

TECHNOPEDIA

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Department of Computer Science & Engineering
Echelon Institute of Technology, Faridabad

ECHELON INSTITUTE OF TECHNOLOGY,
FARIDABAD



VISION AND MISSION OF THE INSTITUTE

VISION

The institute is committed to fulfilling its vision of- "Technical and Management leaders engaged in the evolution of life, being at the frontiers of the continuous technological and administrative breakthroughs, inspired by ongoing exploration of self, society, and nature through self-reflective consciousness by building a culture of inspiration, exploration and growth."

MISSION

Having a culture of inspiration, exploration, and invention through effective, experiential teaching-learning giving rise to ever-evolving knowledge and wisdom.

To have self-inspired students ever engaged in continually working upon and sharpening and deepening computational, creative, innovative, and leadership consciousness.

Having students established in self-reflective consciousness, committed to personal, social & human integrity, and engaged in deep inquiry and conversation, giving rise to shared, inter-subjective human values and consciousness.

VISION STATEMENT OF THE DEPARTMENT

To develop competent computer professionals who solve real-world problems through continuous learning and adaptability to rapid changes in computer science and engineering with ethical, social, and managerial capabilities.

MISSION

M1: - To produce industry-ready professionals for successful careers in computer science and related domains.

M2: - To provide exposure to cutting-edge computational tools in the field of computer science and engineering.

M3: - To create competent and ethical computer professionals through quality education, innovative research, and exposure to entrepreneurship.

Student Speaks

From the moment I set foot on Echelon's campus, I knew I was in a place that nurtured ambition and excellence. The state-of-the-art infrastructure, with its modern classrooms and smart technology, created an environment where learning felt dynamic and engaging. The library, a haven of wisdom, offered not just books but a quiet space for exploration and discovery.

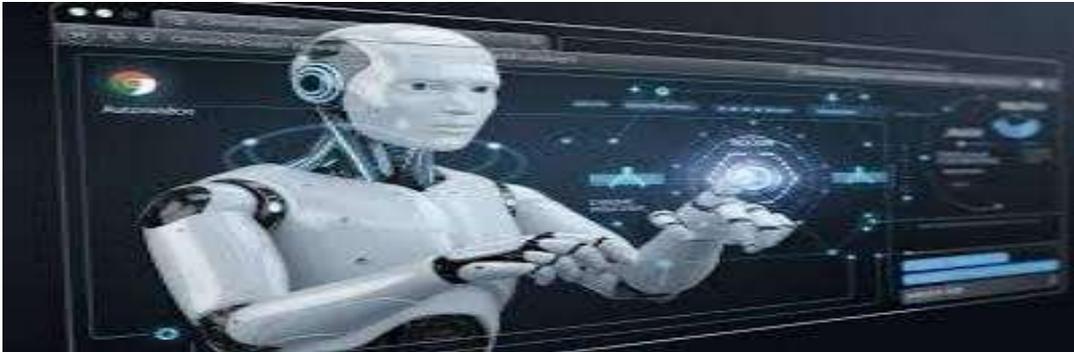
Beyond academics, what truly set Echelon apart was its vibrant community. Professors were more than teachers—they were mentors who invested in our growth. The campus buzzed with opportunities, from insightful seminars to thrilling competitions and diverse student clubs, each experience adding to a journey of self-discovery and lifelong friendships.

Echelon was more than just my college—it was the foundation of my future. A place where learning, growth, and memories intertwined, leaving an impact that will stay with me forever.

— Himanshu Pal (22-CSE-046)

Latest Trends in Computer Science

AI-Driven Browser Automation



In October 2024, Alphabet's Google announced the development of an AI technology, code-named Project Jarvis, designed to autonomously perform tasks within web browsers, such as research and shopping. This initiative aims to enhance user experience by streamlining online activities. The project is expected to be showcased in December 2024 alongside the release of Google's next flagship large language model, Gemini.

Quantum Computing Milestone



In December 2024, Google unveiled a groundbreaking quantum computer chip named Willow. This chip significantly reduces errors and outperforms existing benchmarks in quantum computing. Notably, it completed benchmark computations in under five minutes a task that would take the fastest supercomputers approximately 10 septillion years. This advancement addresses longstanding challenges in quantum computing and is seen as a crucial step toward practical applications in areas like drug discovery and battery design.

Highlights:

Introduction To Cyber Security And Cyber Essentials

Industrial Visit At Code Squadz

Presentation Competition Win at Manav Rachna University

National Innovation Day on 15th October

Brainstorm

Science Exhibition

Workshop On Intellectual Property Rights Patent And Filing Strategy

Workshop On Placement Readiness For CSE Students

Seminar On How To Crack Top Jobs In Tech Field

Campus Placement Drive For Hike Educational

Seminar On Data Analysis With Advanced Excel

Diwali Dazzle Celebration

Motivational Session by Successful innovator with 54 years of experience at NASA

Entrepreneurship and innovation workshop for students:

Echiesta an annual-techno-cultural-sports festival

Thanksgiving Event

Industrial visit at HCL Noida

Problem Solving and Ideathon Workshop

Pre-Placement Talk and Internship Drive at Echelon Institute of Technology

Message from the Editor

Innovation's heartbeat is in Technopedia's latest pulse. This season, we delve into the fertile fields of creativity, where imagination breeds like rabbits and spawns groundbreaking advancements. We'll equip you with the knowledge and inspiration to navigate the frontiers of technology, ensuring you stay ahead of the curve.

Activities in the Department

[Intro To Cyber Security & Cyber Essentials](#)

In today's digital age, cybersecurity has become an essential part of protecting personal, academic, and organizational data from a wide range of cyber threats. At **Echelon Institute of Technology**, cybersecurity is critical not only to protect sensitive information but also to maintain a safe and secure digital environment for students, faculty, and staff.

Cybersecurity involves practices, technologies, and processes designed to safeguard networks, computers, and data from unauthorized access, attacks, and damage. With the rise of cybercrimes such as phishing, malware, and data breaches, it's crucial for everyone to understand the importance of digital security. Basic measures like using strong passwords, regularly updating software, and being cautious of suspicious emails can go a long way in protecting sensitive information from cybercriminals.

One effective approach to enhancing cybersecurity is the Cyber Essentials framework, a set of basic security practices designed to help organizations protect against the most common cyber threats. The Cyber Essentials scheme covers five key areas: firewalls, secure configurations, user access control, malware protection, and security updates. These simple yet essential practices can dramatically reduce the risk of cyberattacks, making it easier to



maintain secure networks and systems.

For students and faculty at **Echelon Institute of Technology**, adopting basic cybersecurity practices—such as enabling two factor authentication and regularly backing up data—can help safeguard personal and institutional information from potential breaches. By prioritizing cybersecurity, we ensure a safer and more reliable online environment for the entire Echelon community.

Workshop On Intellectual Property Rights and Patents

Echelon Institute of Technology organized an insightful **workshop on Intellectual Property Rights (IPR), Patents, and Filing Strategy**, aimed at educating students and faculty about the importance of protecting their innovative ideas. The workshop, brought together experts in the field of intellectual property law and patent filing to provide a comprehensive understanding of how IPR functions and the process of securing patents.

Participants gained valuable knowledge on various forms of intellectual property, including patents, trademarks, copyrights, and trade secrets, and how these legal tools can protect innovations in today's competitive environment.

The workshop covered essential topics such as the steps involved in patent filing, the significance of patents for inventors and entrepreneurs, and the strategies for effectively managing intellectual property. Attendees learned about the criteria for patentability, the different types of patents, and how to navigate the complex patent filing process, both domestically and internationally. Additionally, the experts shared best practices for drafting patent applications, ensuring that inventors can safeguard their inventions and ideas. The workshop proved to be an eye-opening experience for all, helping participants understand the critical role of IPR in fostering innovation, protecting creations, and supporting future research and development endeavors.



Workshop On Placement Readiness

Echelon Institute of Technology recently hosted an informative **Workshop on Placement Readiness** tailored specifically for Computer Science and Engineering (CSE) students. The workshop, aimed to equip students with the necessary skills and knowledge to excel in the competitive placement process. Industry experts, along with experienced placement officers, shared valuable insights on the current trends in the tech industry, the key skills required by top companies, and the best practices for acing placement interviews and aptitude tests.

The session covered a wide range of topics, including resume building, enhancing technical and soft skills, and mastering the art of interviews. Students were guided through the process of identifying their strengths, preparing for coding challenges, and effectively communicating their knowledge to potential employers.



Seminar On How To Crack Top Jobs In Tech Field:

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The session covered a wide range of topics, including resume building, enhancing technical and soft skills, and mastering the art of interviews. Students were guided through the process of identifying their strengths, preparing for coding challenges, and effectively communicating their knowledge to potential employers. The workshop also featured mock interviews, group discussions, and personality development sessions to help students build confidence and improve their communication skills. With guidance on how to stay updated with industry advancements and enhance employability, the workshop was a crucial step in ensuring that **Echelon Institute of Technology's** CSE students are fully prepared to step into the professional world with the skills and confidence needed to succeed in their placements.



Seminar on Data analysis with Advanced Excel

Echelon Institute of Technology hosted a successful **Campus Placement Drive for Hike Educational**, offering students an excellent opportunity to secure roles with one of the leading educational technology companies. The placement drive, attracted a large number of students from various departments who were eager to explore career opportunities in the growing field of ed-tech. Hike Educational, known for its innovative learning platforms, was looking for talented individuals to join their dynamic team and contribute to shaping the future of education.

During the drive, students participated in a series of assessments, including technical interviews, aptitude tests, and personal interviews, tailored to evaluate both their technical skills and soft skills. The recruitment team from Hike Educational provided valuable insights into the company's culture, job roles, and the exciting career prospects within the ed-tech sector.

Students were also briefed on the company's mission to create accessible and engaging educational experiences for learners globally. The placement drive was a tremendous success, with several students receiving job offers, marking a significant step towards launching their professional careers in the rapidly expanding ed-tech industry.



Problem Solving and Ideathon Workshop

Echelon Institute of Technology recently hosted a dynamic **Problem Solving and Ideathon Workshop**, aimed at sharpening students' critical thinking, creativity, and innovation skills. The workshop brought together students from diverse disciplines to collaborate, brainstorm, and develop innovative solutions to real-world challenges. Participants were introduced to various problem-solving methodologies, including design thinking, brainstorming techniques, and rapid prototyping, which helped them approach complex issues in a structured yet creative way. The workshop's highlight was the **Ideathon**, where teams competed to come up with

groundbreaking ideas to address pressing global issues such as sustainability, technology in education, and healthcare innovation. With guidance from industry experts and faculty members, students were encouraged to think outside the box and present feasible, impactful solutions. The event fostered a spirit of collaboration, creativity, and healthy competition, as participants pitched their ideas to a panel of judges, including professionals from tech and business industries. This hands-on experience not only enhanced students' problem-solving abilities but also inspired them to pursue entrepreneurial endeavors and continue innovating in their academic and professional journeys.



Pre-Placement Talk and Internship Drive

Echelon Institute of Technology recently organized a highly informative **Pre-Placement Talk and Internship Drive**, providing students with valuable insights and opportunities to kickstart their careers. The event aimed at preparing students for the competitive job market by offering guidance on resume building, interview techniques, and essential skills that employers look for in potential candidates. Industry experts and company representatives shared their experiences, emphasizing the importance of soft skills, technical expertise, and the need to stay updated with the latest industry trends.

The internship drive, a key component of the event, allowed students to directly connect with



top companies seeking talented interns. Various industry leaders from fields like IT, engineering, management, and finance were present, offering internships that provided hands-on experience in real-world scenarios. Students were encouraged to participate in one-on-one discussions with company representatives, submit their resumes, and apply for internships that aligned with their career interests. The session not only prepared students for the recruitment process but also opened doors to exciting professional experiences, enabling them to gain practical exposure before entering the workforce.

Institute Level Activity

Industrial visit at HCL Noida

Echelon Institute of Technology recently organized an insightful **Industrial Visit to HCL** in Noida, offering students a unique opportunity to gain firsthand experience in the world of technology and innovation. The visit provided a deep dive into the operations of one of India's leading IT companies, where students learned about HCL's cutting-edge solutions and its contributions to the global tech industry. The students were given a guided tour of the facilities, where they observed the state-of-the-art technology in action and interacted with professionals who shared valuable industry insights.

During the visit, students had the chance to engage with HCL's experts, gaining knowledge about various areas of IT, such as software development, cybersecurity, cloud computing, and artificial intelligence. The representatives also discussed the company's approach to innovation and the importance of continuous learning and adaptation in the ever-evolving tech landscape. The visit was a perfect blend of theory and practice, as students saw how the concepts they are learning in their classrooms are applied in real-world scenarios. This exposure not only broadened their technical understanding but also motivated them to pursue careers in the rapidly advancing field of technology.

The HCL industrial visit also provided students with a platform to ask questions and gain deeper insights into the skills required to succeed in the IT industry. The professionals shared their experiences, highlighting the importance of problem-solving, creativity, and effective communication in the workplace. Students were also introduced to HCL's various projects and collaborations with global organizations, showcasing the impact of their work on a global scale.



This exposure to real-world applications of technology helped bridge the gap between academic learning and industry practices. The visit left the students inspired and better prepared for their future careers, equipped with practical knowledge and a broader perspective on the tech industry.

Industrial Visit at Code Squadz

On September 27, a group of students from **Echelon Institute of Technology** embarked on an enriching industrial visit to **Code Squadz** in Noida, a leading tech firm specializing in software development and IT solutions. The visit aimed to provide students with a hands-on experience of the real-world applications of the concepts they've been learning in their coursework. During the visit, students had the opportunity to interact with industry professionals, gain insights into the company's operations, and explore cutting-edge technologies used in software development. The experience was designed to bridge the gap between academic learning and industry practices, equipping students with valuable knowledge that will be useful in their future careers.

At Code Squadz, the students were given a detailed tour of the company's work environment, which fosters innovation and collaboration. They were introduced to the various development projects underway and had the chance to see how theoretical concepts such as coding, cloud computing, and AI are implemented in a professional setting. Industry experts shared their experiences and discussed the challenges and opportunities in the rapidly evolving tech landscape. The visit proved to be an inspiring and insightful experience, providing students with a broader perspective on the tech industry and preparing them for the next steps in their academic and professional journeys.



Presentation Competition Win at Manav Rachna University

A group of talented students from **Echelon Institute of Technology** recently participated in a highly competitive presentation event at **Manav Rachna University** and emerged victorious. The event, which brought together students from various institutes, was focused on showcasing innovative ideas and solutions across a variety of topics. Our students stood out with their well-researched content, engaging delivery, and creative use of visuals, impressing both the judges and the audience. The competition provided a platform for participants to demonstrate their public speaking skills, critical thinking, and ability to present complex information in a clear and impactful way.

Winning the competition was a proud moment for the team and for **Echelon Institute of Technology**, as it highlighted the dedication and hard work put in by our students. Their success is a testament to the high standards of education and mentorship at our institute. The victory not only boosted their confidence but also gave them valuable experience in presenting ideas in front of an academic audience. The team's achievement serves as an inspiration for all students, encouraging them to actively engage in extracurricular activities and hone skills that are crucial for their future professional careers.



National Innovation Day on 15th October

Echelon Institute of Technology celebrated National Innovation Day on 15th October, a day dedicated to fostering creativity, innovation, and technological advancement. The event aimed to inspire students to think critically and develop innovative solutions to address real-world problems. Throughout the day, a series of engaging activities, workshops, and competitions were organized to encourage students to explore new ideas and challenge conventional thinking. The celebration highlighted the importance of innovation in shaping the future, particularly in the fields of technology, engineering, and entrepreneurship.

Various sessions were conducted by industry experts and faculty members, focusing on the latest trends in innovation and the role of technology in driving societal change. Students participated in brainstorming sessions, product design challenges, and interactive workshops, allowing them to collaborate, experiment, and showcase their creativity. The event served as a reminder of the immense potential for innovation among young minds and provided a platform for activities to present their ideas. National Innovation Day at Echelon Institute of Technology was not only an opportunity to celebrate past achievements but also to motivate students to continue pursuing groundbreaking ideas that will shape the future.



Brainstorm: Inter-Student Innovation Drive

Echelon Institute of Technology kicked off October with an exciting initiative—**Brainstorm October**, a month-long event designed to unleash the creative potential of students. The goal was to encourage innovative thinking, problem-solving, and collaboration across various fields, from technology and engineering to entrepreneurship and design. Throughout the month, a variety of activities, including workshops, hackathons, and idea-generation sessions, were organized to help students refine their ideas and develop solutions to real-world challenges.

Brainstorm October fostered an environment where students could collaborate with their peers and faculty members to explore new ideas, experiment with cutting-edge technologies, and present their unique solutions to pressing issues. Guest speakers and industry experts were invited to share their experiences and provide insights into the current trends in innovation and technology. This initiative not only encouraged creative thinking but also empowered students to think outside the box, collaborate effectively, and pursue their entrepreneurial aspirations. By the end of the month, **Echelon Institute of Technology** had successfully nurtured a culture of innovation, preparing students for the challenges of the future.



Science Exhibition for Inter-Students

In October, **Echelon Institute of Technology** hosted an exciting **Science Exhibition**, showcasing the innovative ideas and scientific talents of its students. The exhibition provided a platform for students to present their projects and experiments, demonstrating the practical application of scientific principles in various fields such as physics, chemistry, engineering, and environmental science. The event was a great success, with students from various departments collaborating to create interactive models, prototypes, and displays that captured the essence of cutting-edge research and technological advancements.

The **Science Exhibition** featured a wide range of exhibits, including renewable energy solutions, robotics, AI-driven innovations, and environmental conservation projects. Faculty members, industry experts, and students visited the exhibition, providing valuable feedback and engaging in insightful discussions with the participants. The exhibition not only highlighted the importance of science and technology in everyday life but also encouraged students to think creatively and explore the endless possibilities of scientific discovery. It was an inspiring event that demonstrated the incredible potential of **Echelon Institute of Technology's** students to drive change through innovation and research.



Campus Placement Drive for Hike Educational:

Echelon Institute of Technology hosted a successful **Campus Placement Drive for Hike Educational**, offering students an excellent opportunity to secure roles with one of the leading educational technology companies. The placement drive, attracted a large number of students from various departments who were eager to explore career opportunities in the growing field of ed-tech. Hike Educational, known for its innovative learning platforms, was looking for talented individuals to join their dynamic team and contribute to shaping the future of education.

During the drive, students participated in a series of assessments, including technical interviews, aptitude tests, and personal interviews, tailored to evaluate both their technical skills and soft skills. The recruitment team from Hike Educational provided valuable insights into the company's culture, job roles, and the exciting career prospects within the ed-tech sector.

Students were also briefed on the company's mission to create accessible and engaging educational experiences for learners globally. The placement drive was a tremendous success, with several students receiving job offers, marking a significant step towards launching their professional careers in the rapidly expanding ed-tech industry.



Diwali Dazzle Celebration

Echelon Institute of Technology celebrated the festival of lights with much enthusiasm during the **Diwali Dazzle Celebrations**. The campus was beautifully adorned with vibrant decorations, lights, and diyas, creating a festive atmosphere that resonated with joy and positivity. The celebration brought together students, faculty, and staff, offering a much-needed break from academic routines while fostering a sense of community and togetherness. The Diwali Dazzle Celebrations included a variety of cultural performances, including traditional dance, music, and skits, highlighting the richness of Indian culture. Students participated in fun activities such as rangoli competitions, diya painting, and a fashion show themed around the spirit of Diwali. There was also a delightful Diwali feast with an array of traditional sweets and snacks, adding to the festivities. The event was a perfect blend of fun, creativity, and tradition, encouraging everyone to celebrate the spirit of Diwali while also promoting the values of unity, happiness, and prosperity. The Diwali Dazzle Celebrations at **Echelon Institute of Technology** were a memorable and joyous occasion for all who participated.



Motivational Session by Successful innovator with 54 years of Experience

In a captivating motivational session at Echelon Institute of Technology, a pioneering innovator with 54 years of experience at NASA, shared invaluable insights into the journey of space exploration and innovation. Reflecting on his vast career, he emphasized the importance of resilience and persistence, highlighting that setbacks are often stepping stones to groundbreaking achievements. From the Apollo missions to cutting-edge space technologies, his work has been instrumental in shaping NASA's legacy, and his personal journey serves as a powerful example of dedication, hard work, and the relentless pursuit of excellence. His stories of overcoming obstacles and innovating under pressure resonated deeply with students, reminding them that success often comes from embracing challenges head-on.

The session also stressed the critical role of curiosity, creativity, and collaboration in driving progress. "Innovation is not confined to space," he said, "it's about thinking differently and pushing boundaries wherever you are." His message was clear: the tools for innovation are available to everyone—whether in technology, science, or business and it is the mindset of continuous learning and problem-solving that truly defines success. Inspired by his words, students left the session with a renewed sense of purpose, motivated to pursue their own passions with the same determination and forward thinking vision.



Entrepreneurship and Innovation workshop :

At Echelon Institute of Technology, an exciting **Entrepreneurship and Innovation Workshop** was conducted, designed to empower students with the skills and mindset necessary to succeed in the world of business and technology. The workshop featured experts in the fields of entrepreneurship and innovation who shared their experiences and knowledge on turning ideas into successful ventures. Participants were introduced to the core concepts of entrepreneurship, such as identifying opportunities, risk management, and the importance of a strong business model.

Practical case studies were discussed, showcasing how creative solutions and innovative thinking have led to successful startups in various industries. The workshop also emphasized the importance of resilience and adaptability in overcoming the challenges entrepreneurs face. The workshop also provided hands-on sessions where students collaborated in teams to brainstorm and develop their own startup ideas. They were guided through the process of market research, creating a business plan, and presenting their concepts to a panel of judges.

This interactive approach not only allowed students to apply their learning in real-time but also fostered a spirit of teamwork and innovation. By the end of the workshop, students were not only equipped with valuable entrepreneurial skills but were also inspired to think critically and creatively about their future careers. The event served as a reminder that the key to success in entrepreneurship lies in a blend of passion, persistence, and a forward-thinking mindset.



Echiesta: The Annual Techno-Cultural-Sports Festival

Echiesta, the grand annual techno-cultural-sports festival at Echelon Institute of Technology, is a celebration of innovation, talent, and creativity. This year's festival was highlighted by a starstudded performance from renowned singer Aastha Gill, known for her hit tracks like *"DJ Wale Babu"* and *"Buzz."* Aastha's electrifying performance set the stage for an unforgettable evening, with students singing along and dancing to her popular tracks. Her presence at Echiesta added a sensational vibe to the festival, merging entertainment with the cultural spirit of the event. Alongside the music performances, the festival also featured a series of exciting competitions in technology, culture, and sports, providing a diverse platform for students to showcase their talents.

Echiesta also saw a panel of esteemed judges who brought their expertise to the various events and competitions. In the tech segment, experts from the industry judged coding challenges and robotics exhibitions, providing valuable feedback to budding innovators. The cultural events, including dance, drama, and music performances, were evaluated by seasoned professionals from the arts community, who recognized and applauded the creativity and hard work of the participants. The sports events were judged by accomplished athletes, ensuring a fair and competitive atmosphere. Through the diverse blend of talent, star performances, and expert evaluations, Echiesta once again proved to be a remarkable platform for students to shine and express themselves across various fields.



Thanksgiving Event Following Echiesta

Following the conclusion of Echelon Institute of Technology's annual fest, the **Thanksgiving Event** provided the perfect opportunity for the Echelon family to come together and reflect on the memories created throughout the festivities. With the campus still buzzing from the excitement of the festival, the Thanksgiving gathering took a more relaxed, introspective turn. Students, faculty, and staff gathered to express their gratitude for the successful completion of

Echiesta, the institute's annual techno-cultural-sports festival, and the shared experiences that brought them closer as a community. The event celebrated not only the achievements of the festival but also the spirit of teamwork, creativity, and dedication that made it all possible. As part of the post-festival celebrations, the Thanksgiving event allowed everyone to take a step back and appreciate the collaborative efforts that made the fest a success. A special segment was dedicated to recognizing the hard work of volunteers, organizers, and participants, with heartfelt speeches and tokens of appreciation. The festive mood lingered in the air as students enjoyed delicious food and relaxed in the company of their peers, reminiscing about the fun and camaraderie experienced during the festival. The event beautifully wrapped up a week of celebrations, reinforcing the importance of gratitude, community, and the bonds that tie everyone together at Echelon Institute of Technology.



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Acknowledgement

For the publication of “THE TECHNOPEdia” I would like to thank the members of the faculty of the CSE department for their valuable contribution.

Ms. Suman
(Assistant Professor, CSE Department)

Faculty Members:

Ms. Suman
(Assistant Professor)

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