TECHNOPEDIA

A Quarterly Newsletter

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Department of Computer Science & Engineering



EDITORIAL BOARD:

Faculty Members: Ms. Sankeeta Jha(Assistant Professor)

Student Members:

Ishant Aggarwal(24-CSE-094)

Lakshita Sharma(24-CSE-119)

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

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.

VISION STATEMENT OF THE DEPARTMENT

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

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.

– Ishant Aggarwal (24-CSE-094)

Latest Trends in Computer Science

AI-Driven Browser Automation



In October 2024, Alphabet's Google announced the development of an AI technology, codenamed 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:

❖ Campus Placement Drive For Intellus Prime

❖ Online Faculty Development Program on Recent Trends and Applications of Artificial Intelligence

❖ Strategic MoU Signing with Ciphermatic Consulting Pvt. Ltd.

❖ Early Campus Recruitment Drive with Ciphermetic Consulting

❖ Online Career Guidance and Self-Exploration Session with Sh. Prabhat Agarwal

❖ Faculty Development Program on Fundamentals of Indian Knowledge System (IKS)

❖ Campus Recruitment Drive with JoulesToWatts Business Solutions

❖ Specialized AWS Cloud Training via ICT and Infosys

❖ Multi-Corporate Placement Drive with DeltaX

❖ Multi-Corporate Placement Drive with TimesPro

❖ Expert Session on VC Funding and Early-Stage Startups

❖ Interactive Session and Masterclass with Dr. R. D. Sharma

❖ ICT Academy Next Gen Edupreneur Award Win at BRIDGE '25

❖ Aptitude and Competitive Prep Seminar with Career Launcher

❖ Dandiya Utsav Cultural Celebration

❖ Gold Medal Victory at UDGHOSH-2025, IIT Kanpur

❖ Coden'Circuitz STEM Workshop for School Innovators

Message from the Editor

Welcome to the edition of Technopedia!

Innovation is continuing to shape the future. This edition shows the ideas and technologies that are making that happen. From trends, to exciting discoveries we look at how imagination is changing the world of technology.

Our goal is to make sure you are informed, inspired and prepared to take on chances. We hope this issue gives you ideas and helps you stay in front in the constantly changing world of technology.

Happy reading!

Activities in the Department

60-Hour "Skill Up" Employability Program Launch

Date: July 14, 2025

Organized by: Echelon Institute of Technology in collaboration with Infosys CSR, Centum Foundation, and ICJ



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initiative was designed to bridge the gap between academic learning and industry expectations

by equipping students with the essential professional skills required to excel in today's competitive job market. Funded by **Infosys** under its **Corporate Social Responsibility (CSR)** initiative, implemented by the **Centum Foundation**, and conducted in partnership with **Innovation Comes Jointly (ICJ)**, the programme reflected a shared commitment to enhancing student employability and career readiness.

The comprehensive training programme focused on developing both technical and non-technical competencies that are highly valued by employers. Throughout the sessions, students received extensive training in **soft skills, professional communication, corporate etiquette, personality development, teamwork, leadership, interview preparation, and workplace ethics**. Industry experts and experienced trainers conducted interactive sessions, practical exercises, and group activities that enabled participants to strengthen their communication abilities, improve interpersonal skills, and gain confidence in professional environments.

In addition to skill development, the programme provided valuable career guidance and mentorship to help students make informed decisions about their professional journeys. Participants gained insights into current industry expectations, workplace culture, and effective strategies for succeeding in recruitment processes. The interactive nature of the training encouraged active participation, allowing students to enhance their presentation skills, problem-solving abilities, and overall professional outlook through real-world scenarios and collaborative learning experiences.

The 60-hour training programme proved to be a significant step towards preparing students for successful careers in the corporate world. By partnering with leading organizations such as Infosys CSR, Centum Foundation, and ICJ, Echelon Institute of Technology continues to strengthen its commitment to holistic education and industry-oriented learning. Such initiatives ensure that graduates are not only academically proficient but also professionally competent, confident, and well-equipped to meet the evolving demands of the global workforce, thereby contributing to improved placement opportunities and long-term career success.

Five-Day Online Faculty Development Program on AI Applications

Date: July 14 – 18, 2025

Organized by: Department of Electronics and Communication Engineering (ECE)



Echelon Institute of Technology, through its **Department of Electronics and Communication Engineering (ECE)**, successfully organized a **Five-Day Online Faculty Development Program (FDP)** titled **"Recent Trends and Applications of Artificial Intelligence."** The

programme was conducted with the support of the **Institution's Innovation Council (IIC)** and **IEEE Student Branches** with the objective of enhancing the knowledge and research capabilities of faculty members in the rapidly evolving field of Artificial Intelligence (AI). The national-level initiative brought together academicians, research scholars, industry experts, and professionals from across the country, providing a valuable platform for knowledge sharing and academic collaboration.

The five-day programme featured a series of expert sessions delivered by distinguished speakers from premier institutions, including **IITs** and **NITs**, as well as experienced professionals from the industry. The sessions covered a wide range of emerging topics such as artificial intelligence, machine learning, neural networks, deep learning, data analytics, and their practical applications across various engineering and multidisciplinary domains. Participants also gained valuable insights into recent technological advancements, research opportunities, and the growing impact of AI in solving real-world challenges across industries.

The interactive sessions encouraged participants to engage in meaningful discussions, exchange research ideas, and explore innovative approaches to integrating Artificial Intelligence into teaching, research, and industrial applications. The programme provided faculty members with an opportunity to enhance their technical expertise, stay updated with the latest developments in AI, and strengthen their ability to deliver industry-relevant education to students. The exchange of knowledge among experts and participants created a collaborative learning environment that enriched the overall experience.

The Faculty Development Program concluded successfully with enthusiastic participation and positive feedback from attendees. The initiative reaffirmed Echelon Institute of Technology's commitment to promoting continuous professional development, academic excellence, and research-driven innovation among its faculty members. By organizing such national-level programmes, the institute continues to foster a culture of lifelong learning, technological advancement, and academic collaboration, ensuring that educators remain well-equipped to prepare students for the rapidly changing landscape of modern engineering and emerging technologies.

Academic Excellence in Community Engagement: STEAM Exhibition

Judging

Date: July 12, 2025

Venue: Modern School, Sector 17, Faridabad

Modern School Sec-17 Hosts STEAM Exhibition Showcasing Student Innovation and Creativity

Nidhi Priya
info@impressive times.com





FARIDABAD :"A vibrant STEAM Exhibition was held at Modern School ,sector 17 Faridabad today i.e.on 12th of July ,2025 showcasing the creative and scientific talents of the students. The event was organized with the objective of promoting interdisciplinary learning in Science, Technology, Engineering, Arts, and Mathematics (STEAM) and to encourage innovation and problem-solving skills among students. Students from class 3 to class12 displayed their self made projects made during the Summer Vacation. The exhibition was inaugurated by Dr.Shital Prasad, Professor , EIT , Faridabad and Ms. Arti Kadam,Assistant Professor EIT, Faridabad .They commended the efforts of both students and teachers in integrating academic concepts with hands-on learning experiences. Parents, teachers, and students from various classes visited the exhibition and were enthralled by the diverse range of models on display. The exhibition included: Science models ,Technology exhibits, Engineering designs,Art objects creatively representing scientific ideas and mathematical patterns,Mathematical puzzles and ga designed to test logical reasoning numerical skills. Besides,there were mo on Languages - Hindi, English, French, S skrit and Social science. Students explai their projects with confidence, demons ing not only their understanding of conc but also their ability to apply them to world problems. The event concluded presentation of mementoes to the guest Dr.Mrs.Neelima Jain, Principal of the sch

STUDENTS EXPLAINED THEIR PROJECTS WITH CONFIDENCE, DEMONSTRATING NOT ONLY THEIR UNDERSTANDING OF CONCEPTS BUT ALSO THEIR ABILITY TO APPLY THEM TO REAL-WORLD PROBLEMS. THE EVENT CONCLUDED WITH PRESENTATION OF MEMENTOES TO THE GUESTS BY DR.MRS. NEELIMA JAIN, PRINCIPAL OF THE SCHOOL.

स्टीम पर प्रदर्शनी में छात्रों की प्रतिभा का प्रदर्शन





सजग इंडिया
Mukesh Mondal

फरीदाबाद। मॉडर्न स्कूल, सेक्टर 17, फरीदाबाद में आज यानी 12 जुलाई, 2025 को एक जीवंत स्टीम प्रदर्शनी का आयोजन किया गया, जिसमें छात्रों की रचनात्मक और वैज्ञानिक प्रतिभाओं को प्रदर्शित किया गया। इस कार्यक्रम का उद्देश्य विज्ञान, प्रौद्योगिकी, इंजीनियरिंग, कला और गणित (स्टीम) में अंतःविषय शिक्षा को बढ़ावा देना और छात्रों में नवाचार और समस्या-समाधान कौशल को प्रोत्साहित करना था। कक्षा 3 से कक्षा 12 तक के छात्रों ने ग्रीष्मकालीन अवकाश के दौरान बनाए गए अपने स्वयं के प्रोजेक्ट प्रदर्शित किए। प्रदर्शनी का उद्घाटन डॉ. शीतल प्रसाद, प्रोफेसर, ईआईटी, फरीदाबाद और सुश्री आरती कदम, सहायक प्रोफेसर, ईआईटी, फरीदाबाद ने किया। उन्होंने शैक्षणिक अवधारणाओं को व्यावहारिक शिक्षण अनुभवों के साथ एकीकृत करने में छात्रों और शिक्षकों दोनों के प्रयासों की सराहना की। विभिन्न कक्षाओं के अभिभावकों, शिक्षकों और छात्रों ने प्रदर्शनी का दौरा किया और प्रदर्शित मॉडलों की विविध श्रृंखला को देखकर मंत्रमुग्ध हो गए। प्रदर्शनी में शामिल थे- विज्ञान मॉडल, प्रौद्योगिकी प्रदर्शनियाँ, इंजीनियरिंग डिज़ाइन, वैज्ञानिक विचारों और गणितीय प्रतिमानों का रचनात्मक प्रतिनिधित्व करने वाली कलाकृतियाँ, तार्किक तर्क और संख्यात्मक कौशल का परीक्षण करने के लिए डिज़ाइन की गई गणितीय पहेलियाँ और खेल। इसके अलावा, भाषाओं - हिंदी, अंग्रेजी, फ्रेंच, संस्कृत अ सामाजिक विज्ञान पर मॉडल भी थे। छात्रों आत्मविश्वास के साथ अपनी परियोजनाओं व व्याख्या की, न केवल अवधारणाओं की अपनी समझ का प्रदर्शन किया, बल्कि उन्हें वास्तविक दुनिया व समस्याओं पर लागू करने की अपनी क्षमता का प्रदर्शन किया। कार्यक्रम का समापन विद्यालय व प्रधानाचार्या डॉ. श्रीमती नीलिमा जैन द्वारा अतिथि को स्मृति चिन्ह भेंट करने के साथ हुआ।

Echelon Institute of Technology proudly extended its academic expertise beyond the campus as senior faculty members **Dr. Shital Prasad** and **Ms. Arti Kadam** represented the institute as **Chief Guests and judges** at the **STEAM-13 Exhibition** held at **Modern School, Sector 17, Faridabad**. The event was organized to encourage young learners to explore innovation through the integrated disciplines of **Science, Technology, Engineering, Arts, and Mathematics (STEAM)**. Their participation reflected Echelon's continued commitment to promoting scientific curiosity, innovation, and academic collaboration within the wider educational community.

The exhibition featured an impressive display of innovative projects developed by students from primary and secondary school levels. The participants presented creative models, scientific experiments, engineering prototypes, and technology-based solutions that demonstrated their imagination, problem-solving abilities, and understanding of real-world concepts. The event provided young students with an excellent platform to showcase their ideas while gaining exposure to practical learning beyond the classroom.

As judges, Dr. Shital Prasad and Ms. Arti Kadam carefully evaluated the projects based on creativity, technical understanding, innovation, presentation, and practical applicability. They interacted with the participants, appreciated their efforts, and provided valuable technical feedback and constructive suggestions to help students further refine their ideas. Their guidance motivated the young innovators to continue exploring scientific concepts with confidence and encouraged them to pursue future opportunities in research, technology, and engineering.

The institute's participation in the STEAM-13 Exhibition highlighted Echelon Institute of Technology's dedication to community engagement and academic mentorship. By contributing its expertise to educational initiatives beyond the campus, Echelon continues to inspire young minds, strengthen industry-academia-school collaborations, and promote a culture of innovation and experiential learning. Such initiatives reinforce the institute's vision of nurturing future innovators while making meaningful contributions to the advancement of science and technology education in the community.

Faculty Development Program on Indian Knowledge Systems (IKS)

Date: July 21 – 25, 2025

Organized by: Echelon Institute of Technology (NITTTR Remote Center)

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Echelon Institute of Technology successfully organized a **Five-Day Faculty Development Program (FDP)** on **"Fundamentals of Indian Knowledge System (IKS)"** in collaboration with **NITTTR Chandigarh** through its **NITTTR Remote Center**. The programme was conducted in alignment with the objectives of the **National Education Policy (NEP) 2020**, with the aim of enhancing faculty understanding of India's rich intellectual heritage and its relevance in contemporary education. The initiative provided educators with an opportunity to explore the interdisciplinary dimensions of Indian Knowledge Systems and their integration into modern teaching and research practices.

The five-day programme featured a series of live-streamed expert sessions delivered by eminent academicians and subject specialists from NITTTR Chandigarh. The sessions covered a wide range of topics, including the historical evolution of Indian Knowledge Systems, contributions in science, mathematics, linguistics, philosophy, environmental sustainability, and traditional engineering practices. Participants gained valuable insights into how ancient Indian wisdom can complement modern scientific approaches and contribute to innovation, ethical decision-making, and sustainable development.

The programme also emphasized the practical integration of Indian Knowledge Systems into higher education curricula through interdisciplinary teaching methodologies. Faculty members actively participated in discussions, knowledge-sharing sessions, and interactive activities that explored innovative ways to incorporate IKS concepts into engineering and technical education. The enriching academic interactions enabled participants to broaden their perspectives while strengthening their understanding of culturally rooted and globally relevant educational practices.

The Faculty Development Program concluded successfully with enthusiastic participation from educators, who received certification upon successful completion of the programme. The initiative reaffirmed Echelon Institute of Technology's commitment to academic excellence, continuous faculty development, and the effective implementation of the National Education Policy 2020. By organizing such programmes, the institute continues to promote a balanced approach that integrates India's rich knowledge heritage with modern technology and innovation, preparing educators to deliver holistic and future-oriented education.

Specialized AWS Cloud Computing Training

Date: August 4, 2025

Organized by: Department of Computer Science & Engineering with ICT Academy & Infosys



Echelon Institute of Technology, through its **Department of Computer Science & Engineering**, successfully organized a **Specialized AWS Cloud Computing Training Programme** for **7th-semester B.Tech students** in collaboration with **ICT Academy** under the **Infosys Foundation's Employability Initiative**. The programme was designed to provide students with practical knowledge of cloud computing technologies and prepare them for the growing demand for cloud professionals in the IT industry. The initiative aimed to bridge the gap between academic learning and industry requirements by offering hands-on exposure to one of the world's leading cloud platforms.

The training programme introduced participants to the fundamentals of **Amazon Web Services (AWS)**, covering essential topics such as cloud architecture, virtual computing environments, storage solutions, networking, security, deployment strategies, and infrastructure management. Under the guidance of certified trainers and industry experts, students gained practical experience in configuring cloud services, managing virtual servers, and understanding how cloud-based applications are designed and deployed in real-world enterprise environments. The interactive sessions enabled students to strengthen both their theoretical understanding and technical proficiency through practical demonstrations and hands-on exercises.

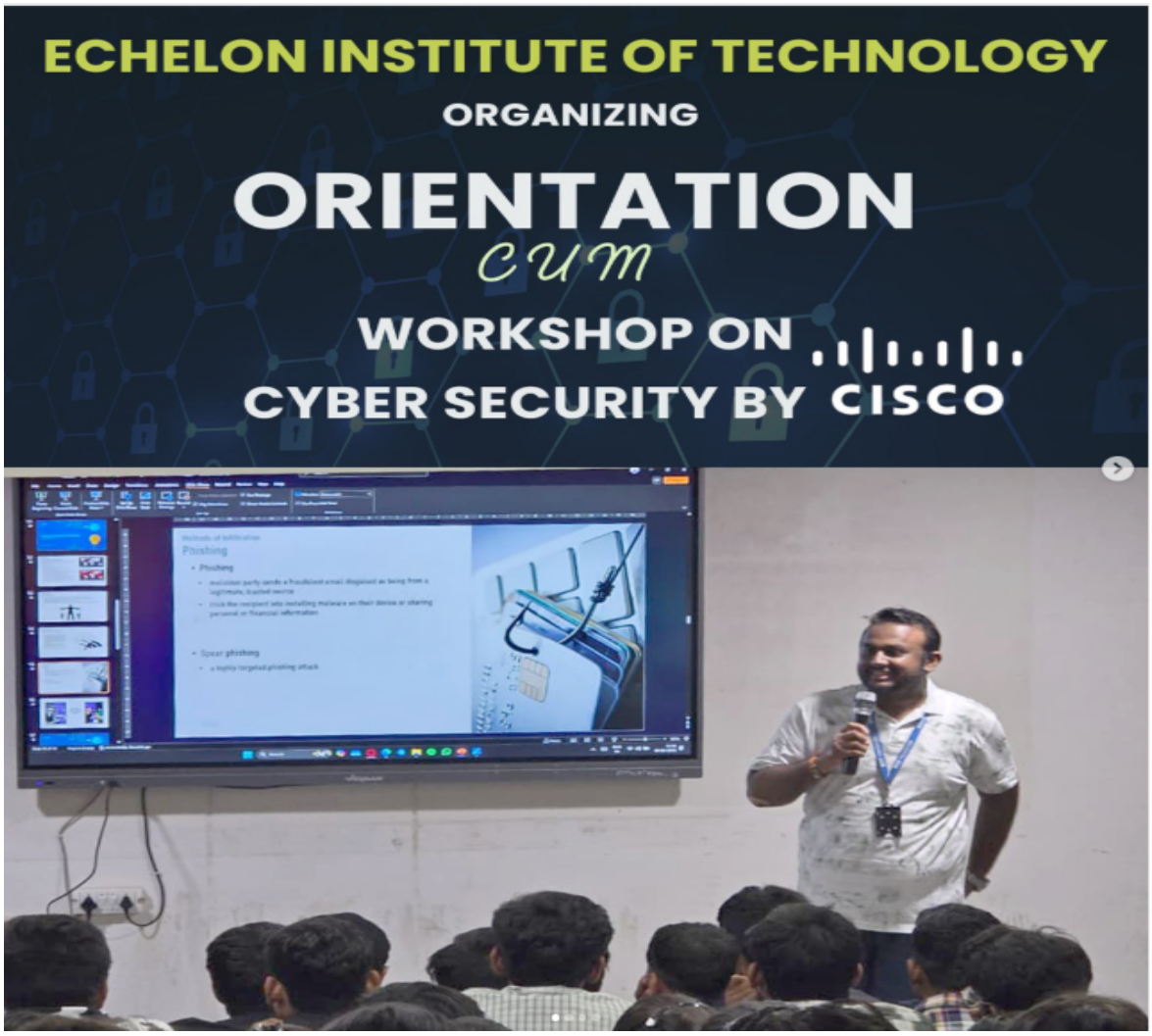
Throughout the programme, participants explored real-world business applications of cloud computing and learned how organizations leverage AWS technologies to improve scalability, efficiency, and digital transformation. The trainers also highlighted the importance of cloud certifications, industry best practices, and emerging career opportunities in cloud computing, motivating students to pursue advanced learning and professional certification. The practical exposure helped students build confidence in applying cloud technologies to solve real-world business and engineering challenges.

The Specialized AWS Cloud Computing Training Programme proved to be a valuable skill-development initiative, equipping students with industry-relevant technical competencies and enhancing their career readiness. By collaborating with ICT Academy and the Infosys Foundation, Echelon Institute of Technology continues to provide its students with opportunities to acquire cutting-edge technological skills aligned with current industry demands. Such initiatives reaffirm the institute's commitment to producing competent, confident, and future-ready professionals who are well-prepared to excel in corporate recruitment processes and the rapidly evolving technology landscape.

Orientation & Cybersecurity Workshop by CISCO

Date: August 20, 2025

Organized by: Skill Development Team in collaboration with CISCO NetAcad



Echelon Institute of Technology, through its **Skill Development Team** in collaboration with **CISCO Networking Academy (NetAcad)**, organized an **Orientation and Cybersecurity Workshop** to introduce students to the rapidly growing field of information security and cyber defense. The workshop was designed to create awareness about the increasing importance of cybersecurity in today's digital world while equipping students with the knowledge and skills

required to pursue rewarding careers in this high-demand domain. The initiative reflected the institute's commitment to preparing students for emerging technological challenges and industry opportunities.

The workshop was led by **Mr. Kartik Bharadwaj**, Senior Technical Consultant at **NIIT**, who delivered a series of engaging and informative sessions for students from multiple academic programmes. Through practical examples and real-world case studies, he explained the fundamentals of cybersecurity, network vulnerabilities, cyber threats, phishing attacks, malware protection, and strategies for securing digital systems. Participants also gained valuable insights into best practices for protecting personal and organizational data in an increasingly connected digital environment.

In addition to technical concepts, the workshop introduced students to the globally recognized **CISCO NetAcad** learning ecosystem and highlighted the certification pathways available in networking and cybersecurity. The speaker discussed the skills required by the industry, current career opportunities in cybersecurity, and the growing demand for qualified professionals across various sectors. Students actively participated in interactive discussions and gained a better understanding of how cybersecurity professionals contribute to safeguarding digital infrastructure in organizations worldwide.

The Orientation and Cybersecurity Workshop proved to be an enriching learning experience, inspiring students to explore the field of information security as a promising career option. By collaborating with industry leaders such as CISCO NetAcad, Echelon Institute of Technology continues to provide its students with valuable industry exposure, professional guidance, and future-oriented learning opportunities. Such initiatives reinforce the institute's commitment to developing technically skilled, security-conscious, and industry-ready professionals capable of meeting the evolving demands of the global technology landscape.

Keynote Interaction with Eminent Educator Dr. R. D. Sharma

Date: August 31, 2025

Venue: Echelon Institute of Technology Campus



Echelon Institute of Technology had the privilege of welcoming **Dr. R. D. Sharma**, the renowned mathematician, author, and academician, for an inspiring keynote interaction with students of Engineering and Computer Applications. The session was organized with the objective of motivating students to strengthen their analytical abilities, develop logical thinking, and appreciate the fundamental role of mathematics in engineering and technological innovation. The event witnessed enthusiastic participation from students and faculty members, making it a memorable academic experience for the entire Echelon community.

During his address, Dr. Sharma shared valuable insights into the importance of conceptual clarity, mathematical reasoning, and systematic problem-solving in achieving academic and professional success. Drawing upon his extensive experience as an educator and author, he encouraged students to approach mathematics with confidence and curiosity rather than fear. He explained how a strong foundation in mathematical concepts enhances critical thinking, decision-making, and the ability to solve complex engineering problems efficiently.

The interactive session provided students with an opportunity to engage directly with one of India's most respected educators. Dr. Sharma addressed questions related to effective learning strategies, examination preparation, and overcoming common academic challenges. Through inspiring anecdotes and practical guidance, he motivated students to adopt disciplined study habits, remain persistent in the face of difficulties, and continuously strive for excellence in their academic pursuits. His words resonated deeply with the audience and inspired students to develop a lifelong passion for learning.

The keynote interaction concluded with an engaging exchange between Dr. Sharma, students, and faculty members, leaving participants with renewed motivation and a deeper appreciation for the role of mathematics in technical education. The event reaffirmed Echelon Institute of Technology's commitment to providing its students with opportunities to learn from distinguished academicians and thought leaders. By hosting such enriching academic interactions, the institute continues to cultivate a culture of intellectual curiosity, innovation, and academic excellence that prepares students to excel in their future careers.

Cracking the Code: Aptitude Seminar with Career Launcher

Date: September 18, 2025 | Venue: Room No. S36



Echelon Institute of Technology, in collaboration with **Career Launcher**, organized an insightful seminar titled **"Master Your Aptitude: Techniques for Competitive Edge"** to help students strengthen the aptitude and reasoning skills required for competitive examinations and campus recruitment drives. The seminar was designed to equip students with effective problem-solving techniques, logical reasoning strategies, and time-management skills that are essential for succeeding in today's highly competitive placement process. The initiative reflected the institute's commitment to enhancing students' employability and preparing them for successful professional careers.

The session was conducted by **Mr. Abhishek Pandey**, an Expert Management Professional, who shared valuable insights into the various aptitude assessment patterns followed by leading companies and competitive examinations. Through an engaging and interactive approach, he explained mathematical shortcuts, logical reasoning techniques, data interpretation methods, and verbal aptitude strategies that enable candidates to solve problems accurately within limited time. Students also learned practical tips for improving speed, maintaining accuracy, and managing exam pressure during recruitment assessments.

The seminar included several interactive activities, problem-solving exercises, and real-time practice questions that encouraged active participation from the students. Participants gained hands-on experience in applying different techniques to solve aptitude problems efficiently while understanding the importance of regular practice and analytical thinking. The session concluded with an exciting quiz competition, where students tested their newly acquired skills, and the top performers were recognized with prizes for their outstanding performance.

The seminar proved to be highly informative and beneficial for students preparing for placements and competitive examinations. By organizing such career-oriented programmes in collaboration with reputed training partners, Echelon Institute of Technology continues to provide students with opportunities to develop both technical expertise and essential

employability skills. The initiative reaffirmed the institute's commitment to preparing confident, competent, and industry-ready professionals capable of excelling in today's dynamic and competitive job market.

Rhythms, Culture & Community: Dandiya Utsav 2025

Date: September 24, 2025 | Venue: Echelon Square



Echelon Institute of Technology organized Dandiya Utsav 2025 on September 24, 2025, at Echelon Square to mark the joyous occasion of Navratri. The event, conducted in collaboration with the Drishya Media Club, aimed to promote cultural values, foster community bonding, and create a happy atmosphere for students to enjoy one of India’s most cherished festivals. The festivity saw the enthusiastic participation of students, faculty members, and staff, bringing the institute campus together in a spectacular dance floor.

The venue was decorated with bright and beautiful decorations, adding to the festive cheer of the event. In addition, the event's organizers played energetic music that got everyone dancing and having fun throughout the festivity. The students arrived at the event in traditional ethnic attires to witness and participate in a night of pure joy and dance. As the rhythmic beats of Garba and Dandiya music played, the students joined the dance circle and danced exuberantly in celebration of Navratri. Moreover, cultural performances, music sessions, and food stalls added to the festivity of this special event.

The Dandiya Utsav 2025 was a great opportunity for students from different cultural and regional backgrounds to mingle with each other and share their unique traditions and customs. It also allowed the students to bond and cooperate with each other to have a fantastic time during their college life while promoting teamwork and friendship. What makes this event even better is that it offered students a much-needed break from their studies and enabled them to enjoy the festivity with their faculty members and staff.

Dandiya Utsav 2025 turned out to be a spectacular event that brought the Echelon family together. The festivity created a fantastic opportunity for students to celebrate Navratri by dancing to the beats of Garba and Dandiya music and sharing traditional food. By organizing such special events and encouraging students to participate in cultural activities, Echelon Institute of Technology demonstrates its commitment to fostering students' holistic development by promoting cultural values, teamwork, and community bonding in addition to academic excellence and professional skills.

Cultural Integration & Celebration: "Dandiya Utsav 2025"

Date: September 24, 2025

Venue: Echelon Square



Echelon Institute of Technology, through its **Training & Placement Division** in collaboration with the **Department of Computer Science & Engineering**, successfully organized an industry-oriented workshop titled **"The Journey 2 Salesforce | Trailblazer in Campus."** The event was conducted in association with **Salesforce Trailblazers in Campus (TIC)** and **Ciphermetic Consulting Pvt. Ltd.** with the objective of introducing students to the Salesforce ecosystem and creating awareness about the growing career opportunities in cloud-based enterprise technologies. The workshop provided students with valuable industry exposure and

practical insights into one of the world's leading Customer Relationship Management (CRM) platforms.

The workshop was led by distinguished industry experts, including **Mr. Sunny Patwa**, CEO of Ciphermetic Consulting Pvt. Ltd., **Mr. Vaibhav Mathur**, and **Mr. Harshit Malik**, who shared their professional experiences and expertise in enterprise software solutions. The speakers introduced students to the fundamentals of Salesforce, explaining its cloud-based architecture, CRM capabilities, automation tools, and wide range of business applications across industries. They also discussed how organizations leverage Salesforce to streamline operations, enhance customer engagement, and accelerate digital transformation.

During the interactive sessions, students gained valuable insights into the Salesforce ecosystem, certification pathways, career prospects, and the technical skills required to build successful careers as Salesforce professionals. The experts emphasized the importance of continuous learning, hands-on practice, and industry-recognized certifications in enhancing employability within the rapidly expanding cloud computing and enterprise software domain. Real-world case studies and demonstrations further helped participants understand the practical applications of Salesforce technologies in modern business environments.

The workshop concluded with an engaging question-and-answer session, where students interacted directly with the industry experts, clarified their queries, and received valuable career guidance. The networking opportunities provided participants with a deeper understanding of the enterprise technology landscape and inspired them to explore specialized career paths in cloud computing and CRM solutions. Through such industry collaborations, Echelon Institute of Technology continues to strengthen its commitment to career-oriented education, industry-academia partnerships, and the holistic development of students, ensuring they are well-prepared to meet the evolving demands of the global technology sector.

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.

Faculty Members:

Ms. Sankeeta Jha

Assistant Professor,CSE

Echelon Institute of Technology, Faridabad.

TECHNOPEDIA

A Quarterly Newsletter

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Department of Computer Science & Engineering



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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

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.

VISION STATEMENT OF THE DEPARTMENT

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

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.

– Ishant Aggarwal (24-CSE-094)

Latest Trends in Computer Science

AI-Driven Browser Automation



In October 2024, Alphabet's Google announced the development of an AI technology, codenamed 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:

❖ Campus Placement Drive For Intellus Prime

❖ Online Faculty Development Program on Recent Trends and Applications of Artificial Intelligence

❖ Strategic MoU Signing with Ciphermatic Consulting Pvt. Ltd.

❖ Early Campus Recruitment Drive with Ciphermetic Consulting

❖ Online Career Guidance and Self-Exploration Session with Sh. Prabhat Agarwal

❖ Faculty Development Program on Fundamentals of Indian Knowledge System (IKS)

❖ Campus Recruitment Drive with JoulesToWatts Business Solutions

❖ Specialized AWS Cloud Training via ICT and Infosys

❖ Multi-Corporate Placement Drive with DeltaX

❖ Multi-Corporate Placement Drive with TimesPro

❖ Expert Session on VC Funding and Early-Stage Startups

❖ Interactive Session and Masterclass with Dr. R. D. Sharma

❖ ICT Academy Next Gen Edupreneur Award Win at BRIDGE '25

❖ Aptitude and Competitive Prep Seminar with Career Launcher

❖ Dandiya Utsav Cultural Celebration

❖ Gold Medal Victory at UDGHOSH-2025, IIT Kanpur

❖ Coden'Circuitz STEM Workshop for School Innovators

Message from the Editor

Welcome to the edition of Technopedia!

Innovation is continuing to shape the future. This edition shows the ideas and technologies that are making that happen. From trends, to exciting discoveries we look at how imagination is changing the world of technology.

Our goal is to make sure you are informed, inspired and prepared to take on chances. We hope this issue gives you ideas and helps you stay in front in the constantly changing world of technology.

Happy reading!

Activities in the Department

Swachhata Abhiyaan Drive at Echelon Campus

Date: October 1, 2025 | Venue: Echelon Institute of Technology



Echelon Institute of Technology successfully organized a **college-wide Swachhata Abhiyaan** with the objective of promoting the values of cleanliness, environmental sustainability, and social responsibility among students and faculty members. Inspired by the vision of the **Swachh Bharat Abhiyaan**, the campaign aimed to create awareness about the importance of maintaining a clean and healthy environment while encouraging every member of the Echelon community to contribute towards a greener and more sustainable campus. The initiative reflected the institute's commitment to fostering responsible citizenship alongside academic excellence.

The cleanliness drive witnessed enthusiastic participation from **first-year Engineering and Computer Application students**, who actively took part in cleaning various areas of the campus. The campaign covered classrooms, laboratories, corridors, playgrounds, common areas, and surrounding green spaces, where students worked together to collect litter, segregate waste, and ensure proper disposal of waste materials. The activity not only improved the campus environment but also encouraged students to understand the importance of teamwork and collective responsibility in maintaining public spaces.

Faculty members and academic coordinators actively participated in and supervised the campaign, motivating students to adopt cleanliness as a daily habit rather than a one-day activity. They emphasized that environmental responsibility begins with individual actions and that maintaining a clean campus reflects discipline, civic sense, and respect for shared spaces. Interactive discussions during the programme further highlighted the significance of waste management, environmental conservation, and sustainable living practices in everyday life.

The Swachhata Abhiyaan concluded with a renewed sense of commitment among participants towards preserving a clean, healthy, and eco-friendly environment. The campaign successfully instilled the values of environmental awareness, social responsibility, and community participation, reinforcing Echelon Institute of Technology's vision of holistic student development. Through such initiatives, the institute continues to encourage students to become responsible citizens who contribute positively to society while promoting sustainability and environmental stewardship.

Gold Medal Glory at IIT Kanpur (UDGHOSH-2025)



Echelon Institute of Technology added another glorious chapter to its legacy of excellence as its **College Volleyball Team** emerged victorious at **UDGHOSH-2025**, one of India's most prestigious inter-collegiate sports festivals hosted by **IIT Kanpur**. The national-level sporting event brought together highly skilled teams from renowned universities and engineering institutions across the country, offering a platform where talent, discipline, and determination were tested at the highest level. Competing against some of the strongest collegiate teams, Echelon's athletes showcased exceptional sportsmanship, resilience, and competitive spirit, ultimately securing the coveted **Gold Medal** and bringing immense pride to the institute.

The tournament witnessed intense competition, with every match demanding technical excellence, strategic planning, and unwavering mental strength. Throughout the championship, the Echelon volleyball team displayed remarkable coordination, agility, and confidence on the court. Their exceptional teamwork, accurate serves, powerful spikes, disciplined blocking, and quick defensive reflexes enabled them to outperform their opponents in a series of challenging encounters. The players remained focused under pressure, adapting their strategies effectively and demonstrating the perseverance required to succeed in a highly competitive sporting environment.

The final match proved to be the highlight of the tournament, where the team exhibited extraordinary composure and determination against a formidable opponent. Displaying outstanding tactical execution and seamless coordination, the players maintained their momentum throughout the match and delivered an exceptional performance that earned them the championship title. Their victory was the result of months of rigorous practice, disciplined training, and an unwavering commitment to excellence. The triumphant moment of lifting the championship trophy and receiving the Gold Medal marked a memorable milestone in the sporting history of Echelon Institute of Technology.

The achievement was celebrated with immense enthusiasm across the campus by students, faculty members, and staff, who applauded the team's dedication and remarkable accomplishment. The victory not only reflects the outstanding abilities of the players but also highlights the invaluable guidance of the coaching staff and the unwavering support provided by the institution in promoting sports and physical well-being. The success serves as an inspiration for aspiring athletes, motivating them to pursue excellence with determination, discipline, and perseverance.

At Echelon Institute of Technology, education extends beyond classrooms and laboratories to encompass the holistic development of every student. The institute strongly believes that participation in sports fosters leadership, teamwork, resilience, and the ability to perform under pressure—qualities that are equally essential for professional success. The Gold Medal triumph at **UDGHOSH-2025** stands as a proud testament to Echelon's commitment to nurturing well-rounded individuals who excel in academics, sports, and co-curricular activities. This remarkable achievement reinforces the institute's vision of empowering students to compete with confidence on national platforms while bringing honour and recognition to the Echelon community.

AgentCon Mini Hack: Build Your Own Pizza Ordering Agent

Date: October 9, 2025 | Venue: Auditorium, Administrative Block



Echelon Institute of Technology, through its **Division of Training & Placement** in collaboration with the **Department of Computer Science & Engineering** and **CSharp Corner**

USA, successfully organized the **AgentCon Mini Hack Developer Conference**. The conference, themed **"Build Your Own Pizza Ordering Agent,"** was designed to introduce students to the rapidly evolving world of Artificial Intelligence and autonomous software agents. The event provided an excellent platform for aspiring developers to gain hands-on experience with emerging AI technologies while understanding their real-world applications in modern software development.

The conference was graced by internationally acclaimed technology experts, including **Mr. Henk Boelman**, Principal AI Developer Advocate at Microsoft, and **Mr. Stephen Simon**, Program Manager at the Global AI Community. Drawing upon their extensive industry experience, the speakers delivered insightful technical sessions on Artificial Intelligence, cloud computing, autonomous AI agents, prompt engineering, and intelligent workflow automation. They shared valuable perspectives on the latest technological advancements, industry trends, and the growing role of AI-powered solutions in transforming businesses across various sectors.

A key highlight of the event was the interactive hackathon segment, where students actively participated in designing and developing their own AI-powered pizza ordering agents. Working under the guidance of industry experts, participants explored concepts such as intelligent decision-making, cloud integration, conversational AI, and autonomous task execution. The hands-on activities enabled students to apply theoretical knowledge in practical scenarios while enhancing their problem-solving abilities, coding skills, teamwork, and understanding of modern software architectures. The collaborative learning environment encouraged innovation and inspired participants to experiment with cutting-edge AI technologies.

The AgentCon Mini Hack concluded with enthusiastic participation and valuable interactions between students and industry professionals, providing participants with a deeper understanding of the future of Artificial Intelligence and intelligent application development. The conference successfully strengthened students' technical competencies while exposing them to globally relevant development practices and emerging career opportunities in AI and cloud technologies. Through such international collaborations and industry-driven initiatives, Echelon Institute of Technology continues to reinforce its commitment to delivering future-focused, innovation-led education and preparing students to excel in the rapidly evolving global technology landscape.

Signing of International MoU with CSharp Corner USA

Date: October 9, 2025 | Venue: Echelon Institute of Technology

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Echelon Institute of Technology achieved another significant milestone in its journey towards global academic excellence by signing an **International Memorandum of Understanding (MoU)** with **CSharp Corner USA** on **October 9, 2025**. The landmark collaboration reflects the institute's vision of strengthening international partnerships and creating meaningful opportunities for students and faculty to engage with the global technology ecosystem. The signing ceremony was attended by institutional leaders, distinguished representatives from

CSharp Corner USA, faculty members, and academic stakeholders, marking the beginning of a long-term strategic collaboration.

The International MoU establishes a strong framework for academic cooperation, knowledge exchange, and innovation-driven learning across emerging technology domains. Through this partnership, both institutions will work together to promote collaborative initiatives in **Artificial Intelligence (AI), Cloud Computing, Web3, Software Development, Emerging Digital Technologies,** and other advanced areas of computer science. The collaboration is designed to bridge the gap between academic education and global industry practices by encouraging research, innovation, and continuous skill development among students and faculty members.

One of the major highlights of this partnership is the wide range of international learning opportunities it offers to the Echelon community. Students will gain access to **global hackathons, international developer conferences, specialized technical workshops, expert mentorship sessions, collaborative projects, certification programmes, and internship opportunities** with exposure to international standards and best practices. Faculty members will also benefit through academic collaborations, knowledge-sharing initiatives, and opportunities to engage with global experts in research and technological innovation. These initiatives are expected to significantly enhance the institute's academic ecosystem while preparing students to compete successfully in the global technology landscape.

The signing of this International MoU represents a major step towards Echelon Institute of Technology's vision of becoming a globally connected institution that nurtures innovation, entrepreneurship, and industry-ready professionals. By establishing strategic partnerships with internationally recognized organizations such as **CSharp Corner USA**, the institute continues to expand its global footprint while providing students with world-class learning experiences and exposure to cutting-edge technologies. This collaboration further reinforces Echelon's commitment to academic excellence, internationalization, and the holistic development of future technology leaders capable of making meaningful contributions on a global scale.

Community Voluntary Blood Donation Camp

Date: November 6, 2025 | Venue: Students Activity Room, Library Block



Echelon Institute of Technology reaffirmed its commitment to social responsibility and community welfare by organizing a **Voluntary Blood Donation Camp** in collaboration with the **Rotary Club of Faridabad East** and the **Rotary Club of Faridabad Sanskar**. The initiative was undertaken with the objective of supporting regional blood banks, promoting awareness about the importance of voluntary blood donation, and encouraging students and staff to contribute towards a noble humanitarian cause. The camp reflected the institute's vision of nurturing socially responsible individuals who actively participate in initiatives that benefit society.

The blood donation camp witnessed enthusiastic participation from students, faculty members, and administrative staff, who came forward voluntarily to donate blood and support the life-saving mission. Prior to the donation process, all participants underwent detailed medical screenings and health assessments conducted by qualified healthcare professionals to ensure their eligibility and well-being. The entire donation process was carried out under the supervision of experienced medical teams, following stringent health, hygiene, and safety protocols to ensure a safe and comfortable experience for every donor.

Representatives and distinguished members of the Rotary Club actively coordinated the event and appreciated the overwhelming response received from the Echelon community. They emphasized the significance of regular voluntary blood donation in saving countless lives during medical emergencies, surgeries, and critical healthcare situations. Informative interactions conducted during the camp also helped participants understand the health benefits of blood donation while dispelling common myths and misconceptions associated with the process.

The successful organization of the Blood Donation Camp highlighted the spirit of compassion, service, and civic responsibility that forms an integral part of the culture at Echelon Institute of Technology. The initiative not only strengthened partnerships with reputed social organizations but also inspired students to become responsible citizens committed to the welfare of society. Through such community outreach programmes, the institute continues to promote humanitarian values, social awareness, and active public service, reinforcing its mission of developing compassionate professionals who contribute meaningfully to the nation and the community.

Best Hardware Award Win at Zinnovation 3.0

Date: November 6, 2025 | Venue: Chandigarh University, Mohali



Echelon Institute of Technology achieved yet another milestone in innovation and technical excellence as its student team, **"Innervision,"** earned national recognition at the **National-Level Hackathon – Zinnovation 3.0**, hosted by **Chandigarh University, Mohali**. The prestigious hackathon brought together more than **900 teams** from leading universities and engineering institutions across India, creating a highly competitive platform for young innovators to present technology-driven solutions to real-world challenges. Demonstrating exceptional creativity, technical expertise, and problem-solving abilities, Team Innervision successfully secured a place among the **Grand Finalists**, representing Echelon with distinction at the national level.

Competing under the **AgriTech & Rural Transformation** theme, the team developed an innovative and fully functional **hardware prototype** aimed at addressing practical challenges in the agricultural sector. The project focused on leveraging engineering and technology to provide efficient, sustainable, and impactful solutions that could contribute to the modernization of agricultural practices and improve rural development. The prototype reflected a perfect blend of technical knowledge, innovation, and practical implementation, showcasing the students' ability to translate academic concepts into real-world applications.

The award-winning team comprised **Yash Sharma, Shreeya Sampada Nayak, Granth Kumar, Muskan Singh, and Gauri Panchal**, whose collective dedication, technical competence, and collaborative efforts played a crucial role in the success of the project. Throughout the competition, the students worked tirelessly to design, develop, test, and refine their prototype while effectively presenting their concept before an eminent panel of academicians, industry experts, and innovation professionals. Their confidence, teamwork, and ability to articulate the practical relevance of their solution earned widespread appreciation from the judges.

The expert jury evaluated the projects on several critical parameters, including **innovation, technical design, functionality, practical applicability, scalability, sustainability, and overall societal impact**. Team Innervision's hardware prototype stood out for its originality, engineering excellence, and potential to solve real-world agricultural problems through technology. Impressed by the team's innovative approach, robust implementation, and practical utility, the judges honoured the team with the prestigious **"Best Hardware Award,"** recognizing it as one of the most outstanding hardware innovations presented during the national-level competition.

This remarkable accomplishment is a reflection of the strong culture of innovation, research, and experiential learning nurtured at Echelon Institute of Technology. The institute consistently encourages students to participate in national-level competitions, collaborate on multidisciplinary projects, and develop technology-driven solutions that address contemporary societal challenges. Achievements such as this not only bring pride and recognition to the institute but also reinforce its commitment to producing industry-ready engineers, innovators, and future entrepreneurs capable of making meaningful contributions to society through science and technology.

The success of **Team Innervision** serves as an inspiration for the entire Echelon community, motivating students to pursue excellence beyond the classroom and embrace innovation as a tool for positive change. Their achievement at **Zinnovation 3.0** stands as a proud testament to the institute's vision of fostering creativity, technical competence, and leadership while preparing students to compete confidently on national and international platforms.

Special Seminar on Profile Building for Placements

Date: November 10, 2025 | Venue: Seminar Hall, Administrative Block



Echelon Institute of Technology organized a comprehensive career guidance session titled **"Profile Building for Premium Placements and Higher Education"** with the objective of equipping students with the knowledge and strategies required to excel in campus placements and pursue higher education opportunities at prestigious institutions. The programme was organized in collaboration with **AAO SEEKHE** and the **Institution's Innovation Council (IIC)**, reflecting the institute's commitment to preparing students for successful academic and professional careers. The session served as a valuable platform for students to understand the importance of building a strong professional profile that aligns with the expectations of leading recruiters and universities.

The session was delivered by **Mr. Satish Anand**, **Founder and CEO of AAO SEEKHE**, an internationally acclaimed soft skills trainer and renowned **Josh Talks** speaker. Drawing upon more than two decades of experience in career development, leadership training, and professional mentoring, Mr. Anand shared valuable insights into the essential components of an impactful academic and professional profile. He emphasized the importance of continuous learning, skill development, certifications, internships, project work, and extracurricular

achievements in creating a well-rounded profile capable of attracting the attention of recruiters and admission committees alike.

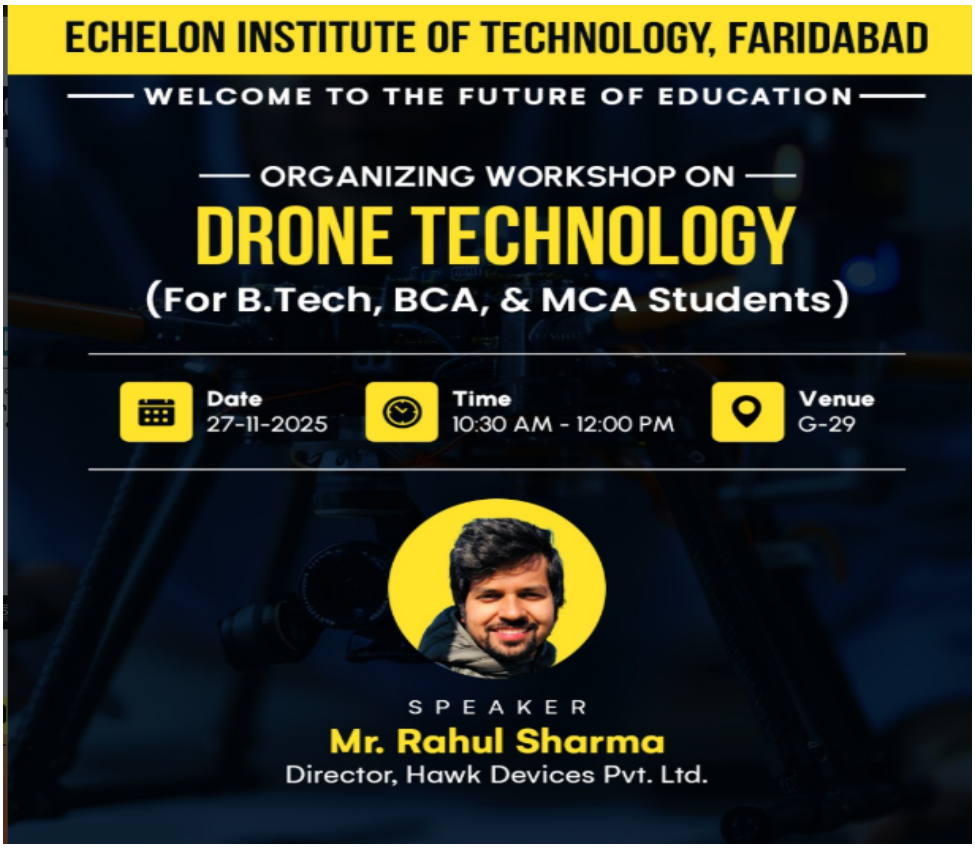
During the interactive session, Mr. Anand discussed a wide range of topics, including effective resume writing, personal branding, LinkedIn profile optimization, achievement presentation, interview communication, corporate etiquette, and industry expectations. He also highlighted the significance of developing strong interpersonal skills, leadership qualities, problem-solving abilities, and a growth mindset to remain competitive in today's dynamic job market. Through practical examples and real-life experiences, he guided students on how to present their strengths confidently and communicate their technical competencies effectively during interviews, group discussions, and higher education admission processes.

The session also provided valuable guidance on long-term career planning, helping students understand how strategic profile building from the early stages of their academic journey can significantly enhance future opportunities. Students actively participated in discussions, clarified their queries, and gained practical insights into setting career goals, selecting relevant certifications, and preparing for recruitment processes conducted by leading organizations. The interactive nature of the programme encouraged participants to reflect on their career aspirations and develop a structured roadmap for professional growth.

The guidance session proved to be highly informative and inspiring, empowering students with practical strategies to build competitive profiles for premium placements and higher education opportunities. Through such career-oriented initiatives and collaborations with distinguished industry experts, Echelon Institute of Technology continues to strengthen its focus on holistic student development, employability enhancement, and academic excellence. The programme reaffirmed the institute's commitment to nurturing confident, industry-ready, and future-focused professionals capable of achieving success in both national and global career landscapes.

Hands-on Technical Workshop on Drone Technology

Date: November 27, 2025 | **Venue:** Room G-29, Echelon Campus



Echelon Institute of Technology, through its **Division of Skill Development** in collaboration with the **Departments of Electronics & Communication Engineering (ECE)** and **Computer Science & Engineering (CSE)**, successfully organized an interactive workshop on **"Drone Technology"** for students of **B.Tech, BCA, and MCA**. The workshop was designed to introduce participants to the rapidly evolving field of unmanned aerial systems (UAS) and provide them with an understanding of the technologies driving innovation in modern aviation, robotics, and intelligent automation. The initiative reflected the institute's commitment to equipping students with industry-relevant knowledge in emerging technological domains.

The workshop was conducted by **Mr. Rahul Sharma**, Director of **Hawk Devices Pvt. Ltd.**, who shared his extensive industry expertise and practical experience in drone technology. During the session, he provided a comprehensive overview of drone architecture, flight mechanics, electronic control systems, autonomous navigation, communication protocols,

and sensor technologies. He also explained how advancements in Artificial Intelligence, GPS, computer vision, and embedded systems are transforming the capabilities of modern drones across a wide range of applications.

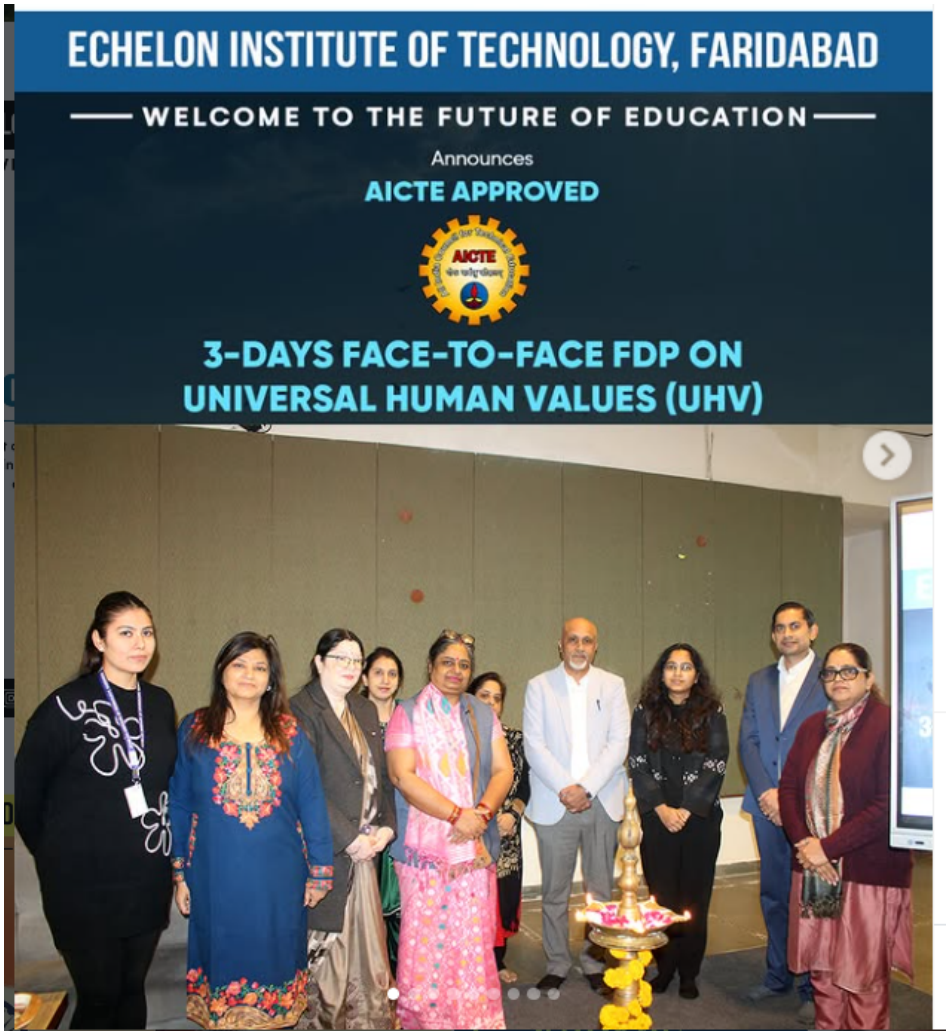
A major highlight of the workshop was the practical demonstration of drone components and operational systems. Students gained first-hand exposure to hardware assembly, sensor integration, flight controllers, propulsion systems, battery management, and software-based control mechanisms used in unmanned aerial vehicles. The speaker demonstrated the functioning of drones in real-time while explaining the principles behind autonomous flight, obstacle detection, and mission planning. Participants actively interacted with the expert, clarifying their queries and gaining valuable insights into the design, development, and deployment of drone technologies in real-world scenarios.

The session also explored the growing role of drones across diverse sectors, including **defence, agriculture, logistics, infrastructure inspection, disaster management, environmental monitoring, surveillance, healthcare, and precision farming**. Mr. Sharma highlighted the expanding career opportunities available in drone manufacturing, research and development, software engineering, aerial mapping, data analytics, and UAV operations. He encouraged students to acquire specialized technical skills and certifications to capitalize on the increasing demand for drone professionals in both the public and private sectors.

The workshop concluded with an engaging interaction between students and the resource person, leaving participants inspired to explore the exciting possibilities offered by unmanned aerial technologies. By organizing such industry-oriented programmes, Echelon Institute of Technology continues to bridge the gap between academic learning and technological innovation, empowering students with practical knowledge, technical competence, and industry exposure. The initiative further strengthened the institute's commitment to developing future-ready engineers and technology professionals capable of contributing to the rapidly advancing fields of robotics, automation, and aerospace technology.

AICTE-Approved 3-Day FDP on Universal Human Values

Date: December 4, 2025 | Venue: Echelon Institute of Technology



Echelon Institute of Technology successfully organized an **AICTE-approved Three-Day Face-to-Face Faculty Development Programme (FDP)** on **"Universal Human Values (UHV)"** with the objective of promoting value-based education and strengthening the role of educators in nurturing ethically responsible professionals. The programme brought together faculty members and academic leaders from various disciplines to explore the significance of integrating human values into technical education. The initiative aligned with the vision of the **All India Council for Technical Education (AICTE)** and the **National Education Policy (NEP) 2020**, which emphasize holistic education and the development of socially responsible citizens.

Over the course of three days, the FDP provided participants with a structured and engaging learning experience focused on self-awareness, ethical decision-making, personal well-being, professional integrity, and social responsibility. Through a series of expert-led sessions, faculty members explored the principles of Universal Human Values and their relevance in creating a positive learning environment. The programme emphasized the importance of fostering empathy, mutual respect, harmony, and responsible conduct within educational institutions and society at large.

The workshop adopted an interactive and experiential approach, featuring group discussions, reflective exercises, guided meditation sessions, case studies, and collaborative activities that encouraged participants to engage in meaningful dialogue and self-reflection. Resource persons demonstrated practical strategies for integrating human values into classroom teaching, mentoring practices, and engineering curricula, enabling educators to create learning experiences that extend beyond technical knowledge. The sessions inspired faculty members to adopt learner-centric approaches that promote both academic excellence and character development.

Participants also discussed the role of educators in addressing contemporary challenges faced by students, including stress management, ethical dilemmas, emotional well-being, and responsible leadership. The programme highlighted how value-based education can contribute to developing professionals who possess not only technical competence but also compassion, integrity, and a strong sense of social responsibility. Faculty members exchanged ideas and best practices for creating inclusive, supportive, and ethically driven academic environments that encourage lifelong learning and responsible citizenship.

The Faculty Development Programme concluded with participants reaffirming their commitment to incorporating Universal Human Values into their teaching methodologies and mentoring practices. The initiative reflected Echelon Institute of Technology's unwavering commitment to academic excellence, ethical education, and holistic faculty development. By organizing such AICTE-approved programmes, the institute continues to cultivate an educational ecosystem where technical knowledge is complemented by moral values, preparing

students to become competent professionals, responsible leaders, and compassionate contributors to society.

Celebration of National Mathematics Day
Date: December 23, 2025 | Venue: Echelon Institute Campus



The **Indian Knowledge Systems (IKS) Cell**, under the aegis of the **Internal Quality Assurance Cell (IQAC)**, successfully organized a commemorative programme to celebrate **National Mathematics Day**, paying tribute to the legendary Indian mathematician **Srinivasa Ramanujan** on the occasion of his birth anniversary. The event aimed to inspire students to appreciate the significance of mathematics in scientific innovation while highlighting India's rich mathematical heritage and its enduring contributions to the global academic community.

The celebration reflected Echelon Institute of Technology's commitment to promoting intellectual curiosity, analytical thinking, and value-based education through the integration of traditional knowledge with modern scientific learning.

The programme commenced with the ceremonial lighting of the lamp, symbolizing the pursuit of knowledge and wisdom, followed by a welcome address emphasizing the importance of National Mathematics Day. Faculty members and dignitaries highlighted the remarkable life journey of Srinivasa Ramanujan, whose extraordinary mathematical discoveries continue to influence research across diverse fields of science, engineering, computer science, and technology. An informative presentation showcased his groundbreaking work in number theory, infinite series, continued fractions, partitions, and mathematical analysis, while also illustrating how his pioneering ideas continue to inspire researchers and mathematicians worldwide.

The event also featured engaging talks on the rich legacy of **Indian Knowledge Systems** and the historical contributions of ancient Indian scholars to the development of mathematics. Speakers explained the significance of concepts such as the decimal number system, the invention of zero, algebraic methods, geometric principles, and their continued relevance in modern computing, data science, cryptography, and engineering applications. Participants gained valuable insights into how India's mathematical heritage has contributed to technological advancements and continues to influence contemporary scientific research across multiple disciplines.

One of the key highlights of the celebration was an interactive session on **Vedic Mathematics**, where students were introduced to innovative mental calculation techniques and shortcut methods for solving complex mathematical problems with speed and accuracy. The resource persons demonstrated practical approaches to arithmetic calculations, encouraging students to develop logical reasoning, numerical aptitude, and problem-solving skills. The highly engaging session enabled participants to experience the effectiveness of traditional mathematical techniques in enhancing computational efficiency and analytical thinking.

To further encourage active participation and healthy academic competition, the programme concluded with an **Inter-Departmental Mathematics Quiz**, where students from various departments enthusiastically competed by solving questions based on mathematical concepts, logical reasoning, numerical aptitude, and the life and contributions of Srinivasa Ramanujan. The quiz fostered teamwork, critical thinking, and intellectual engagement while creating an atmosphere of learning and collaboration among participants. Outstanding performers were recognized and appreciated for their knowledge, enthusiasm, and analytical abilities.

The National Mathematics Day celebration proved to be an enriching academic event that successfully combined historical appreciation with contemporary learning. By organizing such intellectually stimulating programmes, Echelon Institute of Technology continues to encourage students to cultivate scientific temper, mathematical excellence, and innovative thinking while preserving and promoting India's rich intellectual heritage. The initiative reaffirmed the institute's commitment to holistic education by inspiring learners to value both traditional wisdom and modern technological advancements, thereby preparing them to become competent professionals and lifelong learners.

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. Sankeeta Jha
(Assistant Professor)

Publisher

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Student Speaks

"Every great journey begins with a single step—but at Echelon, it begins with a vision.
Standing at the crossroads of the 2026 academic year, I have witnessed firsthand how this institution transforms ambition into action. It is not just the state-of-the-art labs or the cutting-edge curriculum that defines us; it is the relentless pursuit of 'what comes next.' From attending the AI Impact Summit, where we saw the algorithms that will run our future, to preparing for the HackIndia 2026 hackathon, we are not just learning code—we are learning to build the future.
But what truly sets Echelon apart is its soul. When I listened to Squadron Leader Nupur Jain speak at the Principal Synergy Summit, I realized that success is not just about landing a high-paying job; it is about the discipline to serve a greater purpose.

Inspiration is everywhere here. It is in the cheering crowd at the basketball court where we won the championship at Rawal Institute. It is in the late-night debugging sessions before the Jamia Hamdard Hackathon. It is in the mentorship of our professors, who don't just teach us theory but guide us through the complex maze of cloud computing, AWS, and sustainable energy research.
Echelon has taught me that the only limit to our potential is the horizon of our imagination. As we gear up for the Mega Job Fair and the grand Echiesta 2K26 with Mohit Chauhan, I am reminded that we are not just students of engineering; we are architects of the future. Here, every dream is a blueprint, and every blueprint is waiting to become reality."

Ishant Aggarwal

Highlights:

- **Faculty Development Program**
- **Expert Talks by IQAC**
- **Alumni Talk Series 2**
- **AWS Cloud Technology Seminar**
- **3D Printing Workshop**
- **ATAL FDP on Sustainable Energy**
- **HackIndia 2026**
- **Mega Job Fair 2026**
- **Echiesta 2K26**
- **Research Excellence**
- **Hackathon Victory**
- **Principal Synergy Summit 2K26**
- **Champions at Rawal Institute**
- **India AI Impact Summit**

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.

From artificial intelligence and robotics to sustainable engineering and next-generation digital solutions, we explore the trends that are redefining industries and reshaping everyday life. Through expert insights, inspiring success stories, and practical perspectives, Technopedia connects emerging ideas with real-world applications. Whether you're a student, professional, entrepreneur, or technology enthusiast, each edition is designed to spark curiosity, encourage innovation, and foster meaningful conversations. Join us as we uncover transformative breakthroughs, celebrate visionary thinkers, and embrace the limitless possibilities that arise when creativity and technology come together to shape a smarter, more connected future

Activities in the Department

Faculty Development Program: Classroom Communication for Teaching & Mentoring

Echelon Institute of Technology began the new year with a transformative Faculty Development Program (FDP) on "Classroom Communication for Teaching & Mentoring," held from January 5th to 7th, 2026. This three-day intensive program was designed to elevate the pedagogical skills of our faculty members, equipping them with modern communication strategies to make learning more engaging, interactive, and impactful. Expert facilitators conducted dynamic sessions covering active listening, non-verbal communication, digital engagement tools, and effective mentorship techniques. The program emphasized that teaching transcends mere information transfer—it is about inspiring curiosity and fostering a supportive learning environment. By the end of the FDP, faculty members were equipped with practical tools to break down classroom barriers and build stronger, more meaningful connections with their students.



Expert Talks by IQAC: Navigating Research & Academic Excellence

On January 10th, 2026, the **Internal Quality Assurance Cell (IQAC)** of Echelon Institute of Technology organized a highly enriching session of **Expert Talks** at the Seminar Hall. The event featured two distinguished academicians who guided faculty and research scholars on critical aspects of academic excellence. **Prof. Arvind Upadhyaya** from London Metropolitan University delivered an insightful presentation on "Navigating Publications in International Journals," offering a roadmap for publishing in high-impact journals, covering writing styles, peer-review processes, and indexing databases. Following this, **Prof. Shantanu Ganguly** from Ashoka University discussed "Research Grant Management for Academic Excellence," sharing proven strategies for identifying funding opportunities, crafting winning proposals, and managing research funds ethically and efficiently. This session significantly strengthened the research capabilities of the Echelon community, fostering a culture of high-quality publication and funded innovation.



Alumni Talk Series 2: Bridging Generations

Continuing its commitment to nurturing strong alumni relations, Echelon Institute of Technology hosted the **Alumni Talk Series 2** on February 14th, 2026. This event served as an invaluable bridge between the past and present, bringing successful alumni back to campus to share their professional journeys and life experiences with current students. The session, held in the Seminar Hall, provided an interactive platform where students engaged in candid discussions about career choices, skill development, and the transition from college to corporate life. Alumni speakers emphasized the critical importance of adaptability, coding proficiency, and soft skills in today's dynamic job market. The event concluded with a networking session, allowing students to forge mentorship bonds with their senior counterparts, creating a supportive ecosystem that will guide them throughout their careers.



AWS Cloud Technology Seminar: Opportunities & Career Pathways

The **Division of Skill Development** at Echelon Institute of Technology organized a seminar on **"AWS Cloud Technology Opportunities & Career Pathways"** on February 16th, 2026. This session was specifically curated for final-year students from B.Tech CSE, ECE, and BCA (6th semester), who are on the brink of entering the professional world. The seminar was led by **Mr. Manish**, an AWS Certified SysOps Administrator-Associate, who provided a comprehensive overview of the cloud computing landscape. Students gained valuable insights into the dominance of AWS in the global market and the vast array of career opportunities available in cloud architecture, DevOps, and cloud security. The session also covered practical AWS services like EC2, S3, and Lambda, along with guidance on preparing for AWS certification exams, empowering students to secure high-paying roles and significantly enhancing their placement prospects.



3D Printing Workshop: From Design to Reality

On February 16th, 2026, the IEEE Student Branch of EIT organized an engaging, hands-on workshop titled "From Design to Reality: 3D Printing Workshop." Tailored specifically for B.Tech 4th semester and BCA 4th semester students, this workshop aimed to demystify the fascinating world of additive manufacturing. Students were guided through the entire lifecycle of a 3D project, starting from conceptual design and CAD modeling to the final physical printing process. The session covered the fundamentals of slicing software, material selection (such as PLA and ABS), and troubleshooting common printing errors. Under the expert mentorship of IEEE Student Coordinators Dev (23cseds009) and Aalekh (23cseds001), participants successfully printed their own custom designs, sparking creativity and providing a tangible, practical application of engineering principles learned in their classrooms.



ATAL FDP on Sustainable Energy Technologies for Climate Mitigation

The **Department of Electronics & Communication Engineering** organized a comprehensive **6-Day Online AICTE Sponsored ATAL Faculty Development Program (FDP)** on **"Sustainable Energy Technologies for Climate Mitigation"** from February 9th to 14th, 2026. This program underscored Echelon Institute's commitment to addressing global challenges through interdisciplinary education. Faculty members from various departments, including CSE, came together to explore how cutting-edge technology can be leveraged to combat climate change. The curriculum covered renewable energy systems, smart grid integration, energy-efficient computing, and the application of Artificial Intelligence in environmental monitoring and sustainability. The program was a resounding success, featuring renowned experts from both academia and industry, and provided participants with e-certificates upon completion, highlighting the institute's dedication to cross-disciplinary learning.



HackIndia 2026: India's Biggest Web3 & AI Hackathon

Echelon Institute of Technology is proud to host **HackIndia 2026**, touted as India's Biggest Web3 & AI Hackathon, scheduled for March 13th and 14th, 2026. In collaboration with esteemed industry partners like **C# Corner** and **Sharp Economy**, this hackathon promises to be a melting pot of innovation, drawing top-tier talent from across the nation. Participants will converge at EIT to solve real-world problems using the latest in Web3 technologies, blockchain architecture, and Artificial Intelligence. With a staggering **Prize Pool of ₹1,00,000 (Cash + Sharp Tokens)**, the competition is set to ignite fierce yet friendly rivalry. This initiative not only places Echelon firmly on the map as a hub for tech innovation but also provides a remarkable launchpad for student developers and entrepreneurs to showcase their skills on a prestigious national stage.



Mega Job Fair 2026: A Gateway to Corporate Success

Echelon Institute of Technology proudly announces the **Mega Job Fair 2026**, scheduled for March 14th, 2026. This landmark initiative is designed to connect our budding talent directly with the corporate world. The job fair is open to students passing out in 2026, as well as alumni from the 2024 and 2025 batches, across streams including BCA, BBA, MBA, MCA, ITI, and Diploma. The event will feature a stellar lineup of top recruiters, including industry giants such as **Paytm, Axis Bank, Kotak Mahindra Bank, IBM SkillsBuild, Justdial, PropShop, Zielhoch, and EduBridge**, among many others. The fair will encompass aptitude tests, technical interviews, and HR rounds, all conducted on campus. This drive is a testament to Echelon's unwavering commitment to placement readiness, ensuring every student steps confidently into a rewarding professional career.



Echiesta 2K26: A Grand Techno-Cultural Spectacle

The excitement is reaching a fever pitch as Echelon Institute of Technology prepares for its flagship annual event, Echiesta 2K26, scheduled for March 28th, 2026. This year, the festival is set to reach unprecedented heights with a spectacular cultural lineup. The highlight of the event is a Live Concert by the renowned Indian Playback Singer, Mohit Chauhan, known for his melodious voice and timeless hits. Promising to bring the house down, his performance will make Echiesta 2K26 the most memorable festival in the institute's history. Beyond the concert, Echiesta continues to be the ultimate platform where technology meets culture. The festival will feature intense coding battles, robotics exhibitions, dance competitions, literary events, and creative showcases, ensuring a perfect blend of intellect, innovation, and entertainment for every student.



Research Excellence: Stefanko Best Paper Award

Echelon Institute of Technology is proud to announce a monumental achievement in academic research. **Mr. Abhishek Kumar Singh**, Assistant Professor in the Department of Civil Engineering, along with his colleagues, has been honored with the prestigious **Stefanko Best Paper Award** from the **Coal & Energy Division of SME**. Their groundbreaking research paper, titled *"Assessment of Impact of Dirt Bands on Coal Pillar Strength at Different Depth of Cover,"* represents exceptional scholarly work in the field of mining engineering. This recognition, celebrated on a national and international platform, brings immense pride to the Echelon community. It underscores the institute's commitment to fostering a robust research culture and encouraging faculty to contribute meaningful, impactful solutions to real-world engineering challenges.



Hackathon Victory: Triumph at Jamia Hamdard University

Adding to the growing list of accolades, a talented team of **BCA students from Echelon Institute of Technology** secured the **1st Position** in a highly competitive hackathon hosted by **Jamia Hamdard University**. The team, recognized as "Rooh Afza - NEROZ 26," demonstrated exceptional technical acumen, creativity, and problem-solving skills, defeating several prestigious institutions to take home the coveted title and trophy. This victory is a testament to the rigorous training, mentorship, and hands-on learning environment provided at Echelon. It serves as a powerful inspiration for all students, encouraging them to actively participate in technical competitions, push their creative boundaries, and represent the institute with excellence on national platforms.



Principal Synergy Summit 2K26: Leadership & Inspiration

The **Principal Synergy Summit 2K26** was a grand confluence of leadership, vision, and inspiration at Echelon Institute of Technology. The summit aimed to foster a collaborative environment where educational leaders, distinguished alumni, and industry experts could deliberate on the future of technical education in India. The event was elevated by the inspiring presence of our esteemed alumni, **Squadron Leader Nupur Jain (Retd.)**, from the 2007-2011 batch. Her remarkable journey from an ECE student at Echelon to a proud officer in the Indian Air Force served as a powerful testament to the transformative education and values imparted at this institute. The Summit reinforced Echelon's vision of creating technically proficient, ethically grounded, and resilient leaders ready to serve both the nation and the global industry.



Champions at Rawal Institute: A Victory of Spirit

In an outstanding display of sportsmanship, teamwork, and determination, the **Echelon Institute Basketball Team** clinched the **First Prize** at the prestigious inter-college tournament hosted by Rawal Institute. This hard-fought victory highlights the institute's unwavering focus on holistic development, proving that our students excel not only in the classroom and coding labs but also on the athletic field. The team's relentless energy, strategic gameplay, and camaraderie throughout the tournament were truly commendable. This championship win serves as a proud moment for the entire Echelon community, reinforcing the belief that discipline, practice, and passion are the cornerstones of success in every arena of life.



India AI Impact Summit: Immersion into the Future of Technology

Echelon students and faculty proudly marked their presence at the prestigious **India AI Impact Summit**, held at the Plenary Hall. This gathering of the brightest minds in Artificial Intelligence provided our delegation with an immersive and eye-opening experience into the next frontier of technology. The students had the unique opportunity to interact directly with industry leaders, renowned researchers, and policymakers who are driving the AI revolution across sectors such as healthcare, agriculture, smart cities, and finance. By attending deep-dive sessions on Generative AI, machine learning architectures, and ethical AI frameworks, our participants returned with renewed zeal and cutting-edge knowledge. This exposure to the national AI ecosystem reaffirms Echelon's unwavering commitment to staying at the absolute forefront of technological advancement and preparing students for the future of work.



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. Sankeeta Jha
(Assistant Professor, CSE Department)

Faculty Members:

Ms. Sankeeta
(Assistant Professor)

Publisher

Echelon Institute of Technology, Faridabad.

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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

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.

VISION STATEMENT OF THE DEPARTMENT

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

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 joined this new semester, the focus on holistic development at Echelon has been incredible. The 'Climate Satyagraha' workshop taught me that as a computer science student, I must think beyond code and think about the planet. The mock interviews were a game-changer for my confidence, and celebrating Earth Day with a tree plantation reminded me of our social responsibility. Echelon isn't just teaching us to be engineers; it's teaching us to be conscientious global citizen”

Ishant Aggarwal

Tech News & Innovations

Project Stargate: The AI Data Center Revolution

In early 2025, tech giants announced massive investments in "Project Stargate," an initiative aimed at building next-generation AI data centers. This quantum leap in computational infrastructure is set to redefine cloud computing and machine learning capabilities.

Advances in Green AI Hardware

As the world moves toward sustainable tech, breakthroughs in neuromorphic computing chips are being unveiled. These chips mimic the human brain's neural structure, requiring significantly less energy than traditional GPUs, paving the way for eco-friendly AI processing that aligns with global climate goals.

Highlights:

- **International Yoga Day**
- **Aarohan 2026**
- **Climate Satyagraha Workshop**
- **Earth Day Celebrations**
- **Entrepreneurship Orientation Programme**
- **Student Achievements**
- **Mock Interviews**

Message from the Editor

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Activities in the Department

Aarohan 2026: Award Ceremony & Cultural Night

Echelon Institute of Technology celebrated the spirit of excellence and achievement with the grand success of **Aarohan 2026**, a spectacular two-day award ceremony held on the 22nd and 23rd of May. Themed *"Towards New Horizons"*, the event was designed to honor the stellar academic performance, technical expertise, and extracurricular dedication demonstrated by the students throughout the academic year. The ceremony was marked by a traditional lamp-lighting ritual performed by the esteemed faculty and management, symbolizing the illumination of knowledge and the beginning of a journey toward greater successes.

The event featured a series of cultural performances, including dance, music, and theatrical presentations, adding a vibrant and celebratory atmosphere to the evening. Students from various departments were felicitated with certificates, trophies, and cash prizes for their outstanding contributions in coding competitions, sports events, and cultural fests. The ceremony also recognized faculty members for their invaluable guidance. Aarohan 2026 was not just an awards night—it was an evening of inspiration, gratitude, and motivation, reminding every student that hard work, passion, and perseverance always lead to recognition.



Climate Satyagraha Workshop: A Call for Finite Living

In a landmark initiative for sustainability and environmental consciousness, Echelon Institute of Technology, under the aegis of the Climate Action Cell and IQAC, organized an impactful Climate Satyagraha Workshop on May 12th. The workshop was graced by the presence of the esteemed Prof. Chetan Singh Solanki, Founder of the Energy Swaraj Foundation and a renowned innovator from IIT Bombay, widely known as the "Solar Man of India."

Prof. Solanki delivered a powerful session titled *"A Polite Insistence on Finite Living on a Finite Earth"*, addressing the urgent need for conscious consumption and sustainable innovation. He challenged students to rethink their lifestyle choices and technological designs, urging them to build solutions that do not exploit natural resources. The workshop included interactive sessions where students took the "Finite Living Pledge,".



Earth Day Celebration: Tree Plantation for a Greener Future

On April 25th, Echelon Institute of Technology celebrated **Earth Day** with a profound sense of purpose and commitment to environmental stewardship. The institute organized a comprehensive **Tree Plantation Drive** across the campus, bringing together faculty members, administrative staff, and enthusiastic students in a unified effort to green the environment. The event was themed *"Celebrating Earth Day with Purpose & Action!"*, emphasizing that sustainability requires tangible, real-world efforts rather than just theoretical discussions.

Participants planted a diverse range of indigenous saplings around the campus premises, contributing to the improvement of local biodiversity and air quality. Faculty members guided students on the importance of maintaining greenery and nurturing the saplings for long-term survival. The drive was not only a physical activity but also an educational experience, teaching students about their responsibility toward the planet. Through this initiative, Echelon reinforced its vision of creating a campus that is not just technologically advanced but also environmentally responsible and harmonious with nature.



Outstanding Achievement at Lingayas Tech Fest

Echelon Institute of Technology experienced a moment of immense pride and accomplishment when one of its brilliant students, Priyanshu Ojha, secured the 2nd Prize at the highly competitive Lingayas Tech Fest. Held to showcase the technical acumen of engineering students across the region, the fest featured intense rounds of coding challenges, technical quizzing, and innovation presentations. Priyanshu's project stood out among dozens of entries, impressing the judges with its creativity, execution, and practical viability.

This victory is a testament to the rigorous training and mentorship provided by the CSE department at Echelon. Priyanshu's success has set a high benchmark for his peers, proving that with consistent hard work and innovative thinking, Echelon students can compete successfully at national-level platforms. The institute proudly congratulated him during a special assembly, where he shared his journey, motivating other students to participate in external technical competitions and push their limits.



Brilliant Victory at Delhi University Robotics Challenge

Marking another golden feather in Echelon's cap, a dedicated team of B.Tech students—**Dev Prakash, Aalekh Sharma, Suraj, and Akash**—participated in a highly technical robotic event at **Delhi University** and brought home the **Second Position**. The competition was based on the **Line Follower Race**, a robotics challenge that tests participants' mastery over embedded systems, sensor calibration, and algorithmic precision.
The students spent weeks designing, coding, and testing their robotic models under the guidance of faculty mentors. Their robot successfully navigated a complex, uneven track with unmatched speed and accuracy, outperforming several teams from prestigious universities. This technical win highlighted the hands-on engineering skills nurtured at Echelon, proving that our students are not just theoretical learners but skilled innovators capable of building real-world hardware solutions. The team was felicitated on campus, and the victory served as a major morale booster for the robotics club and aspiring engineers.



Mock Interview Sessions: Rethinking Placement Performance

Understanding the importance of professional readiness, the Training and Placement Cell at Echelon Institute of Technology organized a specialized **Mock Interview** program under the compelling theme: *"Intelligent, Qualified, Capable. Yet Not Selected: Rethinking Interview Performance."* The session was designed for students of all branches who are currently preparing for campus placements and competitive recruitment processes.

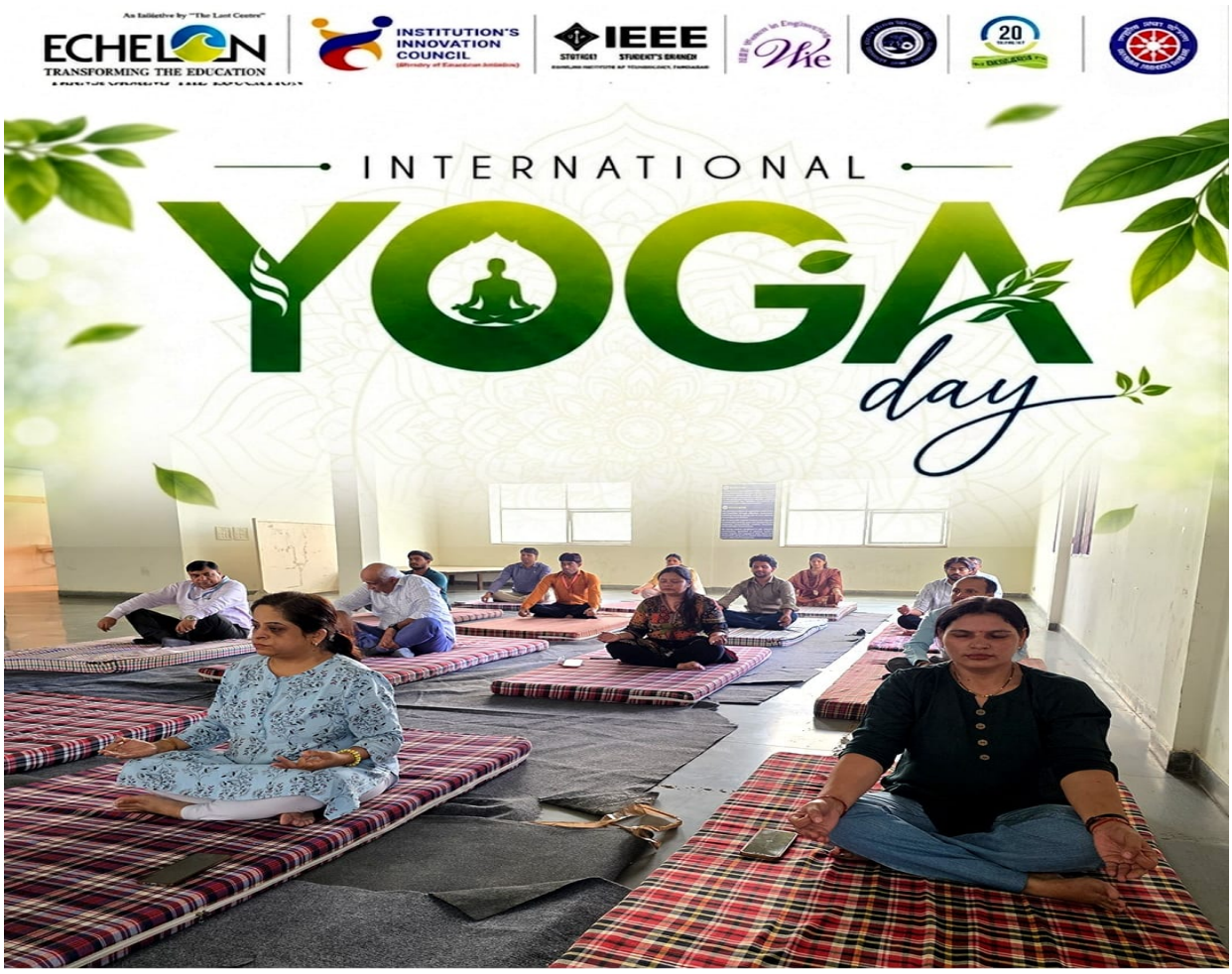
Industry HR professionals and experienced senior faculty members conducted rigorous one-on-one and panel mock interviews. The sessions went beyond standard question-answer formats; they focused on body language, articulating technical knowledge clearly, handling stressful questions, and projecting confidence. After each simulation, students received personalized constructive feedback. The experts explained why sometimes technically skilled candidates are rejected due to poor presentation skills or lack of corporate etiquette. This initiative was a crucial step in bridging the gap between academic competence and corporate employability, leaving students feeling significantly more confident and prepared for their upcoming placement drives.



International Yoga Day Celebration: Wellness and Harmony

In an effort to promote holistic education, Echelon Institute of Technology celebrated **International Yoga Day** with great enthusiasm. A special wellness session was organized on the campus, bringing together students, faculty, and staff to practice various yoga asanas, breathing exercises, and meditation techniques. The event was conducted by certified yoga instructors who highlighted the profound benefits of yoga for relieving academic stress, improving concentration, and enhancing overall physical and mental health.

The celebration encouraged students to adopt yoga as a daily habit, emphasizing that a healthy body and sharp mind are the foundation of a successful academic and professional life. The serene atmosphere of the session allowed participants to find inner peace and rejuvenation. Through this initiative, the institute reinforced its commitment to the holistic development of its students, proving that education at Echelon goes beyond coding and algorithms—it nurtures the soul and the body as well.



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