated students to think creatively, debug efficiently, and optimize their solutions. Beyond competition, CodeQuest 2021 also promoted *collaborative learning, as students discussed ideas, exchanged strategies, and learned from one another's approaches.*

Faculty members and senior students played an instrumental role in the success of the event. They provided continuous mentorship and technical guidance, helping participants understand problem statements, improve coding efficiency, and adopt best practices followed in the software industry. Their presence created a supportive and encouraging atmosphere, especially for first-time participants, making the event both educational and enjoyable.

A major highlight of CodeQuest 2021 was the final round, which *featured complex, real-world problem statements.* These challenges required participants to apply logical reasoning, data structures, and algorithmic concepts to design innovative and practical solutions. The final round tested not only technical knowledge but also critical thinking, decision-making, and the ability to work under pressure. Participants demonstrated exceptional skill and creativity while tackling these advanced problems.

At the conclusion of the event, the top performers were recognized for their outstanding achievements. Winners were awarded certificates and prizes, acknowledging their hard work, technical expertise, and commitment to excellence. Certificates of participation were also provided, ensuring that every student received recognition for their effort and involvement. This appreciation boosted students' confidence and motivated them to further enhance their skills.

CodeQuest 2021 proved to be more than just a coding competition; it was a valuable learning experience that significantly contributed to students' academic and professional development. The event helped bridge the gap between classroom learning and practical application, preparing students for future technical competitions, hackathons, internships, and industry challenges.

In conclusion, CodeQuest 2021 was a resounding success, leaving a lasting impact on the participants. It reinforced the importance of programming and problem-solving skills in today's digital world and inspired students to continuously learn, practice, and innovate. The event successfully nurtured a passion for coding and encouraged students to embrace the ever-evolving landscape of technology with confidence and determination.

At the conclusion of the competition, the best-performing students were identified and honored. Certificates and prizes were awarded to the winners as a token of appreciation for their exceptional performance and dedication. Participation certificates were also distributed to encourage all students and recognize their efforts. The award ceremony served as a motivating factor and reinforced the importance of consistent practice and learning.

In addition to technical learning, CodeQuest 2021 promoted soft skills such as time management, decision-making, and stress handling. Working under time pressure taught students the importance of accuracy, efficiency, and clarity in problem-solving. *The event also fostered teamwork and peer learning, as students exchanged ideas and learned from each other's experiences.*

Overall, CodeQuest 2021 was a remarkable success, achieving its objectives of enhancing technical competence and instilling confidence among students. The event strengthened the coding culture within the department and inspired students to pursue continuous learning in the field of computer science. By encouraging *innovation, logical thinking, and collaborative learning,* CodeQuest 2021 played a vital role in preparing students for the ever-evolving technological landscape.

2. SEMINAR SPOTLIGHT

Our college takes immense pride in promoting a culture of continuous learning, innovation, and academic excellence through the organization of regular technical seminars under the Seminar Spotlight initiative. These seminars are thoughtfully designed to expose students and faculty members to emerging and cutting-edge technologies, enabling them to stay updated with the rapidly evolving digital landscape. By providing a platform for knowledge exchange and intellectual interaction, the Seminar Spotlight series plays a crucial role in strengthening the institution's academic ecosystem.

As part of this initiative, a seminar on the topic "*Edge Computing vs. Cloud Computing*" was successfully conducted on *10th February 2021* by *M.Samba Siva Rao*. The seminar focused on two of the most influential computing paradigms shaping the future of data processing, storage, and digital infrastructure. The event attracted enthusiastic participation from students and faculty members, reflecting a strong interest in understanding modern computing technologies and their real-world applications.

Edge Computing vs. Cloud Computing



The primary objective of the seminar was to create awareness about the fundamental concepts, advantages, limitations, and use cases of both Edge Computing and Cloud Computing. In today's technology-driven world, data generation has increased exponentially due to the growth of *Internet of Things (IoT) devices, artificial intelligence applications, and smart systems*. This seminar aimed to help participants understand how different computing models address these challenges and support efficient data management.

The seminar sessions were led by experienced speakers from academia and industry who shared their valuable insights and expertise. The speakers began by introducing *Cloud Computing*, explaining its centralized architecture, scalability, and ability to handle massive volumes of data. They highlighted how cloud platforms provide on-demand access to *computing resources, storage, and services, making them ideal for large-scale applications, enterprise solutions, and global data management*. Real-world examples were discussed to help students understand how cloud computing is widely used in areas such as *web services, data analytics, and machine learning*.

The discussion then transitioned to Edge Computing, a rapidly emerging paradigm that brings computation and data processing closer to the source of data generation. The speakers explained how edge computing reduces latency, improves response time, and minimizes bandwidth usage by processing data locally rather than relying entirely on centralized cloud servers. This approach was emphasized as particularly beneficial for time-sensitive applications such as autonomous vehicles, smart healthcare systems, industrial automation, and smart cities.

A comparative analysis of Edge Computing and Cloud Computing formed the core of the seminar. Participants gained clarity on how cloud computing excels in centralized processing and scalability, while edge computing is more effective for real-time decision-making and low-latency requirements. The speakers also addressed the challenges associated with both paradigms, including security concerns, infrastructure costs, data management complexities, and deployment issues.

The seminar placed strong emphasis on the *integration of Edge and Cloud Computing, highlighting how modern systems often combine both approaches to achieve optimal performance*. Students were introduced to hybrid models where edge devices handle real-time processing while cloud platforms manage large-scale analytics and long-term storage. This discussion helped participants appreciate the complementary nature of these technologies rather than viewing them as competing solutions.

One of the most engaging aspects of the seminar was the interactive discussion session. Students actively participated by asking questions, sharing their perspectives, and discussing potential applications of edge and cloud computing in emerging domains such as artificial intelligence, cybersecurity, data science, and smart infrastructure. These interactions encouraged critical thinking and helped students connect theoretical concepts with practical implementations.

Beyond technical knowledge, the seminar also emphasized the importance of adaptability and continuous learning in the field of computer science. The speakers motivated students to stay updated with technological advancements, pursue certifications, and explore research opportunities related to modern computing technologies. The session highlighted how understanding such concepts can enhance career readiness and open pathways to roles in cloud architecture, system design, and emerging technology development.

The Seminar Spotlight event successfully achieved its objectives by enhancing participants' technical awareness and encouraging innovative thinking. Students gained a deeper understanding of how computing paradigms are evolving to meet the demands of data-intensive and real-time applications. The seminar also provided valuable networking opportunities, allowing students to interact with experts and gain insights into industry expectations and trends.

In conclusion, the Seminar Spotlight on “Edge Computing vs. Cloud Computing”, held on *10th February 2021*, was a highly informative and impactful academic event. It strengthened students' conceptual understanding, broadened their technological perspective, and prepared them to face future challenges in the digital era. Through such seminars, *our college continues to demonstrate its commitment to academic excellence and the holistic development of students, empowering them to thrive in the ever-changing world of technology.*

In addition to technical enrichment, the seminar also played a *vital role in enhancing students' professional awareness*. The speakers discussed current industry trends and explained *how Edge Computing and Cloud Computing are influencing modern software architectures and digital transformation strategies*. Students were introduced to real-time industry use cases, enabling them to understand how these technologies are implemented in sectors such as healthcare, finance, smart manufacturing, transportation, and smart city development. This exposure helped bridge the gap between academic learning and industry expectations.

The seminar further emphasized the importance of data security, privacy, and system reliability in both computing models. *Participants gained insights into the security challenges associated with centralized cloud infrastructures as well as distributed edge environments*. Discussions on data protection, secure communication, and system maintenance helped students develop a holistic understanding of the responsibilities involved in designing and managing modern computing systems.

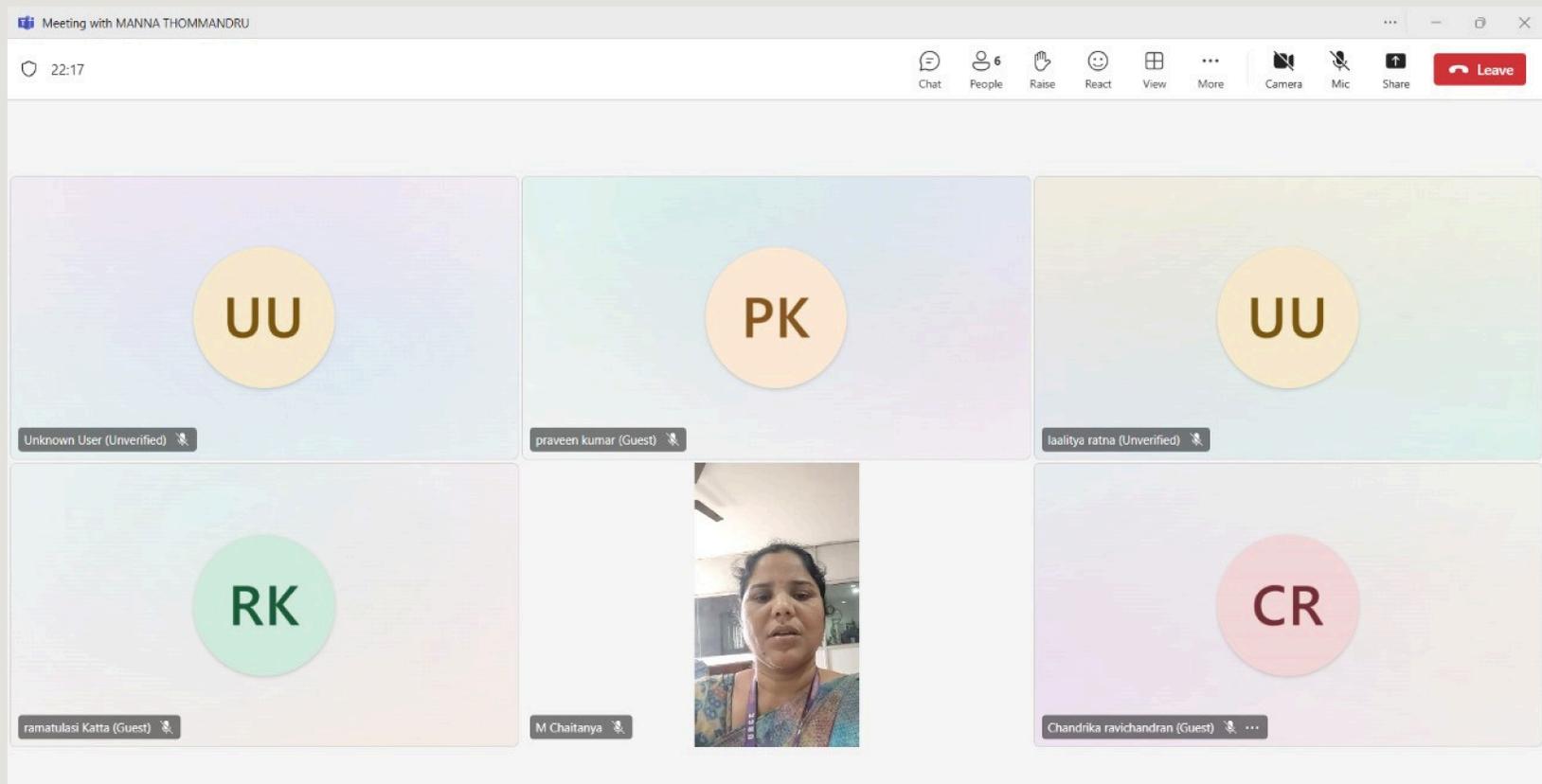
Another important outcome of the seminar was the encouragement of research-oriented thinking among students. The speakers highlighted emerging research areas related to edge intelligence, distributed systems, and hybrid cloud-edge architectures. Students were motivated to explore these domains through mini-projects, internships, certifications, and higher studies. The seminar thus acted as a catalyst for academic curiosity and long-term skill development.

Faculty members actively participated in the seminar, contributing to discussions and encouraging students to reflect on the applicability of the concepts in their coursework and laboratory sessions. The interactive environment fostered meaningful academic dialogue and reinforced the importance of continuous professional development for both students and faculty.

The event concluded with a brief feedback session, where participants expressed their appreciation for the informative and engaging nature of the seminar. Many students highlighted that the session clarified complex concepts and helped them understand the practical relevance of modern computing paradigms. The positive feedback reflected the success of the seminar in achieving its learning objectives.

Overall, the Seminar Spotlight initiative continues to serve as a valuable academic platform for knowledge enhancement and professional growth. The seminar on “Edge Computing vs. Cloud Computing” not only strengthened students' technical foundations but also prepared them to adapt to the rapidly changing technological environment. *By organizing such events, the institution reaffirms its commitment to academic excellence, innovation, and the holistic development of students, ensuring they are well-equipped to meet future technological and industry challenges*.

3.SLIDE STORIES



VIRTUAL VISION

The Department of Computer Science and Engineering (CSE) of our college successfully organized an online PowerPoint presentation event titled “*Virtual Vision*” on *9th March 2021* by *M.Chaitanya* under the initiative Slide Stories. *The event was conducted with the objective of providing students a dynamic platform to present their ideas, enhance their technical understanding, and develop effective presentation and communication skills.* The online mode of the event ensured wide participation while maintaining academic engagement in a structured and interactive manner.

“Virtual Vision” was designed to encourage students to explore emerging and innovative topics in the field of computer science. In today’s rapidly evolving technological environment, it is essential for students not only to acquire technical knowledge but also to articulate their ideas clearly and confidently. The event aimed to bridge this gap by allowing participants to present research-oriented and application-based topics, thereby strengthening both their academic and professional competencies.

The event witnessed enthusiastic participation from students across different academic years. Participants selected a wide range of topics related to current and emerging technologies such as artificial intelligence, machine learning, cybersecurity, data science, cloud computing, Internet of Things (IoT), blockchain, and software development trends. *This diversity of topics reflected the students’ curiosity, awareness, and willingness to engage with modern technological advancements.*

Each participant delivered a structured and well-prepared presentation, showcasing their understanding of the chosen topic through visually appealing slides and clear explanations. Students demonstrated creativity in content design, clarity in concept explanation, and confidence in presentation delivery. The event encouraged independent learning and research, as participants were required to gather information from credible sources and organize it effectively within the given time frame

A panel of experienced faculty members from the CSE department evaluated the presentations. The evaluation criteria included content quality, technical depth, clarity of explanation, originality of ideas, slide design, and presentation skills. The panel ensured fair and constructive assessment, providing valuable insights and suggestions to help students improve their academic performance and presentation abilities.

One of the key strengths of “Virtual Vision” was its emphasis on knowledge sharing and critical thinking. Participants not only presented their own work but also learned from their peers by observing different presentation styles, topic approaches, and explanation techniques. This peer-learning environment fostered healthy competition while maintaining a collaborative and supportive atmosphere.

The online format of the event helped students adapt to virtual professional environments, which are increasingly common in academic conferences, corporate meetings, and technical seminars. Students gained hands-on experience in managing time, maintaining audience engagement, and handling questions in an online setting. These experiences are essential for preparing students for future academic presentations, interviews, and workplace interactions.

“Virtual Vision” also played a significant role in enhancing students’ communication and articulation skills. By presenting complex technical concepts in a simplified and structured manner, students learned how to tailor their communication based on audience understanding. This ability to convey ideas clearly is a crucial skill for success in both technical and non-technical roles.

The event concluded with an interactive question-and-answer session, where faculty members and fellow participants actively engaged with the presenters. Students received constructive feedback regarding their content organization, technical accuracy, and presentation delivery. This feedback helped participants identify areas of improvement and encouraged them to refine their skills further.

Faculty members appreciated the effort and dedication shown by the students in preparing and delivering high-quality presentations. The feedback session also motivated students to pursue deeper research, improve their public speaking abilities, and stay updated with emerging trends in computer science. The interaction between faculty and students strengthened academic mentorship and promoted a culture of continuous improvement.

Beyond academic learning, “Virtual Vision” nurtured essential professional skills such as confidence building, critical analysis, teamwork, and adaptability. Students learned how to respond to questions thoughtfully, accept feedback positively, and present themselves professionally in a competitive environment. These skills are invaluable for career readiness and personal development.

The success of “Virtual Vision” highlighted the CSE department’s commitment to fostering innovative and student-centered learning experiences. By organizing such events, the department encourages students to go beyond textbooks and engage actively with real-world technological challenges. The event reinforced the importance of continuous learning, creativity, and effective communication in the field of computer science.

The active participation and enthusiasm displayed by the students reflected the effectiveness of the event in promoting independent learning and intellectual curiosity. By selecting and presenting diverse topics from contemporary areas of computer science, participants demonstrated a strong awareness of current technological trends and a willingness to engage with advanced concepts. The event reinforced the importance of research-based learning and encouraged students to move beyond theoretical knowledge towards practical understanding.

One of the most significant outcomes of “Virtual Vision” was the development of essential professional competencies among students. The online format of the event enabled participants to gain firsthand experience in virtual presentation environments, which are increasingly relevant in today’s academic and corporate settings. *Students learned to manage time efficiently, present confidently in an online platform, and respond effectively to questions and feedback, thereby improving their overall professional readiness.*

The role of faculty members in evaluating the presentations and providing constructive feedback was instrumental in enhancing the learning experience. Their guidance helped students identify their strengths and areas for improvement, fostering a mindset of continuous self-development. The interactive feedback and question-and-answer sessions promoted healthy academic dialogue and strengthened the mentor-student relationship within the department.

Furthermore, the event contributed to creating a collaborative and competitive learning atmosphere where students could learn from their peers. Observing different presentation styles, content structures, and explanation techniques enriched the participants’ understanding and encouraged them to adopt best practices. This peer-learning approach added significant value to the overall success of the event.

In conclusion, *“Slide Stories – Virtual Vision” stood out as a meaningful academic endeavor that supported the holistic development of students.* The event not only enhanced technical knowledge but also strengthened communication skills, critical thinking, and confidence. Such initiatives reflect the Department of Computer Science and Engineering’s commitment to academic excellence, innovation, and student empowerment. *By organizing events like “Virtual Vision,” the department continues to prepare students to meet future academic, professional, and technological challenges with competence, creativity, and confidence.*

4. TECH FOR CHANGE



Tech Revolution 2021: Innovating the Future

The rapid evolution of technology has become a defining force in shaping modern society, influencing industries, education, communication, and daily life. Recognizing the importance of staying aligned with these advancements, our institution successfully organized “*Tech Revolution 2021: Innovating the Future*” on *25th March 2021* by *Dr.K P N V Satya Sree* under the theme “Tech for Change.” The event was designed to provide students, faculty members, and technology enthusiasts with a comprehensive platform to explore emerging technologies and understand their role in driving innovation and sustainable development.

Tech Revolution 2021 was conducted as a two-day event, bringing together innovators, developers, researchers, and technology enthusiasts to engage in discussions and hands-on activities focused on the future of technology. The event aimed to create awareness about the latest technological trends while encouraging participants to think critically about how technology can be used as a tool for positive change in society.

The primary objective of the event was to expose participants to *cutting-edge technological domains such as Artificial Intelligence (AI), Blockchain Technology, Internet of Things (IoT), and Sustainable Technology Solutions*. In an era where digital transformation is reshaping every sector, the event sought to bridge the gap between theoretical knowledge and real-world applications by providing insights from industry experts and experienced professionals.

The inaugural session set the tone for the event by emphasizing the importance of innovation, adaptability, and continuous learning. Speakers highlighted how technological revolutions have historically transformed societies and how the current digital revolution presents immense opportunities for those who are prepared to embrace change. *Participants were encouraged to view technology not merely as a career path but as a powerful medium to solve real-world problems.*

In addition to workshops, the event featured panel discussions that brought together experts from various technology domains. The panelists shared their experiences, challenges, and success stories, offering participants a realistic perspective on the technology industry. Discussions revolved around topics such as the future of artificial intelligence, ethical considerations in technology, data security, decentralization through blockchain, and the role of technology in achieving sustainability goals.

A key highlight of Tech Revolution 2021 was the emphasis on innovation and creativity. Participants were introduced to cutting-edge gadgets, prototypes, and software solutions that demonstrated how technology is being used to address complex challenges. From smart devices and automation systems to intelligent software platforms, the event showcased how innovation is shaping a smarter and more connected world.

The theme “Tech for Change” was deeply integrated into the event sessions, encouraging participants to think beyond commercial applications of technology. Discussions focused on how emerging technologies can contribute to social development, environmental sustainability, healthcare improvement, smart infrastructure, and inclusive growth. Students were motivated to consider how their technical skills could be applied to create solutions that have a positive societal impact.

The event also provided an excellent networking opportunity for participants. Students interacted with industry professionals, gaining insights into current market trends, skill requirements, and career opportunities. These interactions helped students understand industry expectations and motivated them to pursue further learning, certifications, and research in advanced technological fields.

Tech Revolution 2021 fostered an environment of collaborative learning and knowledge sharing. Participants exchanged ideas, discussed innovative concepts, and explored potential applications of emerging technologies. The collaborative atmosphere encouraged teamwork, critical thinking, and problem-solving, which are essential skills for success in the modern technology landscape.

The two-day event concluded with a reflection session where participants shared their learning experiences and feedback. Many students expressed that the event broadened their understanding of modern technologies and inspired them to explore new areas of interest. Faculty members appreciated the practical orientation of the event and its relevance to academic curricula and industry needs.

Overall, Tech Revolution 2021: Innovating the Future proved to be a landmark event that successfully met its objectives. It strengthened participants’ technical knowledge, encouraged innovative thinking, and highlighted the transformative power of technology. The event reinforced the importance of adaptability and lifelong learning in a rapidly evolving digital world.

In conclusion, Tech Revolution 2021 was not merely a technological event but a vision of the future driven by innovation, responsibility, and sustainability. *By bringing together knowledge, creativity, and real-world insights, the event empowered participants to embrace the possibilities of tomorrow’s technology.* Through initiatives like Tech Revolution 2021, the institution continues to demonstrate its commitment to academic excellence, innovation, and preparing students to become responsible technologists and future leaders in the digital era.

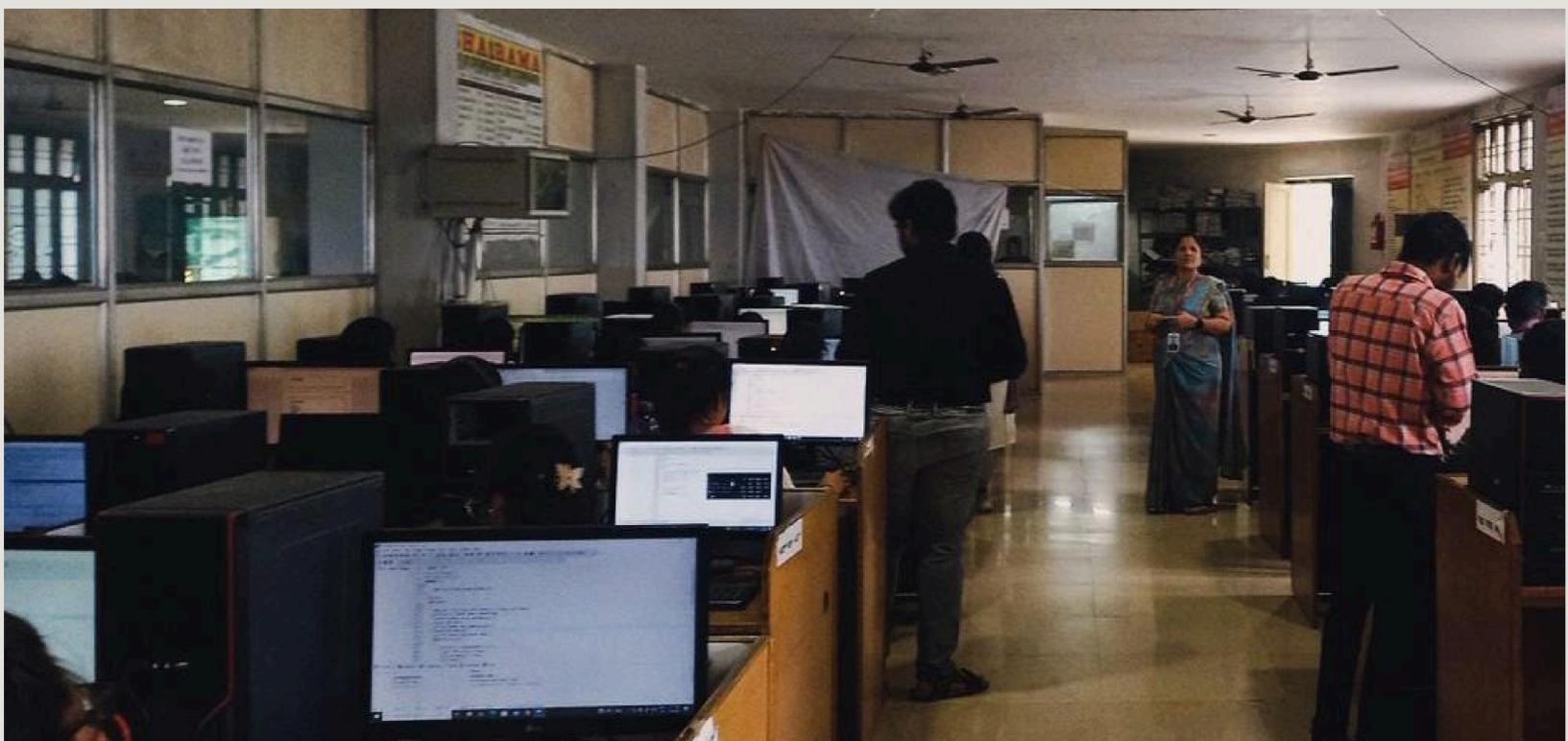
One of the most significant achievements of Tech Revolution 2021 was its emphasis on innovation with a purpose. *By aligning technological development with societal and environmental needs, the event encouraged participants to think critically about the role of technology in driving positive change.* Students were inspired to view technology as a solution-oriented tool capable of addressing global challenges related to sustainability, connectivity, and inclusive growth.

The event also played an important role in preparing students for the evolving demands of the technology industry. Interactions with industry experts provided valuable insights into current market trends, skill requirements, and future career opportunities. These discussions emphasized the importance of adaptability, continuous learning, and ethical responsibility in a rapidly changing technological landscape.

In addition to technical enrichment, Tech Revolution 2021 contributed significantly to the development of essential professional skills. Participants enhanced their abilities in communication, collaboration, problem-solving, and critical thinking. The collaborative learning environment encouraged the exchange of ideas and fostered confidence among students, preparing them for future academic and professional challenges.

The positive feedback received from participants reflected the overall success and impact of the event. Students expressed that the sessions broadened their perspectives and motivated them to further explore emerging technologies through projects, research, and skill development initiatives. Faculty members also recognized the event's relevance in complementing academic curricula and promoting experiential learning.

In conclusion, *Tech Revolution 2021: Innovating the Future was not merely a technological event but a forward-looking initiative that empowered participants to embrace innovation responsibly. By integrating knowledge, creativity, and real-world insights, the event left a lasting impression on all attendees.* Such initiatives continue to strengthen the institution's mission of nurturing future-ready technologists who are equipped to contribute meaningfully to society and the ever-evolving digital world.



5. VISION VIEWS



TECH VISION-2021

The Department of Computer Science and Engineering successfully organized *TechVision 2021*, a PowerPoint presentation competition, on *1st April 2021* by *B.V.Praveen Kumar* under the initiative Vision Views. The event was designed with the objective of fostering innovative thinking, creativity, and technical awareness among students. TechVision 2021 served as an academic platform that encouraged budding technologists to explore emerging trends in computer science and present innovative solutions to real-world problems.

In the rapidly evolving technological landscape, the ability to think creatively and communicate ideas effectively is as important as technical expertise. *TechVision 2021 was conceptualized to bridge this gap by providing students with an opportunity to research, analyze, and present contemporary technological concepts in a structured and competitive environment.* The event reflected the department's commitment to holistic student development and experiential learning.

Objectives of TechVision 2021

The primary objectives of TechVision 2021 were:

- To encourage students to explore emerging technologies and innovative ideas
- To enhance research orientation and analytical thinking
- To improve presentation, communication, and technical articulation skills
- To promote problem-solving approaches for real-world challenges
- To create awareness about the role of technology in sustainable and societal development

By aligning technical learning with creativity and communication, the event aimed to prepare students for academic excellence and professional success.

Event Overview

TechVision 2021 witnessed enthusiastic participation from students across different academic years. The competition focused on diverse and relevant domains such as *Artificial Intelligence, Cybersecurity, Internet of Things (IoT), Data Science, Cloud Computing, and Sustainable Computing*. Participants were encouraged to choose topics that demonstrated innovation, practicality, and societal relevance.

Each participant presented their ideas using well-structured *PowerPoint slides, highlighting problem identification, proposed solutions, technical feasibility, and future scope*. The diversity of topics reflected students' growing awareness of current technological trends and their potential impact on society.

Participation and Presentation Highlights

Participants demonstrated exceptional creativity and technical depth through their presentations. Many students presented novel approaches to existing problems, integrating modern technologies with innovative thinking. The presentations showcased:

Clear understanding of technical concepts

Logical problem analysis

Innovative and feasible solutions

Effective use of visual aids

Confident and professional presentation delivery

The event encouraged students to move beyond textbook knowledge and apply concepts in a practical and meaningful way.

Evaluation Process

A panel of experienced faculty members from the Computer Science and Engineering department evaluated the presentations. The evaluation was conducted in a fair and transparent manner based on the following criteria:

Relevance and originality of the topic

Technical accuracy and depth

Innovation and creativity

Clarity of explanation

Presentation design and communication skills

The panel also provided constructive feedback, helping students understand their strengths and areas for improvement. This feedback played a crucial role in enhancing students' confidence and learning outcomes.

Learning Outcomes and Skill Development

TechVision 2021 significantly contributed to the academic and professional growth of students. The event helped participants develop:

- Research and analytical skills
- Critical thinking and innovation
- Public speaking and communication abilities
- Confidence in presenting technical ideas
- Time management and content organization skills

Role of Innovation and Real-World Problem Solving

One of the major strengths of TechVision 2021 was its focus on real-world problem solving. Participants addressed issues related to cybersecurity threats, automation, smart systems, environmental sustainability, and digital transformation. This approach encouraged students to think beyond conventional boundaries and view technology as a tool for social and economic development.

The emphasis on sustainable computing and ethical technology use further reinforced the importance of responsible innovation in today's digital era.

Faculty Involvement and Academic Support

Faculty members played a vital role in the success of TechVision 2021. Their guidance and encouragement helped students refine their ideas and presentation strategies. The interaction between faculty and students fostered a supportive academic environment that promoted continuous learning and improvement.

Faculty members also highlighted the relevance of such events in complementing classroom learning and preparing students for future academic and industry challenges.

Impact of the Event

TechVision 2021 created a positive and motivating academic atmosphere within the department. The event inspired students to actively participate in technical competitions, seminars, and innovation-driven activities. Many participants expressed increased interest in pursuing research projects, certifications, and advanced studies in emerging technologies.

The competition also enhanced students' readiness for future opportunities such as technical interviews, conferences, and professional presentations.

Conclusion

TechVision 2021, organized under Vision Views on 1st April 2021, was a remarkable success that achieved its intended objectives. The event provided a valuable platform for students to showcase their innovative ideas, strengthen their technical knowledge, and enhance essential communication skills. By encouraging creativity, critical thinking, and real-world problem solving, TechVision 2021 contributed significantly to the holistic development of students.

The success of the event reaffirmed the Department of Computer Science and Engineering's commitment to nurturing innovation, academic excellence, and future-ready professionals. *Through initiatives like TechVision 2021, the department continues to inspire young minds to explore, innovate, and contribute meaningfully to the ever-evolving world of technology.*

6. IOT AND SECURITY WORKSHOP



Three-Day Workshop on IoT and Security

The Department of Computer Science and Engineering at Usha Rama College of Engineering and Technology successfully

organized a Three-Day Workshop on “*IoT and Security*” from *18th to 20th May 2021* by *Ch.Phani Kumar*. The workshop was designed to provide students with comprehensive theoretical knowledge and extensive hands-on experience in the rapidly expanding field of the Internet of Things (IoT), along with a strong emphasis on security aspects in connected environments.

With the increasing adoption of smart devices and interconnected systems, IoT has become one of the most influential technologies in modern computing. However, the growth of IoT has also introduced serious security challenges such as data breaches, unauthorized access, and system vulnerabilities. Recognizing the importance of equipping students with both technical and security knowledge, the workshop aimed to bridge the gap between academic learning and real-world IoT applications.

The workshop witnessed active participation from students of the Computer Science and Engineering department, who showed great enthusiasm and interest throughout all three days. The sessions were structured to gradually build students’ understanding, starting from basic IoT concepts and hardware components to cloud integration and security implementation.

Objectives of the Workshop

The primary objectives of the Three-Day Workshop on IoT and Security were:

- To introduce students to the fundamentals of IoT and its real-world applications
- To provide hands-on experience with IoT hardware and sensors
- To explain communication protocols used in IoT systems
- To demonstrate cloud integration and real-time data visualization
- To create awareness about security challenges in IoT environments
- To introduce basic security mechanisms and best practices in IoT deployments

By achieving these objectives, the workshop aimed to prepare students to design, implement, and secure IoT-based solutions effectively.

Day 1 – Introduction to IoT and Hardware Basics

Focus

Understanding the foundations of IoT and gaining familiarity with essential hardware components.

Session Highlights

The first day of the workshop focused on building a strong foundation in IoT concepts and hardware fundamentals. The sessions began with an introduction to IoT, explaining how physical devices are connected to the internet to collect, exchange, and analyze data. Real-world applications of IoT were discussed, including smart homes, healthcare monitoring systems, industrial automation, agriculture, and smart cities.

Students were introduced to the IoT architecture, including perception, network, and application layers. Communication models and data flow in IoT systems were explained in a simple and structured manner to help students understand how devices interact within an IoT ecosystem.

A major highlight of Day 1 was the hands-on hardware session. Students worked with components such as Arduino boards, NodeMCU, and basic sensors including DHT11, IR sensors, and Ultrasonic sensors. They learned how to connect sensors, write basic programs, and interact with hardware components.

Practical activities included:

LED blinking programs

Sensor integration and testing

Data collection from environmental sensors

Outcomes of Day 1

- Students gained a clear understanding of IoT fundamentals
- Learned how to work with basic IoT hardware components
- Built simple circuits and successfully interfaced sensors
- Developed confidence in handling hardware-based projects

Day 2 – IoT Communication and Cloud Integration

Focus

Learning how IoT devices communicate and how data is stored and visualized securely in the cloud.

Session Highlights

The second day focused on communication protocols and cloud platforms used in IoT systems. Students were introduced to MQTT protocol and HTTP REST APIs, which are widely used for data transmission in IoT environments. The importance of lightweight communication and efficient data transfer was emphasized.

Hands-on sessions enabled students to interface sensors with NodeMCU and transmit data wirelessly. Students learned how sensor data is collected, processed, and sent to cloud platforms for storage and analysis.

Cloud integration was demonstrated using popular platforms such as ThingSpeak and Blynk. Students created dashboards and visualized real-time sensor data in graphical formats. These activities helped them understand how IoT solutions are monitored and managed remotely.

Outcomes of Day 2

- Students successfully transmitted sensor data to cloud platforms
- Understood real-time data visualization and dashboard creation
- Learned how IoT systems communicate efficiently and securely
- Gained exposure to industry-relevant IoT tools and platforms

Day 3 – Security in IoT Systems

Focus

Understanding vulnerabilities in IoT systems and implementing basic security practices.

Session Highlights

The third day of the workshop emphasized the critical importance of security in IoT systems. Students were introduced to common IoT security challenges such as data breaches, unauthorized access, weak authentication, and insecure communication.

Cybersecurity principles relevant to IoT networks were discussed, including data confidentiality, integrity, and authentication. Demonstrations were conducted to show how unsecured IoT systems can be exploited and how basic security layers can prevent such attacks.

Students were introduced to basic encryption methods and secure data transmission techniques. Best practices for securing IoT devices and networks were explained, including firmware updates, strong authentication, secure communication protocols, and network monitoring.

Outcomes of Day 3

- Students became aware of IoT security risks and vulnerabilities
- Learned the importance of implementing security from the design stage
- Understood how to apply basic encryption and security measures
- Gained knowledge of best practices for secure IoT deployments

Overall Learning Outcomes and Impact

The Three-Day Workshop on IoT and Security significantly enhanced students' technical and practical knowledge. The workshop helped students develop:

- Strong understanding of IoT concepts and architectures
- Hands-on experience with hardware and sensors
- Skills in cloud integration and data visualization
- Awareness of cybersecurity challenges in IoT environments
- Ability to design secure and reliable IoT applications

Students actively participated in discussions and practical sessions, making the learning experience interactive and effective. The workshop also encouraged teamwork, problem-solving, and analytical thinking.

Conclusion

The Three-Day Workshop on “IoT and Security”, conducted from 18th to 20th May 2021, was a highly successful and impactful academic initiative. The workshop empowered students with comprehensive knowledge of IoT technologies while highlighting the critical importance of security in connected systems.

Through hands-on exposure to hardware, cloud platforms, and cybersecurity practices, participants gained practical skills that are essential for real-world IoT applications.

The event effectively bridged the gap between theoretical concepts and industry requirements, preparing students to innovate and implement secure IoT solutions. The Department of Computer Science and Engineering remains committed to organizing such skill-oriented programs that enhance students' technical competence and professional readiness, ensuring they are well-equipped to meet future technological challenge.

7. CODE RELAY

Hackathon



Introduction

The Department of Computer Science and Engineering successfully organized *Code Relay*, a dynamic and team-based coding competition, on *27th May 2021* by *B.V.Praveen Kumar*. The event was designed to enhance collaborative problem-solving skills, logical thinking, and effective teamwork among students. Unlike conventional individual coding contests, Code Relay introduced a unique and engaging format where participants worked together in teams, contributing sequentially to solve a series of coding challenges within a limited time frame.

In today's software-driven world, most real-life projects are developed collaboratively rather than individually. Recognizing this industry reality, *Code Relay was conceptualized to simulate real-world software development environments where developers work in teams, build upon each other's code, debug collaboratively, and optimize solutions efficiently*. The event created an exciting and competitive atmosphere while simultaneously fostering cooperation and mutual learning among participants.

Objectives of Code Relay

The primary objectives of the Code Relay competition were:

- To promote teamwork and collaborative problem-solving
- To enhance coding efficiency and logical reasoning
- To encourage effective communication among team members
- To develop time management and decision-making skills
- To simulate real-world team-based software development environments
- To improve debugging, optimization, and code-review skills

By achieving these objectives, the event aimed to prepare students for technical interviews, hackathons, internships, and industry-level software development challenges.

Event Structure and Format

The Code Relay competition was conducted with teams consisting of 3 to 5 members, ensuring balanced participation and effective collaboration. Each team was assigned a set of coding tasks divided into multiple stages. Unlike traditional contests where a single participant completes an entire problem, Code Relay required each team member to contribute sequentially.

The competition began with the first team member initiating the coding task. After a predefined time limit or upon completing their assigned portion, the code was passed to the next teammate. This relay-style handoff continued until the final member completed the task. In certain stages, participants were required to debug or optimize the code written by the previous member, adding an additional layer of complexity and strategic thinking.

This structured approach tested not only individual technical skills but also the team's ability to coordinate, communicate, and adapt under pressure.

Teamwork and Strategic Planning

One of the defining aspects of Code Relay was its emphasis on team strategy and coordination. Teams were encouraged to plan their approach before the competition began. Assigning tasks based on individual strengths—such as logic building, debugging, optimization, or syntax expertise played a crucial role in overall performance.

Clear communication was essential to ensure smooth transitions between team members. Participants needed to understand the logic and structure of the existing code quickly before continuing work. This process emphasized the importance of writing clean, readable, and well-documented code.

Teams that effectively delegated roles, maintained clarity during handoffs, and adapted to challenges demonstrated superior performance. The competition highlighted how strong coordination and planning can significantly impact the success of a technical project.

Technical Skills and Learning Experience

Code Relay offered participants an opportunity to enhance multiple technical competencies. Students practiced:

Writing efficient and optimized code

Debugging and correcting logical errors

Improving code readability and structure

Applying algorithms under time constraints

The requirement to work on another team member's code closely resembled real-world development scenarios, where developers often maintain or extend existing systems. This experience helped students understand the importance of standardized coding practices, consistent formatting, and proper documentation.

Additionally, the competition improved participants' adaptability, as students had to quickly analyze unfamiliar code and continue development without disrupting existing functionality.

Communication and Collaboration

Effective communication was a key factor in the success of Code Relay teams. Participants had to explain their approach clearly during handoffs and ensure that the next team member understood the logic and objectives. This strengthened interpersonal skills and emphasized the importance of collaborative dialogue in technical environments.

The competition encouraged the use of collaborative techniques such as:

- Brief verbal explanations during transitions
- Clear naming conventions and comments in code
- Shared understanding of project goals

Benefits of Code Relay

The Code Relay competition provided numerous benefits to participants:

Enhanced teamwork: Encouraged cooperation and collective problem-solving

Improved problem-solving skills: Required quick thinking and adaptability

Time management: Emphasized efficient coding within strict deadlines

Real-world exposure: Simulated industry-style collaborative development

Confidence building: Helped students trust both their own and teammates' skills

The event also motivated students to actively participate in team-based competitions, hackathons, and collaborative projects in the future.

Code Relay Enhancements and Strategic Considerations

To further strengthen the effectiveness of Code Relay competitions, several enhancement strategies were emphasized:

Optimize team coordination by ensuring smooth transitions between participants

Implement clear handoff protocols to avoid confusion during code transfers

Establish standardized coding practices using enforced style guidelines

Utilize automated linters to maintain code consistency and quality

Assign roles strategically based on individual strengths

Set clear objectives for each relay phase

Integrate real-time collaboration tools for communication and issue tracking

Emphasize rigorous testing and validation after each stage

Leverage version control systems to track changes and prevent conflicts

Promote documentation and briefings before and after each relay segment

Encourage adaptability with backup plans and alternative strategies

Use performance metrics to assess individual and team contributions

Conduct post-event reviews to analyze performance and improvement areas

Foster mentorship and a supportive environment to enhance team dynamics

These strategies ensured continuous improvement and helped participants understand best practices followed in professional software development.

Impact and Student Feedback

The Code Relay competition received positive feedback from participants, who appreciated the innovative format and collaborative learning experience. Many students expressed that the event improved their understanding of teamwork, code maintenance, and communication in technical projects.

Faculty members also recognized the event's value in preparing students for industry-oriented challenges. The competition successfully bridged academic learning with practical, real-world development practices.

Conclusion

The Code Relay, conducted on 27th May 2021, was a highly engaging and impactful technical event that went beyond traditional coding competitions. By emphasizing teamwork, coordination, and strategic thinking, the event provided students with a realistic experience of collaborative software development.

8. CYBER SHIELD



Challenge the Hack. Channel the Shield.

Introduction

The Department of Computer Science and Engineering (CSE) at Usha Rama College of Engineering and Technology proudly organized the Cyber Security Awareness Quiz – “*Cyber Shield*” on *11th June 2021* by *T.Naga Mounika*. The event was designed as an interactive and knowledge-driven initiative to enhance cybersecurity awareness among students and aspiring professionals. *With cyber threats increasing at an unprecedented rate, the need for cybersecurity literacy has become essential across all domains, making this event both timely and highly relevant.*

Cyber Shield aimed to educate participants on fundamental and advanced cybersecurity concepts through an engaging quiz-based format. The event not only tested participants’ technical knowledge but also encouraged them to develop a security-conscious mindset essential for both personal and professional digital environments.

About the Event

In today’s interconnected digital world, cybersecurity is no longer limited to IT professionals alone. Every individual who uses digital devices and online services is exposed to potential cyber risks such as phishing attacks, malware infections, data breaches, and identity theft. *The Cyber Security Awareness Quiz was conceptualized to address these concerns by educating participants about cyber threats, preventive measures, and ethical practices.*

The event focused on building awareness about:

Common and emerging cyber threats

Secure online practices

Network and system security fundamentals

Ethical and legal aspects of cybersecurity

By promoting awareness and responsibility, Cyber Shield aimed to contribute towards creating a safer and more resilient digital community.

Objectives of Cyber Shield

The primary objectives of the Cyber Security Awareness Quiz were:

To create awareness about cybersecurity threats and vulnerabilities

To educate participants on best practices for digital safety

To enhance analytical and critical thinking skills in cybersecurity

To introduce ethical hacking and incident response concepts

To promote responsible and ethical use of technology

To encourage students to explore careers in cybersecurity

These objectives aligned with the department's commitment to holistic technical education and industry readiness.

Event Format and Structure

The Cyber Shield quiz was structured into four competitive rounds, each designed to test participants at increasing levels of difficulty. Each round consisted of 20 carefully curated questions, ranging from basic awareness to advanced cybersecurity concepts. This structured approach ensured a progressive learning experience while maintaining competitiveness and engagement.

The quiz format encouraged quick thinking, accuracy, and conceptual clarity. Participants were evaluated on both correctness and analytical reasoning, ensuring a comprehensive assessment of cybersecurity knowledge.

Round 1: Basics of Cyber Security (Easy Level)

Focus

Building foundational awareness of cybersecurity concepts and safe digital practices.

Topics Covered

Introduction to cybersecurity

Importance of strong passwords and authentication

Phishing attacks, social engineering, and email scams

Safe browsing techniques

Identifying malicious and fake websites

Learning Outcomes

Participants developed a strong understanding of basic cyber hygiene practices. They learned how everyday actions such as choosing strong passwords, recognizing phishing attempts, and practicing safe browsing can significantly reduce cyber risks. This round emphasized the importance of personal responsibility in maintaining digital security.

Round 2: Network and Web Security (Moderate Level)

Focus

Understanding how networks and web applications are protected against cyber threats.

Topics Covered

- Fundamentals of network security (firewalls, VPNs, IDS/IPS)
- Web security threats such as SQL injection, XSS, and CSRF
- Secure web browsing and HTTPS implementation
- Public Wi-Fi risks and organizational cybersecurity policies

Learning Outcomes

Participants gained insights into how cyber attacks target networks and web applications. This round helped students understand how security mechanisms protect data during transmission and how vulnerabilities can be exploited if proper safeguards are not implemented.

Round 3: Cryptography and Operating System Security (Advanced Level)

Focus

Exploring data protection techniques and operating system security mechanisms.

Topics Covered

Encryption techniques (symmetric and asymmetric encryption)

Hashing algorithms and secure data storage

Operating system security features (Linux vs. Windows)

Secure access control and privilege escalation risks

Learning Outcomes

This round enhanced participants' understanding of cryptographic principles and system-level security. Students learned how encryption and hashing protect sensitive information and how operating systems enforce access control to prevent unauthorized actions.

Round 4: Threats, Vulnerabilities, and Incident Response (Difficult Level)

Focus

Analyzing real-world cyber threats and response strategies.

Topics Covered

Emerging cyber threats such as ransomware, malware, and zero-day exploits

Ethical hacking and penetration testing methodologies

Incident response processes and digital forensic analysis

Cyber laws, ethics, and major cyber-attack case studies

Learning Outcomes

Participants developed awareness of modern cyber threats and the importance of preparedness and response strategies. The round emphasized ethical responsibility, legal compliance, and the role of cybersecurity professionals in protecting digital infrastructure.

Tagline and Theme

“Challenge the Hack. Channel the Shield.”

The tagline captured the essence of the event by encouraging participants to confront cyber threats proactively and develop defensive skills to protect digital systems. It reinforced the idea that cybersecurity is not just about defense but also about awareness, preparedness, and ethical responsibility.

Importance of Cybersecurity Awareness

In a world where cyber threats are increasingly sophisticated and frequent, cybersecurity awareness is essential for everyone. From securing personal data to protecting organizational systems, informed individuals play a crucial role in maintaining digital safety. Cyber Shield emphasized that cybersecurity is a shared responsibility and that awareness is the first line of defense against cyber attacks.

Impact and Benefits

The Cyber Security Awareness Quiz provided multiple benefits:

- Enhanced cybersecurity knowledge across all difficulty levels
- Improved analytical and problem-solving skills
- Encouraged ethical and responsible technology use
- Motivated students to pursue cybersecurity careers
- Fostered a culture of digital safety and awareness

Participants expressed increased confidence in identifying risks, mitigating threats, and making secure digital decisions.

Conclusion

The Cyber Security Awareness Quiz – Cyber Shield, conducted on 11th June 2021, was a highly successful and impactful initiative by the Department of Computer Science and Engineering. The event effectively combined learning and competition to create an engaging platform for cybersecurity education.

By covering a wide range of topics—from basic cyber hygiene to advanced threat analysis—the quiz empowered participants with essential knowledge and a security-first mindset. Cyber Shield reinforced the importance of awareness, ethics, and responsibility in the digital age.

The Department of CSE remains committed to organizing such meaningful and industry-relevant events that equip students with the skills and awareness required to navigate and protect the digital world confidently.

9. APP DEVELOPMENT WORKSHOP

Introduction

In today's technology-driven world, application development has become a core skill for aspiring software professionals. With the rapid growth of mobile and web-based solutions across industries, there is an increasing demand for developers who can design, build, test, and deploy applications efficiently. Recognizing this need, the Department of Computer Science and Engineering successfully organized a Three-Day App Development Workshop from *27th to 29th July 2021* by *P.Bhagya Sri*.

The workshop was designed as an intensive bootcamp to provide students with hands-on exposure to the complete application development lifecycle. From conceptualizing an idea to designing user interfaces, implementing functionality, and understanding deployment processes, the program offered a holistic learning experience. The workshop catered to both beginners and enthusiastic learners, enabling participants to build a strong foundation in modern app development practices.

Objectives of the Workshop

The primary objectives of the App Development Workshop were:

- To introduce students to the fundamentals of app development
- To familiarize participants with mobile and web application platforms
- To provide hands-on experience in UI/UX design and prototyping
- To teach front-end and back-end development concepts
- To enhance problem-solving and logical thinking skills
- To expose students to testing and deployment methodologies

The workshop aimed to bridge the gap between theoretical learning and practical implementation, preparing students for real-world development environments.



Overview of App Development

The workshop began with an overview of application development and its importance in the modern digital ecosystem. Participants were introduced to different types of applications, including mobile applications, web applications, and hybrid applications. The differences between Android, iOS, and web platforms were explained, along with their use cases and development considerations.

Students were also introduced to commonly used programming languages and tools in app development. Discussions included front-end technologies, back-end frameworks, databases, and development environments. The session emphasized the importance of selecting appropriate tools and technologies based on project requirements.

Day 1 – Foundations of App Development

Focus

Understanding the fundamentals of app development and gaining familiarity with development tools and UI/UX principles.

Session Highlights

The first day laid the groundwork for the entire workshop. Participants were introduced to the basic concepts of application development, including:

- What app development involves
- Key stages in the app development lifecycle
- Roles of developers, designers, and testers

Students learned about mobile and web application architecture, gaining clarity on how front-end, back-end, and databases interact within an application.

A significant portion of Day 1 focused on setting up the development environment. Participants were guided through installing necessary software, development kits, and tools required for app development. This ensured that all participants were technically prepared for hands-on sessions in the following days.

UI/UX Design and Prototyping

User Interface (UI) and User Experience (UX) design formed a major component of Day 1. Students were introduced to the principles of user-centric design, emphasizing usability, accessibility, and visual clarity.

Topics Covered

- Fundamentals of UI and UX design
- Importance of user experience in application success
- Design thinking and user flow concepts
- Wireframing and layout planning

Participants were introduced to popular design and prototyping tools such as Figma, Adobe XD, and Canva. *Hands-on sessions allowed students to create wireframes and interactive prototypes, helping them visualize app layouts before actual development.*

Outcomes of Day 1

- Students gained a strong understanding of app development fundamentals
- Learned how to design user-friendly interfaces
- Created basic wireframes and prototypes
- Understood the importance of design in application usability

Day 2 – Front-End and Back-End Development

Focus

Building functional applications using front-end and back-end technologies.

Session Highlights

The second day focused on transforming designs into functional applications. Students were introduced to front-end development concepts, including layout design, navigation, and user interaction handling. The role of front-end technologies in creating responsive and interactive user interfaces was explained in detail.

Participants also learned about back-end development, which handles data processing, authentication, and business logic. Concepts such as APIs, databases, and server-side logic were introduced in a simplified and practical manner.

Hands-on coding sessions enabled students to:

Connect front-end components to back-end logic

Handle user input and data flow

Understand client-server communication

Outcomes of Day 2

Students learned how applications function internally

Gained practical experience in front-end and back-end integration

Understood how data is stored and retrieved

Improved coding and debugging skills

Day 3 – Testing, Deployment, and Best Practices

Focus

Ensuring application quality and understanding deployment processes.

Session Highlights

The third day emphasized testing and deployment, which are critical stages of the app development lifecycle. Participants were introduced to different testing techniques, including:

Functional testing

UI testing

Performance testing

Basic debugging strategies

The importance of identifying and fixing bugs early was highlighted to ensure application reliability and user satisfaction.

Students were also introduced to deployment concepts, including how applications are hosted and made accessible to users. The session explained deployment processes for web and mobile applications at a conceptual level, helping students understand how apps move from development to production.

Best practices in app development were discussed, including:

Code readability and documentation

Version control basics

Security considerations

Performance optimization

Outcomes of Day 3

Students understood testing methodologies

Learned basic deployment concepts

Gained awareness of industry best practices

Built confidence in completing full application workflows

Learning Outcomes and Skill Development

The App Development Workshop significantly contributed to the technical and professional development of students. Participants developed:

A clear understanding of the app development lifecycle

Hands-on experience in design and development

Improved logical and analytical thinking

Confidence in building and presenting applications

Awareness of modern development tools and practices

The workshop encouraged creativity, experimentation, and independent learning.

Impact of the Workshop

The workshop created a positive learning environment that motivated students to explore application development further. Many participants expressed interest in developing their own apps, pursuing advanced courses, and participating in hackathons and development challenges.

Faculty members observed increased student engagement and practical understanding of concepts taught in classrooms. The workshop effectively bridged academic learning with industry-oriented skills.

Conclusion

The Three-Day App Development Workshop, conducted from 27th to 29th July 2021, was a highly successful and enriching initiative. The workshop empowered students with essential knowledge and hands-on experience in application development, covering every stage from ideation to testing.

By combining theory with practice, the program prepared students to face real-world development challenges with confidence. The Department of Computer Science and Engineering continues to demonstrate its commitment to skill-based learning by organizing such impactful workshops that enhance students' technical competence and career readiness in the ever-evolving field of technology.

10. SOFT SKILLS WORKSHOP

Introduction

In today's highly competitive and technology-driven professional environment, technical expertise alone is not sufficient for career success. Employers increasingly seek individuals who possess strong communication abilities, teamwork skills, adaptability, leadership qualities, and professional etiquette. Recognizing the importance of these competencies, the Department of Computer Science and Engineering organized a *Three-Day Soft Skills Development Workshop on 4th and 5th August 2021 by K.Bhavani.*

The workshop was designed to equip students with essential interpersonal and professional skills required to thrive in the technology industry. Through a combination of interactive sessions, group activities, real-world simulations, and expert guidance, the program focused on holistic student development. The workshop provided students with opportunities to improve communication, enhance collaboration, build self-confidence, and prepare effectively for career challenges.

Objectives of the Workshop

The primary objectives of the Soft Skills Development Workshop were:

- To enhance verbal, written, and non-verbal communication skills
- To promote effective teamwork and collaboration
- To build self-awareness and confidence among students
- To develop personal branding and professional networking skills
- To prepare students for interviews and workplace environments
- To bridge the gap between technical knowledge and professional readiness

The workshop aimed to create industry-ready graduates capable of adapting to diverse professional settings.

Workshop Overview

The three-day workshop was structured to address different aspects of soft skills development, progressing from communication fundamentals to personal growth and finally career readiness. Each day focused on a specific theme and included interactive activities, hands-on tasks, and reflective learning.

Students actively participated throughout the sessions, engaging in discussions, group work, and practical exercises that simulated real-world professional scenarios. The workshop environment encouraged openness, collaboration, and continuous self-improvement.

Day 1 – Communication and Teamwork

Focus

Strengthening communication skills and fostering collaboration in technology-driven environments.

Session Highlights

The first day of the workshop focused on the foundations of effective communication and teamwork. The sessions began with icebreaker activities designed to help students overcome hesitation, build rapport, and create a comfortable learning atmosphere. These activities encouraged interaction and team bonding among participants.

Students were introduced to key aspects of communication, including:

Verbal communication techniques

Written communication skills

Active listening strategies

Non-verbal communication cues

The importance of clarity, empathy, and feedback in professional communication was emphasized through real-life examples and role-playing exercises.

The workshop also introduced students to widely used collaboration and productivity tools such as Slack, Trello, and GitHub. These tools were discussed in the context of modern software development teams, highlighting their role in communication, task management, and version control.

Group Task

A hands-on group activity was conducted where students worked in teams on a web development challenge using HTML and CSS. Teams collaborated using Git-based workflows, enabling them to experience real-world project collaboration and version control.

Outcomes of Day 1

Improved verbal and written communication skills

Enhanced understanding of teamwork dynamics

Practical experience using collaboration tools

Increased confidence in group interactions

Day 2 – Personal Growth and Networking

Focus

Developing self-awareness, professional identity, and networking capabilities.

Session Highlights

The second day of the workshop emphasized personal growth and professional visibility. Students were guided on understanding their strengths, interests, and career goals. Sessions on personal branding highlighted the importance of presenting oneself professionally in both online and offline platforms.

Participants received detailed guidance on:

Resume building and optimization

Structuring resumes for technical roles

Highlighting projects, skills, and achievements

Special emphasis was placed on improving digital presence. Students learned how to create and optimize GitHub and LinkedIn profiles, ensuring alignment with industry expectations. Best practices for showcasing projects, writing professional summaries, and networking responsibly were discussed.

Networking Session

An interactive networking session with alumni and industry professionals was conducted, allowing students to gain insights into career paths, workplace culture, and industry trends. Students actively engaged in discussions, asked questions, and learned effective networking strategies.

Activity

Participants created a personal portfolio webpage using HTML, CSS, and JavaScript, enabling them to showcase their skills, projects, and professional profiles in a structured manner.

Outcomes of Day 2

Enhanced self-awareness and confidence

Stronger personal branding and online presence

Improved networking and communication strategies

A functional portfolio webpage for career use

Day 3 – Career Readiness and Soft Skills

Focus

Preparing students for professional careers through skill mapping, interview preparation, and workplace readiness.

Session Highlights

The third day focused on preparing students for career entry and long-term professional growth. Sessions emphasized career readiness skills, including adaptability, time management, problem-solving, and emotional intelligence.

Students were guided through:

Skill gap analysis and self-assessment

Career path planning and goal setting

Workplace etiquette and professional conduct

Mock interview sessions were conducted to help students understand interview dynamics, body language, and effective response techniques. Feedback sessions enabled participants to identify areas for improvement and build confidence.

The importance of continuous learning, adaptability, and lifelong skill development was reinforced, encouraging students to remain proactive in their career journeys.

Outcomes of Day 3

Improved interview readiness and confidence

Better understanding of workplace expectations

Enhanced emotional intelligence and adaptability

Clearer career goals and professional direction

Overall Learning Outcomes

The Soft Skills Development Workshop had a significant positive impact on participants. Students developed:

Strong communication and collaboration skills

Improved self-confidence and professional awareness

Practical experience with teamwork and networking

Career readiness and interview preparation skills

The workshop complemented technical education by strengthening interpersonal competencies essential for success in the technology industry.

Impact of the Workshop

The workshop created a positive learning environment that encouraged students to reflect on their personal and professional growth. Participants expressed increased confidence in communication, teamwork, and career planning. Faculty members observed improved student engagement and professionalism following the workshop.

The program effectively bridged the gap between academic learning and industry expectations, preparing students to face professional challenges with competence and confidence.

Conclusion

The Three-Day Soft Skills Development Workshop, conducted on 4th and 5th August 2021, was a highly successful initiative by the Department of Computer Science and Engineering. The workshop empowered students with essential soft skills required to succeed in the modern technology industry.

By focusing on communication, teamwork, personal growth, and career readiness, the workshop contributed significantly to the holistic development of students. The Department of CSE continues to demonstrate its commitment to producing well-rounded, industry-ready graduates by organizing such impactful and skill-oriented programs.



STAFF ACHIEVEMENTS

S.No	Faculty Name	Workshop/Training Program	Organization
1	B.V. Praveen Kumar	Celonis Training	Edu Skills
2	M. Samba Siva Rao	Universal Human Values (UHV) FDP	AICTE
3	T. Naga Mounika	Universal Human Values (UHV) FDP	AICTE
4	Ch. Phani Kumar	AWS Academy Cloud Foundation	Edu Skills
5	Ch. Phani Kumar	AWS Solutions Architect	Edu Skills

Our faculty members are the pillars of academic excellence and innovation. With a commitment to teaching, research, and community service, they continue to inspire and shape the future. We proudly recognize the remarkable accomplishments of our faculty, whose dedication has earned accolades, awards, and recognition at state, national, and international levels.

Honoring Excellence in Academia

The Computer Science and Engineering (CSE) department at Usha Rama College of Engineering and Technology has made significant progress in faculty development through participation in various Faculty Development Programs (FDPs), workshops, and industry certifications. Several faculty members have attended FDPs conducted by reputed organizations like AICTE and Edu Skills, focusing on emerging technologies and professional skills.

For instance, *B.V. Praveen Kumar* completed training on Celonis, a leading process mining tool, while *M. Samba Siva Rao* and *T. Naga Mounika* attended an FDP on Universal Human Values (UHV) conducted by AICTE. Similarly, *Ch. Phani Kumar* acquired expertise in AWS Academy Cloud Foundation and AWS Solutions Architecture, ensuring up-to-date knowledge in cloud computing.

These initiatives demonstrate the department's commitment to enhancing faculty expertise, integrating industry standards into the curriculum, and fostering an environment of continuous learning and innovation.

STUDENT ACHIEVEMENTS

SNO	Name of the Student	Name of the event	State/National/International level	Date of Event	Name of the Award If Any
1	Galanki Paul Kishore Babu	Code Combat	STATE SRK College of engineering and technology Bhimavaram,AP	25th june2021	FIRST
2	B.Manikanta	Auto Quiz	STATE KL University Guntur,AP	28th October 2021	FIRST
3	Abdul Mohammed Riyaz	Presencia	STATE SRK College of engineering and technology Bhimavaram,AP	25th june2021	FIRST
4	Thota Geetha Sri	Presencia	STATE SRK College of engineering and technology Bhimavaram,AP	25th june2021	SECOND
5	Matta Akash	Paper Presentation	STATE Krishna University Machilipatnam, AP	3rd Jan 2022	SECOND

The legacy continues as our CSE students aim even higher in the years ahead.

In the academic years 2021 and 2022, the Computer Science and Engineering students of Usha Rama College of Engineering and Technology made a remarkable mark beyond campus boundaries by actively participating in prestigious inter-college competitions. With determination, innovation, and technical brilliance, our CSE achievers secured numerous prizes in coding contests, hackathons, paper presentations, technical quizzes, and project expos conducted by reputed institutions. Their outstanding performances not only demonstrated exceptional problem-solving skills and creativity but also elevated the pride and reputation of our college. These victories stand as a testament to the department's commitment to excellence, continuous mentorship, and the unstoppable spirit of our students who strive to lead, compete, and conquer in every arena.

SNO	Name of the Student	Name of the event	State/National /International level	Date of Event	Name of the Award If Any
1	MD.Nizam Farhan	CodeZers	NATIONAL Kongu Engineering College Erode,TN	1st April 2021	THIRD
2	K.Tarun	FlashCode	NATIONAL Krishna University Machilipatnam ,AP	15th Sept 2021	SECOND
3	K.Sri Pooja	Web App Development	NATIONAL Krishna University Machilipatnam ,AP	15th Sept 2021	FIRST
4	B.Vijaya Durga Prasad	Logic Code	NATIONAL Krishna University Machilipatnam ,AP	15th Sept 2021	THIRD
5	D.Renusri	Code Combat	NATIONAL SRK College of engineering and technology Bhimavaram ,AP	30th March 2022	THIRD
6	S.Sai Krishna	Code Combat	NATIONAL SRK College of engineering and technology Bhimavaram ,AP	30th March 2022	THIRD

STUDENT ARTICLES

Remote Networking: Connecting the World Beyond Wires



Remote networking refers to the practice of establishing and managing network connections over a distance, often through the internet or other long-range communication technologies. It's commonly used in the context of connecting devices, systems, or users that are geographically dispersed.

Here are some key components and technologies involved in remote networking:

1. VPN (Virtual Private Network)

Purpose: VPNs are used to create a secure and private connection over the internet, allowing remote users to access a company's internal network safely.

How it Works: It encrypts the data sent over the internet, preventing unauthorized access, and creates a private "tunnel" for communication.

Use Case: Employees working from home can access company resources as if they were on-site.

2. Remote Access Software

Purpose: Tools like TeamViewer, AnyDesk, or Remote Desktop Protocol (RDP) allow users to access and control another device remotely.

How it Works: These applications provide graphical access to another machine, enabling file sharing, troubleshooting, or remote management.

Use Case: IT support staff can remotely fix issues without needing to be physically present.

3. Cloud-Based Networking

Purpose: Cloud services like AWS, Microsoft Azure, or Google Cloud provide virtualized networking and compute resources.

How it Works: Cloud networks allow businesses to scale their infrastructure without needing to maintain physical hardware.

Use Case: Hosting websites, managing virtual machines, and creating remote-accessible services.

4. SD-WAN (Software-Defined Wide Area Network)

Purpose: SD-WAN is a modern approach to networking that allows companies to optimize and manage remote network traffic over a wide area.

How it Works: It uses software to control the routing of traffic between multiple remote locations, offering better flexibility, security, and performance than traditional WANs.

Use Case: Companies with multiple branch offices can ensure efficient connectivity between remote sites.



5. Remote Network Monitoring and Management

Purpose: Tools like SolarWinds and Paessler PRTG help businesses monitor the performance of remote networks.

How it Works: These tools collect data on network traffic, bandwidth, device health, and other metrics to ensure the network operates optimally.

Use Case: IT departments can identify issues early and ensure the network's health across remote sites.

6. IoT (Internet of Things) Networking

Purpose: IoT devices often rely on remote networking for connectivity to a central server or cloud.

How it Works: IoT devices send and receive data over the internet, enabling remote control and monitoring.

Use Case: Smart home devices (like security cameras or smart thermostats) rely on remote networking.

The Gig Economy: How Students Are Earning While Learning

The gig economy has become a transformative force for college students seeking to earn money while pursuing their studies. With the rise of digital platforms such as Uber, Lyft, TaskRabbit, Fiverr, and Upwork, students now have the flexibility to choose part-time, freelance, and remote work opportunities that align with their academic schedules. This flexibility is crucial for students, as it allows them to prioritize their education while still earning an income. Whether it's offering services such as food delivery, freelance writing, web design, tutoring, or even virtual assistance, the gig economy provides an abundance of options for students to leverage their skills, interests, and spare time to generate income.

The primary appeal of gig work is the freedom and autonomy it offers. Students no longer need to commit to rigid part-time jobs that require fixed hours; instead, they can choose gigs that fit into their busy class schedules. For example, a student may drive for a ride-sharing service in the evening or provide freelance writing services during weekends, maximizing their time and balancing academic commitments. This level of flexibility is a game-changer for many students who need to earn money but do not want to sacrifice study time or extracurricular activities.

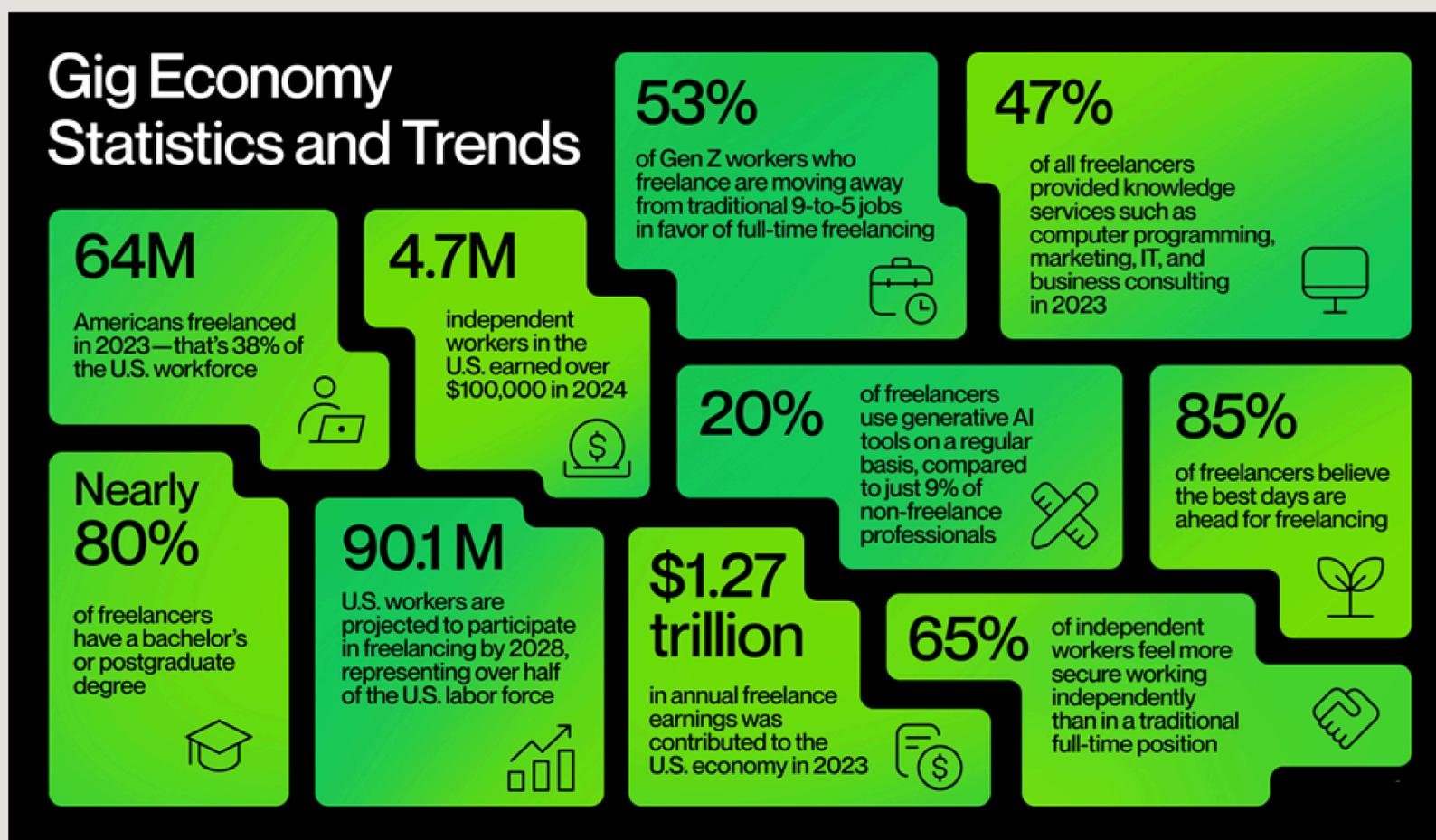
Moreover, the gig economy allows students to monetize their unique skills and talents, giving them the opportunity to turn their hobbies into income streams. Students with expertise in fields like graphic design, digital marketing, video editing, or photography can offer their services to a global client base through freelancing platforms. These gigs are often remote, which provides students with the added benefit of working from the comfort of their dorm rooms or apartments, further enhancing convenience. This ability to earn money while continuing their education gives students a sense of financial independence that is invaluable in managing the costs associated with college life.

Beyond financial compensation, gig work offers students a valuable chance to gain real-world experience and build their resumes. By working in freelance roles or starting small businesses, students are developing crucial skills such as time management, problem-solving, client communication, and project management. These experiences not only contribute to their personal growth but also make them more competitive in the job market after graduation. The gig economy can serve as a stepping stone for students looking to build professional portfolios and networks, which could lead to full-time employment opportunities in the future.

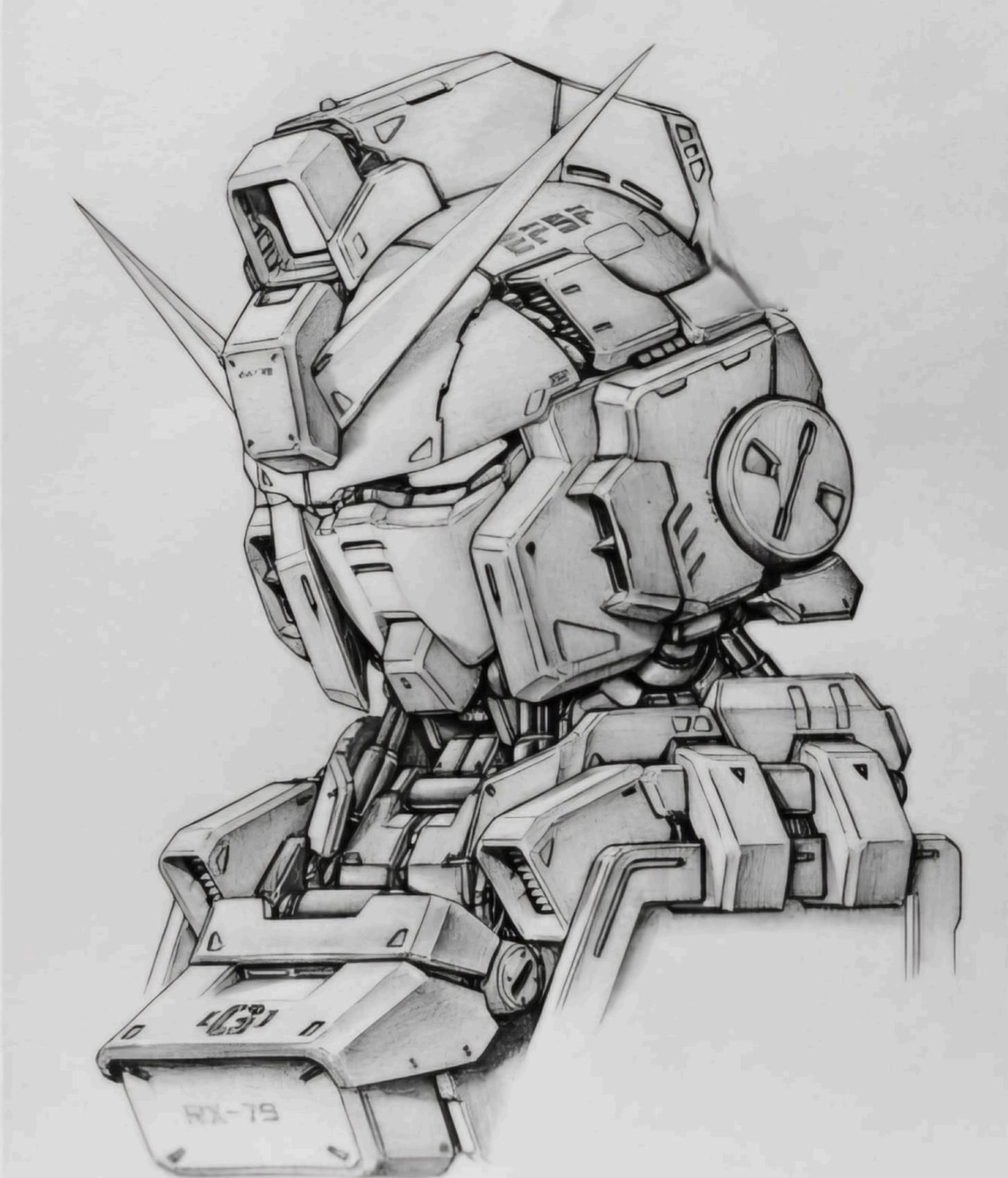
Another significant advantage of the gig economy is the entrepreneurial mindset it fosters. Many students who engage in gig work are learning the basics of entrepreneurship, such as marketing themselves, negotiating contracts, and handling taxes and finances. These experiences are especially valuable for students interested in starting their own businesses in the future. Through gig work, they learn firsthand how to operate independently and navigate the complexities of the modern job market, preparing them for a variety of career paths.

However, managing gig work alongside academics can be challenging. Students must strike a balance between work, study, and personal life. Time management and discipline are key to succeeding in both areas. While gig work provides flexibility, it also requires self-motivation and the ability to prioritize tasks effectively. Fortunately, many students learn to hone these skills through the experience of juggling multiple responsibilities.

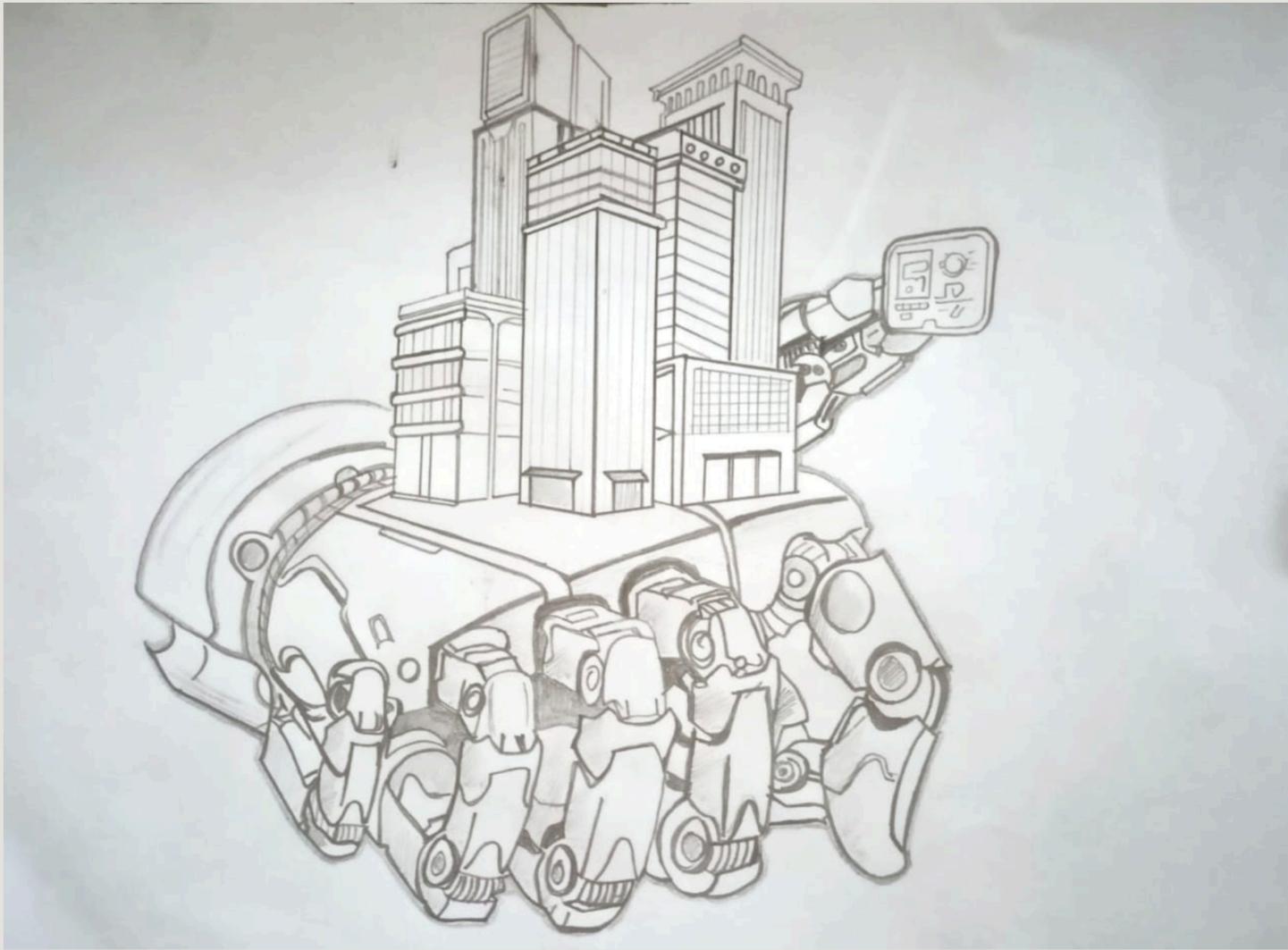
In conclusion, the gig economy has opened up new opportunities for college students to earn income, gain experience, and build skills while completing their degrees. By offering flexibility, real-world experience, and the chance to pursue passions outside of the classroom, the gig economy is changing the way students approach work and career development. As remote work and freelance opportunities continue to grow, it is clear that the gig economy will remain a significant part of the student experience, enabling a new generation of workers to thrive in an ever-evolving labour market.



STUDENT ARTS



T.V.Ramababu
21NG1A05B5
CSE-B



D.Sudheer
21NG1A0504
CSE-A



Y.Vijay
21NG1A05C5
CSE-B

Together Against COVID: Vaccinating Our Campus Family

The NSS Unit of our college successfully organized an in-campus COVID-19 vaccination drive to ensure the safety and well-being of students, faculty, and staff. By arranging the drive within the college premises, the NSS team made it more convenient and accessible for everyone to get vaccinated without the need to travel. This initiative was carried out in coordination with local health authorities, ensuring all guidelines and safety protocols were strictly followed. The effort demonstrated our institution's proactive approach to health and safety during the pandemic



Hands That Help



Hearts That Care



The in-campus vaccination program saw the active participation of NSS volunteers who managed everything from registration desks and queue management to guiding individuals throughout the process. The volunteers also helped in spreading awareness about vaccine safety and encouraged hesitant individuals to take part. Their dedicated efforts helped create a safe and organized environment within the college, making the drive a smooth and impactful experience for all involved.

STAFF SPORTS



Uniting Staff Through Sports and Recreation



STUDENT SPORTS



Sports form an integral part of student life, fostering physical fitness, mental alertness, and team spirit. At our college, students are encouraged to actively participate in a wide range of sports such as cricket, kabaddi, volleyball, badminton, athletics, and indoor games. Regular training sessions, sports meets, and intercollegiate tournaments provide students with opportunities to showcase their talent and passion. Many of our students have brought laurels to the institution by excelling at district, state, and university-level competitions. The college offers excellent sports infrastructure and dedicated coaching support to nurture young athletes. More than just games, sports at our campus build character, leadership, and lifelong discipline among students—preparing them not just for competition, but for life.

T&P

Our college is committed to providing exceptional training and placement opportunities to ensure students are well-prepared for successful careers. The Training and Placement Cell conducts regular workshops, technical training sessions, and soft skills development programs to enhance students' employability. Industry experts and alumni frequently interact with students through seminars and mentorship programs, bridging the gap between academia and industry requirements. We have strong collaborations with leading companies, ensuring ample internship and job opportunities across various domains. Our dedicated placement team works tirelessly to facilitate campus recruitment drives, mock interviews, and resume-building sessions, helping students secure positions in top organizations.

I8NGIA0501	Allu Jahnavi
I8NGIA0507	Chakka Rupadevi
I8NGIA0506	Charishma devi Burle
I8NGIA0540	Charishma Sai Sri Putti
I8NGIA0512	Chinmai Moulya Dandamudi
I8NGIA0522	Inturi Likhitha
I7NGIA0529	Kukkamalla Mahima
I8NGIA0532	Nannapaneni Sai Chandana
I8NGIA0505	Rahul Sai Bantumalli
I8NGIA0548	Sahithi Talupula

UNKNOWN MASTER MINDS

SOPHIE WILSON



Sophie Wilson is a British computer scientist and engineer known for designing the Acorn RISC Machine (ARM) architecture, which powers billions of devices today, including smartphones, tablets, and embedded systems. Born in 1957, she studied at the University of Cambridge and played a key role in developing the BBC Microcomputer, a major influence in early personal computing. In the 1980s, she co-designed the first RISC (Reduced Instruction Set Computing) processor, which led to the development of ARM, now a dominant force in mobile computing due to its power efficiency. Her innovations transformed the technology industry, enabling energy-efficient processors for consumer electronics. Wilson has received numerous accolades for her contributions, including induction into the Royal Society and the Computer History Museum. Despite her profound impact on computing, she remains relatively unsung compared to other industry giants. Today, ARM processors are found in nearly every smartphone and IoT device, proving the lasting significance of her work. Wilson continues to advocate for innovation in computing and engineering.

Brewster Kahle is an American computer engineer, digital librarian, and entrepreneur best known for founding the Internet Archive, a nonprofit organization dedicated to preserving digital content and ensuring free access to knowledge. Born in 1960, he studied artificial intelligence at MIT and later co-founded WAIS Inc., an early internet search company acquired by AOL. In 1996, recognizing the need to preserve the rapidly evolving web, he launched the Wayback Machine, which archives websites for future reference. His work extends beyond web archiving, as the Internet Archive also digitizes books, audio, and video, promoting universal access to information. Kahle has been a strong advocate for open libraries, digital preservation, and copyright reform, challenging restrictions on digital content. He also co-founded Alexa Internet, a web analytics company later acquired by Amazon. His contributions have earned him multiple awards, solidifying his status as a pioneer in digital archiving. Through his efforts, he continues to shape how information is stored and accessed in the digital age.



BREWSTER KHALE

»» TECH TICKLES

Why don't programmers like nature?

-Too many bugs.

How does a computer get drunk?

-It takes screenshots.

What's a computer's favorite type of drink?

- Java.

What's a computer's favorite snack?

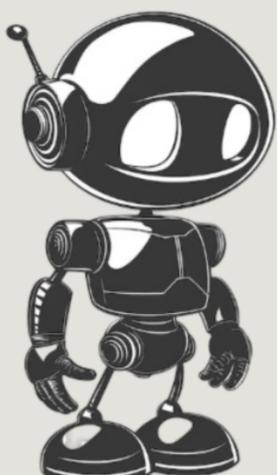
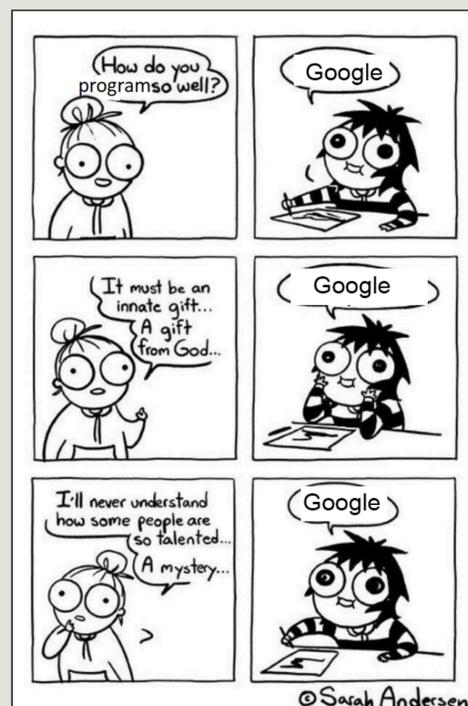
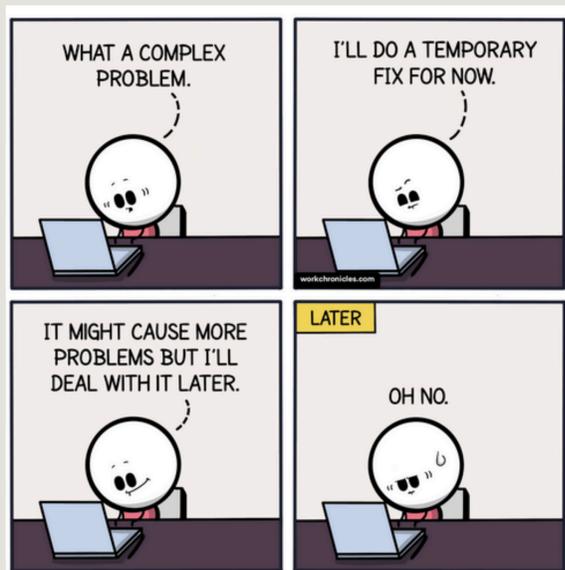
- Microchips!

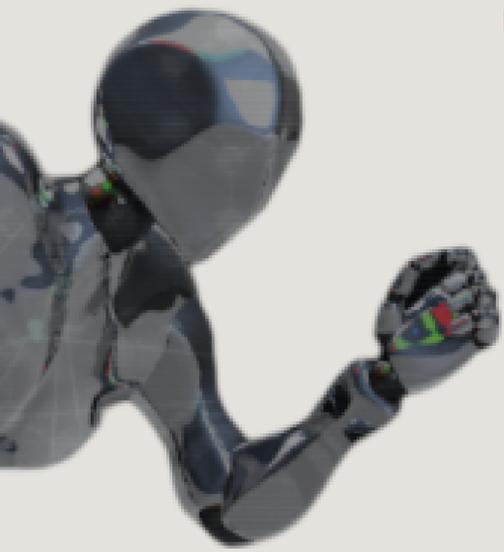
What's a computer's favorite dance move?

-The disk-o!

What do you call a computer superhero?

- A screensaver.





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