TECHNOPEDIA

A Quarterly Newsletter

Department of Computer Application, Echelon Institute of Technology, Faridabad

This is the first issue of "THE TECHNOPEDIA" of the academic year 2024-2025. Here, I would like to encourage all the students to participate in co-curricular activities.

Vishvendra Singh
(Assistant professor, DCA Department)

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Message from the Editor

We are delighted to bring you the freshest updates from the world of "Technopedia." Creativity is all about harnessing your imagination, and as the saying goes, "Ideas multiply like rabbits; you get a couple, learn to handle them, and soon you have a dozen." To ensure our readers' continued engagement and respect, this editorial remains committed to keeping you informed about the latest developments within the department. **Institute Vision and Mission**

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 selfreflective

consciousness by building a culture of inspiration, exploration and growth." **Mission:**

M-1 Having a culture of inspiration, exploration and invention through effective, experiential teaching-learning giving rise to ever evolving knowledge and wisdom.

M-2 To have self-inspired students ever engaged in continually working upon and sharpening and deepening computational, creative, innovative and leadership consciousness.

M-3 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. **Department Vision and Mission**

Vision:

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

M-1 To produce industry-ready professionals for successful careers in computer science and related domains.

M-2 To provide exposure to cutting-edge computational tools in the field of computer science and engineering.

M-3 To create competent and ethical computer professionals through quality education, innovative research, and exposure to entrepreneurship.

Student Speaks

"Being a student at **Echelon Institute of Technology** has been one of the most rewarding experiences of my life. The supportive faculty, well-structured curriculum, and endless learning opportunities have truly helped me grow — both academically and personally. The college not only focused on classroom learning but also encouraged participation in seminars, workshops, and extracurricular activities, which helped me gain confidence and practical skills.

What I appreciate the most is how approachable and helpful the professors are. They've always guided me whenever I needed support. The environment here is friendly, inclusive, and inspiring.

I'm proud to be a part of this institution and will always carry these valuable experiences with me wherever I go."

- **PANKAJ (22-BCA-60)**

Latest Trends in Computer Science

Artificial Intelligence

Artificial Intelligence (AI) and Machine Learning (ML) remain at the forefront of computer science. By 2025, these technologies are expected to be integrated into nearly every sector, from healthcare to finance. Students in computer science programs should prioritize coursework that focuses on AI and ML. Institutions like the best engineering colleges for computer science are already adapting their curricula to include these vital subjects.

For those studying at the best BTech college in Noida, understanding AI and ML will be crucial for securing internships and job placements. Graduates will need to demonstrate not only theoretical knowledge but also practical experience with AI and ML technologies. Proficiency in programming languages like Python and familiarity with libraries such as TensorFlow or PyTorch will be beneficial.
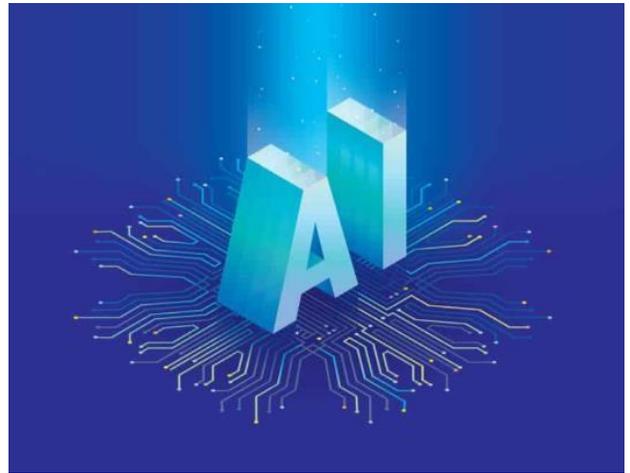

Fig1-Artificial Intelligence

Augmented Reality (AR)

In 2025, Augmented Reality (AR) is poised to be a major tech trend, further integrating into consumer and enterprise applications. With the evolution of hardware, such as advanced AR glasses and improvements in mobile devices, AR will offer more immersive, interactive experiences.

This technology is set to transform industries like retail, real estate, and education by enhancing how users visualize products, learn, and interact with their environments. AR-powered solutions will allow users to seamlessly

overlay digital information onto the real world, bridging the gap between physical and digital experiences.

Fig2- Augmented Reality (AR)

Activities in the department

IBM SOFT SKILL PROGRAM

On April 10, 2025, Echelon Institute of Technology hosted an engaging IBM Soft Skills Program designed to equip students with the interpersonal tools essential for today's workplace. Renowned trainers from IBM led interactive workshops on effective communication, leadership, teamwork, and time management, guiding participants through role-plays, group challenges, and real-world case studies. Attendees honed their resume-writing and interview techniques during dedicated breakout sessions, receiving personalized feedback that underscored IBM's commitment to professional excellence. The day also featured a panel discussion with EIT alumni now thriving in tech and consultancy roles, who shared insights on networking and workplace etiquette. As the program concluded, each student received a certificate of completion, ready to complement their technical expertise with the soft skills that set future leaders apart.

Training Session on Aptitude And Reasoning

Echelon Institute of Technology's Career Development Cell organized an intensive training session on aptitude and reasoning to sharpen students' problem-solving abilities and boost their employability. Led by seasoned corporate trainers, the half-day workshop covered key areas such as quantitative aptitude, verbal reasoning, logical puzzles, and data interpretation. Through a blend of interactive lectures, timed mock tests, and team-based brain-teasers, participants learned strategies for tackling competitive-exam style questions under pressure. Dedicated feedback rounds helped each student identify strengths and target areas for improvement, while peer discussions fostered

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collaborative learning. By the end of the session, attendees walked away with not only enhanced analytical skills but also newfound confidence to excel in interviews, placement drives, and academic assessments.

NPTEL Awareness E-Workshop

On February 06, 2025, Echelon Institute of Technology hosted an NPTEL Awareness E-Workshop to introduce students and faculty to the wealth of online courses and certification opportunities offered through the National Programme on Technology Enhanced Learning. The session began with an overview of NPTEL's mission and platform features—covering course enrollment, video lectures, and proctored examination processes—presented by our in-house e-learning coordinator. Participants then engaged in a live demo of creating an NPTEL account, browsing course catalogs, and accessing supplemental resources such as discussion forums and assignments. A hands-on segment guided attendees through enrolling in upcoming courses on topics ranging from Artificial Intelligence to Database Systems, while tips on time management and earning successful course certificates helped ensure meaningful engagement. The workshop concluded with a Q&A, where students clarified doubts about course levels, credit transfers, and leveraging NPTEL certifications for internships and campus placements. By the end of the day, everyone was equipped with the know-how to seamlessly integrate NPTEL's high-quality content into their academic and professional development plans.

Rawfest 2025

On February 21, Echelon Institute of Technology unleashed its first-ever RAWFest— a vibrant celebration of "Real Arts and Wild" talent that brought together musicians, visual artists, dancers, and Makers from across campus.

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The day kicked off with an electrifying band jam in the open-air amphitheater, where four student groups battled it out for the "Raw Sound" title. Meanwhile, the Innovation Alley showcased DIY engineering projects and interactive art installations—from kinetic sculptures to live digital graffiti—each crafted by our budding technologists and artists. In the Cultural Corner, folk dancers and spoken-word poets delivered powerful performances that underscored the festival's theme of unfiltered expression. Food trucks lined the quad, serving everything from artisanal smoothies to global street-food bites, while a pop-up "Open Mic" stage gave singers and storytellers the perfect platform to share their voices. By evening, the campus was alight with neon installations and a rooftop DJ set, capping off a day that not only celebrated raw creativity but also strengthened the bonds of our EIT community.

Workshop on Entrepreneurship Awareness Program

On 5th March 2025, Echelon Institute of Technology organized an Entrepreneur Awareness Workshop to spark the startup spirit among its students. Hosted in the Innovation Hub, the session featured a keynote address by Ms. Kavita Desai, founder of a successful ed-tech startup, who shared her journey from campus project to market launch. Participants then broke into small teams for hands-on activities—crafting value propositions, mapping customer segments, and pitching ideas in rapid-fire rounds. Representatives from the college's incubation cell outlined funding pathways, mentorship opportunities, and legal basics for company formation, while alumni entrepreneurs joined a panel discussion on overcoming early-stage challenges. By the end of the day, attendees not only gained practical tools for turning ideas into ventures but also left energized by new collaborations and actionable roadmaps to pursue their entrepreneurial ambitions.
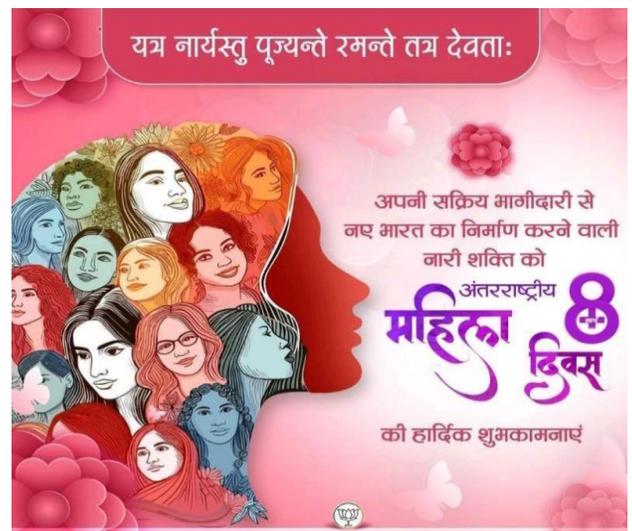
Women's Day Celebration

On March 8, 2025, Echelon Institute of Technology came together to honor International Women's Day with a vibrant celebration of achievement, empowerment, and solidarity. The day began with an inspiring keynote by alumna Dr. Anjali Menon, whose journey from EIT graduate to biotech researcher underscored the power of perseverance and passion. A panel of faculty and student leaders—representing engineering, humanities, and entrepreneurship—shared their insights on breaking barriers in traditionally male-dominated fields, followed by interactive workshops on leadership skills, self-defense basics, and career mapping. The campus quad was transformed into a "Wall of Voices," where participants posted messages of encouragement, gratitude, and hopes for gender equality, while a photo exhibition showcased the accomplishments of women across our community. The festivities concluded with a lively cultural showcase featuring original poetry, dance performances, and a musical tribute, leaving everyone energized and united in advancing women's achievements at EIT and beyond.

Faculty Achievements-

Ms. Shallu Hassija

Participated in one week faculty development program on "Artificial Intelligence and Machine Learning" organized by E&ICT Academy IIT Guwahati held on 17th to 21st Jan, 2025 in association with Inderprastha Engineering College (Hub), Sharda University Agra(spoke) and Echelon Institute of Technology and support from UniConverge Technologies Pvt. Ltd.

Ms. Sunita

Participated in one week faculty development program on "Artificial Intelligence and Machine Learning" organized by E&ICT Academy IIT Guwahati held on 17th to 21st Jan, 2025 in association with Inderprastha Engineering College (Hub), Sharda University Agra(spoke) and Echelon Institute of Technology and support from UniConverge Technologies Pvt. Ltd.

Ms. Jyoti Kumari

From Echelon Institute of Technology, Faridabad has successfully completion of Microsoft India & SAP India led faculty Development Program on "Applied AI : Practical Implementation" under TechSaksham Program from 6th Jan 2025 – 10th Jan 2025.

Acknowledgement

EDITORIAL BOARD

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- Mr. Vishvendra Singh (Assistant Professor)
- Ms. Payal (Assistant Professor)

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