NARAYANA
ENGINEERING COLLEGE::GUDUR

Dhurjati Nagar, Gudur, Tirupati Dist., AP - 524101
An Autonomous College under JNTUA, Approved by AICTE, New Delhi

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER 2024-25 SEMESTER-II
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Vision of the institute

To be one among the premier institutions of the country for professional education in producing technocrats with competent skills, Innovative ideas and Ethics to serve the nation.

Mission of the institute

To provide an environment most conducive to learning with state-of-the-Art infrastructure, well equipped laboratories and research facilities to impart high quality technical education.

To emphasize on innovative ideas and creative thinking and prepare them to meet the growing challenges of the industry.

To inculcate the leadership qualities, multi-disciplinary approach, Ethics and lifelong learning in graduates to serve the diverse societal needs of our nation.

Vision of the Department

To produce globally competent software professionals in the field of Computer Science and Engineering to meet the needs of industry and society along with research and consultancy, lifelong learning, leadership qualities and ethics.

Mission of the Department

To deliver quality technical education by practicing innovative teaching learning processes making student's self-sufficient individuals.

To inculcate innovative thinking and problem solving skills in learners through training programs and collaborative interaction with industry.

To develop professional behavior with strong ethical values, leadership qualities and lifelong learning by providing value based education.

PEOS

PEO-1 : To Attain higher positions in career by exhibiting expertise in solving real world problems.

PEO-2 : To Fill technical gaps and take leadership roles and achieve substantive results for the development of the organization.

PEO-3 : To Adapt to rapidly changing technologies through Lifelong learning.

(PROGRAM SPECIFIC OUTCOMES) PSOs

PSO 1: Software Product Development: Apply the principles and practices of software Engineering for developing quality software applications.

PSO 2: Employment: Get employed in industries through their knowledge attained in Basic and advanced programming languages, specialized software packages or become an entrepreneur.

(PROGRAM OUTCOMES) POs

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods 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 team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multi disciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi disciplinary 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.

Guest talk on AI Solution For Real World Applications

Guest lecture on "AI Solution For Real World Applications " was organized by the department of CSM(AI&ML), on 22 March 2025. The Resource person Dr.P.Rajarajeswari, B.Tech, M.Tech,PhD,Associate Professor dept of software systems school of computer science and Engineering vellore institute of Technology vellore,Tamilnadu. explained various concepts of AI Solution For Real World Applications related aspects right from the fundamentals for II year II Semester B.Tech CSM students.

The session was started at 10:00 am by welcoming of Resourse Person Dr.P.Rajarajeswari, B.Tech,M.Tech,PhD,Associate Professor dept of software systems school of computer science and Engineering vellore institute of Technology vellore,Tamilnadu. Principal, Dr. V.Ravi Prasad, The head of the Department of CSE Dr.P.Venkateswara Rao & faculty members of CSE also took part in the Guest lecture actively

Dr.P.Rajarajeswari, B.Tech,M.Tech,PhD,Associate Professor dept of software systems school of computer science and Engineering vellore institute of Technology vellore,Tamilnadu, was the Speaker for the Guest Lecture program. Total 67 students from CSE branch attend for this program. Guest lecture of the event has started by initiating the Resource person to the students later the session is carried out by discussing the principles.

Guest Lecture on Design Thinking For Innovation

Guest lecture on "Design Thinking For Innovation "was organized by the department of CSE, on 10 February 2025. The Resource person Sk.Shameen Taz,Assistant Professor Annamacharya college,Tirupathi. explained various concepts of Design Thinking related aspects right from the fundamentals for II year II Semester B.Tech CSE students.

The session was started at 10:00 am by welcoming of Resourse Person Sk.Shameen Taz,Assistant Professor Annamacharya college,Tirupathi. Principal, Dr. V.Ravi Prasad, The head of the Department of CSE Dr.P.Venkateswara Rao & faculty members of CSE also took part in the Guest lecture actively.

Sk.Shameen Taz,Assistant Professor Annamacharya college,Tirupathi, was the Speaker for the Guest Lecture program. Total 131 students from CSE branch attend for this program. Guest lecture of the event has started by initiating the Resource person to the students later the session is carried out by discussing the principles.

Design thinking is a method to increase a company's value and bring relief to users. It emphasizes user experience over the market, design over engineering and customer over product. In other words, it values the customer more than the business, eventually leading to business growth and expansion. Design thinking, innovation and UI UX design certification is not for the known problems or solutions but for non-existent and unique things that the world needs.

An entrepreneur should understand the problem through the user's perspective with empathy. Gather the information and define the problem. Work on design thinking for innovation and bring a solution. Develop a prototype for feedback. Test the prototype to understand the potential and limitations for further modifications.

Guest Lecture on Web Technologies

Guest lecture on "Web Technologies" was organized by the department of CSE, on 27 February 2025. The Resource person A.Suresh babu Director - Software Development centre JNTUA. explained various concepts of web technologies related aspects right from the fundamentals for III year II Semester B.Tech CSE students.

The session was started at 10:00 am by welcoming of Resourse Person A.Suresh babu Director - Software Development centre JNTUA. Principal, Dr. V.Ravi Prasad, The head of the Department of CSE Dr.P.Venkateswara Rao & faculty members of CSE also took part in the Guest lecture actively.

A.Suresh babu Director - Software Development centre JNTUA, was the Speaker for the Guest Lecture program. Total 137 students from CSE branch attend for this program. Guest lecture of the event has started by initiating the Resource person to the students later the session is carried out by discussing the principles.

he guest speaker for the event was [A.Suresh babu Director - Software Development centre], from [JNTUA], who has extensive experience in the field of web development and digital solutions. The session began with a warm welcome by [Name], followed by a brief introduction of the guest speaker.

During the lecture, the speaker provided valuable insights into various aspects of web technologies, including:

- HTML5, CSS3, and JavaScript as the building blocks of modern web development
- Introduction to Front-end frameworks such as React and Angular
- Overview of Back-end technologies like Node.js, Express, and databases (SQL/NoSQL)
- Discussion on Web Hosting, APIs, and Web Security Practices
- Latest trends such as Progressive Web Apps (PWA), Responsive Design, and Web 3.0

The session was highly interactive, with students actively participating in the Q&A segment. The speaker also demonstrated a few real-world projects and provided career guidance for students aspiring to enter the field of web development.

The event concluded with a vote of thanks by [A.Suresh babu], expressing gratitude to the guest speaker for sharing valuable knowledge and inspiring the students.Overall, the lecture was informative and well received, providing students with a better understanding of current web technologies and industry expectations.

SEMINAR ON EXPLORING COMPUTERIZED GENERATED IMAGERY

The Department of Computer Science & Engineering, in association with the Computer Society of India, successfully organized a seminar on Exploring Computer-Generated Imageryfor II B.Tech II Sem CSE students on 13th March 2025 at the Seminar Hall. The seminar was conducted under the convenor of Dr. P. Venkateswara Rao, HOD, Dept. of CSE. The session provided students with valuable insights into the advancements, applications, and future scope of computer-generated imagery (CGI) in various industries. Experts explained how CGI is widely used in entertainment, gaming, virtual reality, and other fields, making it an essential skill for aspiring engineers. Students actively participated and engaged in discussions, enhancing their understanding of the subject. The seminar proved to be an enriching experience, equipping students with knowledge about modern technologies shaping the industry.

PARENT- TEACHERS MEETING

A Parent-Teachers Meeting was conducted to II and III B.Tech II Semester CSE students on 15-02-2025 from 09:30 AM – 12:00 PM at CSE Seminar Hall.

The meeting is organized under the guidance of Principal and Head of the Department. Mentors given information about Parent-Teachers Meeting to parents through Phone calls.

Parent-Teacher Meeting was started with welcome Address and Introductory speech by the Head of the Department Dr. P. Venkateswara Rao. Then all mentors were introduced to parents. The academic progress and attendance of respective students were discussed with the parents in the presence of the mentors and subject teachers.
The following points are discussed with the Parents in the meeting:

- Interaction between Parents, Class Teachers, Subject Teachers and Mentors was done.
- There was a discussion on student's performance in individual subjects, students discipline in classrooms.
- Students' previous semester marks.
- Students' current semester I Mid Examination marks.
- Students' attendance.

Parents given a good feedback about the Programme and Meeting was concluded with a vote of thanks.

3D ANIMATION

The Department of Computer Science & Engineering conducted a Workshop 3D Animation on 25-09-2024. The main objective of 3D Animation is the process of creating moving images in a three-dimensional digital environment. Unlike 2D animation, which works within two dimensions (height and width), 3D animation adds depth, creating more life like and realistic visuals. It is used across various industries, including entertainment, video games, advertising, medical visualizations, architecture, and education. This report explores the core aspects of 3D animation, including its history, techniques, software tools, applications, and the future of the industry.

The Workshop was attended by good number of Participants and the Resource Person Mr. P. Muthyalu, Asst. Professor had addressed the gathering and delivered the details of fundamentals and future of 3D Animation in current scenarios.

CYBER SECURITY AWARENESS

The Department of Computer Science & Engineering conducted a Professional Development Programme on Cyber Security Awareness on 09-12-2024. The main objective of cyber security awareness is to empower individuals with the knowledge and tools they need to protect themselves and their organizations from cyber risks.

The Workshop was attended by good number of Participants and the Resource Person Dr. P. Venkateswara Rao, Professor & HOD had addressed the gathering and delivered the awareness on Cyber Attacks

Key components of cyber security awareness:
- Understanding Cyber Threats
- Strong Password Practices
- Multi-Factor Authentication (MFA)
- Recognizing Phishing and Social Engineering
- Safe Browsing Practices
- Updating Software and Systems
- Data Backup and Recovery
- Secure Wi-Fi Networks
- Employee Training (For Organizations)
- Incident Reporting.

Industrial Visit to Adani Krishnapatnam Port

The Department of Computer Science and Engineering of Narayana College of Engineering, Nellore has organized an Industrial visit to Adani Krishnapatnam Port , Nellore on 05th feb 2025. Industrial visit has its own importance in the career of a student who is pursuing a professional degree. It is considered a part of the college curriculum and the objective of an industrial visit is to provide students an insight into the internal working of companies.

The primary objective of the industrial visit was to familiarize students with the day-to-day operations, business processes, and industry standards of Adani Krishnapatnam Port. The visit aimed to bridge the gap between theoretical knowledge acquired in the classroom and its real-world application in an organizational setting. Adani Krishnapatnam Port has been recognized for its unwavering dedication to quality, innovation, and ethical business practices.

With a focus on cutting-edge technology and a customer-centric approach, Adani Krishnapatnam Port has successfully positioned itself as a leader in the market. The company's dedication to staying abreast of industry trends and delivering superior products/services has contributed significantly to its success and positive standing in the business community.

The industrial visit to Adani Krishnapatnam Port , Nellore. to be an enriching experience for all participating students. It effectively bridged the gap between theoretical knowledge and practical application, providing a deeper understanding of industry operations.

Students learnt about the industry environment and its production process flow in the IT industries also got great experience and wonderful interaction with their employees.

Professional Society Activity

Poster Presentation Competition Women Warriors of Freedom Fighters

The Department of Computer Science and Engineering, in association with the Women's Forum, organized a Poster Presentation Competition titled "Women Warriors of Freedom Fighters" on 6th March 2025 at the CSE Seminar Hall to commemorate Women's Day. The event aimed to honor and celebrate the contributions of courageous women who played a pivotal role in India's freedom struggle while encouraging students to express their creativity through posters.

The competition saw enthusiastic participation from II B.Tech and III B.Tech CSE girl students, who presented visually appealing and informative posters showcasing the achievements and sacrifices of notable women freedom fighters. The event commenced with an inaugural speech by Dr. [Name], Head of the Department, who emphasized the significance of recognizing the contributions of women in history. Participants displayed their creativity by highlighting the contributions of freedom fighters such as Rani Lakshmibai, Sarojini Naidu, Annie Besant, Aruna Asaf Ali, Kittur Rani Chennamma, and many more. Each presentation included an explanation of the historical significance and impact of the chosen personalities.

A panel of esteemed judges evaluated the posters based on creativity, historical accuracy, presentation skills, and overall impact. The winners of the competition were announced as follows: First Prize – S.PAVANI, Second Prize – A. Veda varshitha, and Third Prize – K.Sireesha. The winners were awarded certificates and prizes as a token of appreciation for their efforts and dedication.

The Power of Women: Building Confidence & Success

The Department of Computer Science and Engineering, in collaboration with the Women's Forum, successfully conducted an awareness session on The Power of Women: Building Confidence & Success on 24/03/2025 at the CSE Seminar Hall. The event aimed to inspire and empower women by promoting self-confidence, leadership skills, and personal development.
- The event commenced with a welcome address by Dr.Rajarajeswari M.tech, PhD highlighting the importance of women's empowerment in today's world.
- Key note speeches were delivered by esteemed speakers, including Dr.Rajarajeswari, who shared their experiences and insights on building confidence and achieving success.
- An interactive discussion session allowed students to engage with experts and seek guidance on overcoming challenges in their personal and professional lives.
- A motivational activity was conducted to encourage self-expression and confidence-building among participants.
- The event concluded with a vote of thanks by Dr.Rajarajeswari, appreciating the efforts of organizers, speakers, and participants.

TechnoGyan 2K25

The Department of Computer Science and Engineering at Narayana Engineering College successfully organized TECHNOGYAN 2K25 on 21st January 2025. The event was graced by two eminent Chief Guests: Mr. Syam Krishna, Consultant in the Oracle HCM Cloud domain, and Mr. Vinodh Kumar Singh, Vice President in the Enterprise Solutions Architecture team at DBS Bank, Singapore. Both dignitaries delivered insightful speeches, emphasizing the importance of emerging technologies and the role of young engineers in shaping the future.

The event commenced with a warm welcome address by Dr. B. Dattatreya Sarma, College Director, followed by inspiring speeches from Dr. V. Ravi Prasad, Principal, Dr. J. V. S. Bhaskar, Vice Principal, Dr. K. Vishwak Sena Reddy, Dean of Academic and Planning, and Dr. P. Venkateswara Rao, Head of the CSE Department. Their words motivated the participants to embrace innovation and teamwork.

TechnoGyan 2K25 featured a mix of technical and non-technical events, which included:
- Technical Events: Robotics Exhibition, AI Prompt Challenge, Techno Quiz, Code Hunt, Paper and Poster Presentation.
- Non-Technical Events: Reels Making, Fun Quiz, Poster Replica, and Spot Events.

The event concluded with an award distribution ceremony in the auditorium, where certificates and prizes were presented to the winners. The enthusiastic participation of students from various colleges from different states and the engaging activities ensured the event's success. Feedback was collected from participants, highlighting their appreciation for the event's organization, diverse activities, and the opportunity to learn and network.

The Department of CSE expresses heartfelt gratitude to all the dignitaries, faculty, staff, and students for their invaluable contributions to making TechnoGyan 2K25 a grand success.