

TECHNOPEDIA

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

ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD



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VISION AND MISSION OF THE INSTITUTE

VISION

"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 very first day at Echelon, I could sense an environment that fostered ambition and innovation. The modern infrastructure, equipped with advanced classrooms and cutting-edge technology, made learning an immersive and engaging experience. The library, a treasure trove of knowledge, provided the perfect space for deep exploration and intellectual growth. What made Echelon truly special was its dynamic and supportive community. The professors weren't just educators; they were mentors who guided, inspired, and encouraged us at every step. The campus was alive with opportunities—stimulating seminars, exciting competitions, and a variety of student clubs that helped shape both professional skills and lifelong friendships. Echelon wasn't just a college; it was the foundation of my aspirations. A place where learning met experience, and where every moment contributed to shaping my future – Gauri Panchal (22-CSE-039)

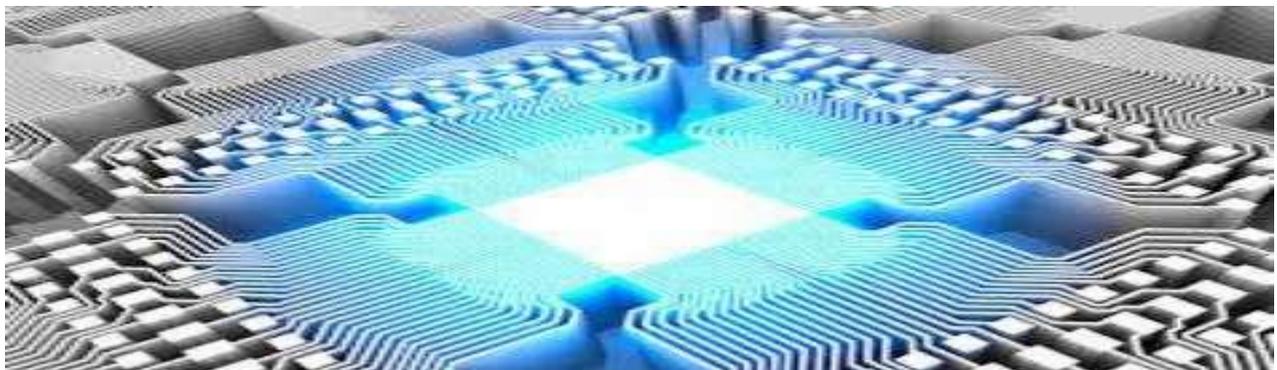
Latest Trends in Computer Science

1. Advancements in Artificial Intelligence (AI)



AI continued to be a focal point, with significant progress in large language models and generative AI applications. These advancements have enhanced capabilities in natural language processing, image generation, and predictive analytics, leading to more sophisticated and human-like interactions with technology.

2. Progress in Quantum Computing



Quantum computing saw practical use cases emerge during this period. Researchers developed new algorithms and hardware improvements, bringing quantum technologies closer to real-world applications. These developments hold promise for solving complex problems in fields like cryptography, material science, and optimization.

Highlights:

- ❖ Message from the Editor
- ❖ Seminar on AWS Cloud
- ❖ UI/UX Design Workshop
- ❖ HACK SPLASH 1.0
- ❖ Linked in Workshop
- ❖ Online workshop on Business Model Canvas(BMC)
- ❖ Workshop on intellectual property rights(IPR) and IP management for startups
- ❖ Alumni Meet
- ❖ INTERNATIONAL YOGA DAY
- ❖ JAVA Training

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.

“Education is the key to unlocking your full potential. It's the key to becoming the best version of yourself. So don't be afraid to learn and grow”.

Activities in the Department

Seminar of AWS Cloud

The Department of Computer Science Engineering (CSE) and the Department of Computer Applications (DCA) at Echelon Institute of Technology recently organized a highly informative Power Seminar on AWS Cloud. The session was led by Mr. Aditya Jha, a renowned Technical Trainer from ICT Academy. The seminar was designed to introduce students to the world of cloud computing, with a particular focus on AWS (Amazon Web Services), a leading cloud platform widely adopted by companies globally.

Throughout the seminar, students gained a deeper understanding of cloud computing fundamentals, including the importance of scalability, security, and flexibility that AWS offers. The session explored key AWS services such as Amazon EC2, S3, Lambda, and RDS, which are crucial for building robust cloud-based applications. Mr. Jha emphasized real-world applications of these services, helping students connect theoretical concepts with industry practices.



The banner features logos for Echelon Institute of Technology, ICT Academy, and the Institution's Innovation Council. It includes a photo of Mr. Aditya Jha and lists the venue, faculty coordinators, and date.

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

**Power Seminar
on
AWS Cloud
Under CSE department**

Keynote Speaker
Mr. Aditya Jha
Technical Trainer,
Traning and Development,
ICT Academy

Venue: Seminar Hall Admin Block
B.Tech CSE
Faculty Coordinators
Ms. Stuti Saxena
Mr. Mohit Kapil

28th March 2024, (01:30 PM Onwards)

The event also offered an opportunity for students to interact with peers, share knowledge, and discuss emerging trends in cloud technology. Faculty members facilitated discussions, encouraging students to ask questions and actively engage in the seminar.

This hands-on experience was invaluable for students aiming to develop skills in cloud computing, an essential tool in the tech industry. By equipping students with AWS knowledge, the seminar positioned them to gain a competitive edge in the evolving job market, where cloud computing expertise is in high demand. The event was a resounding success and reflected Echelon's commitment to bridging the gap between academic learning and industry expectations.



UI/UX Design Workshop

On April 3rd, Echelon Institute of Technology successfully organized a comprehensive workshop on UI/UX design in room S38 at 2:30 PM. This workshop aimed to introduce students to the fundamental principles of user interface (UI) and user experience (UX) design, essential in today's tech-driven world. The event covered a wide range of topics, including wireframing, prototyping, and the user-centered design process.

Led by experienced professionals, the workshop provided students with hands-on experience in designing interfaces that are both visually appealing and functional. Participants were introduced to various industry-standard design tools, such as Figma and Adobe XD, and were guided through the process of creating interactive prototypes that mimic real-world applications. The focus was on understanding the users' needs, and how to create intuitive designs that enhance user experience.



In addition to technical skills, the workshop also emphasized the importance of empathy in design. Students were encouraged to think from the user's perspective, aiming to create solutions that not only solve problems but also offer seamless interaction. Real-world case studies were discussed, helping students understand the impact of good UI/UX on the success of digital products.

The workshop was well-received, with enthusiastic participation from students across various



departments. It was a valuable opportunity for aspiring designers and developers to gain practical skills and insights into the growing field of UI/UX design, preparing them for future roles in technology and design industries. The event exemplified Echelon Institute's commitment to fostering industry-relevant learning experiences.

HACK SPLASH

We are thrilled to announce the successful completion of Echelon Institute's first-ever HACK SPLASH hackathon. The event brought together brilliant minds from across disciplines, fostering innovation, creativity, and collaboration. Over 8 hours of coding, participants worked tirelessly to develop cutting-edge solutions, showcasing impressive skills in technology and problem-solving. The atmosphere buzzed with excitement as attendees indulged in the joy of coding, fueled by a constant flow of refreshments to keep energy levels high.



[LinkedIn Workshop](#)

On April 5th, Echelon Institute of Technology hosted an informative LinkedIn workshop via Microsoft Teams, led by industry experts Sarika Purohit and Riddhima Garg. This workshop aimed to help students enhance their professional profiles and leverage LinkedIn as a powerful networking tool.

The session began with an overview of the significance of LinkedIn in today's job market. Sarika and Riddhima emphasized the importance of a well-structured profile, highlighting key elements such as profile pictures, headlines, and summaries that make a lasting impression on potential employers. They shared valuable tips on how to showcase skills, accomplishments, and experiences effectively, making each profile stand out in a competitive landscape.



Participants were guided through practical exercises, allowing them to optimize their profiles in real time. The workshop also covered best practices for networking, such as how to connect with professionals, engage with industry content, and participate in relevant groups. The speakers shared strategies to build meaningful connections and leverage LinkedIn to uncover job opportunities.

The interactive format encouraged students to ask questions and share their experiences, fostering a collaborative learning environment. Sarika and Riddhima's insights on personal branding and professional growth resonated with the attendees, motivating them to take proactive steps in their career journeys.

Overall, the LinkedIn workshop was a resounding success, equipping students with essential tools and strategies to navigate their professional paths effectively. The event exemplified Echelon Institute's commitment to preparing students for the challenges of the modern workforce.

[Online Workshop on Business Model Canvas \(BMC\)](#)

On May 30th, 2024, Echelon Institute of Technology host an insightful online workshop on the **Business Model Canvas (BMC)**, led by Prof. Pooja Kapoor. This workshop aims to introduce students and aspiring entrepreneurs to the essential framework of the BMC, a strategic tool for developing and visualizing business ideas.

ECHELON
TRANSFORMING THE EDUCATION

INSTITUTION'S INNOVATION COUNCIL
Member of IIC network

18
YEARS

ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD
— ORAGANIZES —

“ONLINE WORKSHOP ON BUSINESS MODEL CANVAS (BMC)”

30TH MAY, 2024

9:00 AM – 1:00 PM
2:00 PM – 7:30 PM

PROF. (DR.) POOJA KAPOOR
Academician & Researcher

Dr. Poonam Rani
Convener, IIC

Prof. (Dr.) Irfanullah Khan
Vice-President, IIC

Prof. (Dr.) Sunil Verma
President, IIC

Workshop Link:
<https://meet.google.com/ouk-vxdc-svo>

Prof. Kapoor will guide attendees through practical exercises and real-world examples to demonstrate how businesses can create, deliver, and capture value using the BMC. By breaking down complex business plans into these core segments, participants will gain the ability to critically analyze their ventures and strategize growth pathways.

The session will also provide valuable insights into how startups can use the BMC to test assumptions, pivot business strategies, and improve their market positioning. Through interactive discussions and case studies, students will enhance their entrepreneurial mindset and develop the skills needed to turn ideas into actionable business plans.

The online format allows for convenient participation, and students are encouraged to ask questions and engage with the content. Overall, this workshop will be a valuable experience for anyone looking to enter the entrepreneurial ecosystem or improve their business planning skills.



Workshop on Intellectual Property Rights and IP Management for Startups

On May 31st, 2024, Echelon Institute of Technology will host a crucial workshop on **Intellectual Property Rights (IPR)** and **IP Management for Startups**, conducted by **Dr. Rajeev Kumar**. The session is tailored to help budding entrepreneurs and innovators understand the significance of protecting their intellectual assets.

The workshop will delve into key aspects of IPR, including patents, trademarks, copyrights, and trade secrets. Participants will learn how startups can safeguard their innovations and monetize intellectual property effectively. Dr. Kumar will emphasize the role of IP management in ensuring long-term success and competitiveness in the market.

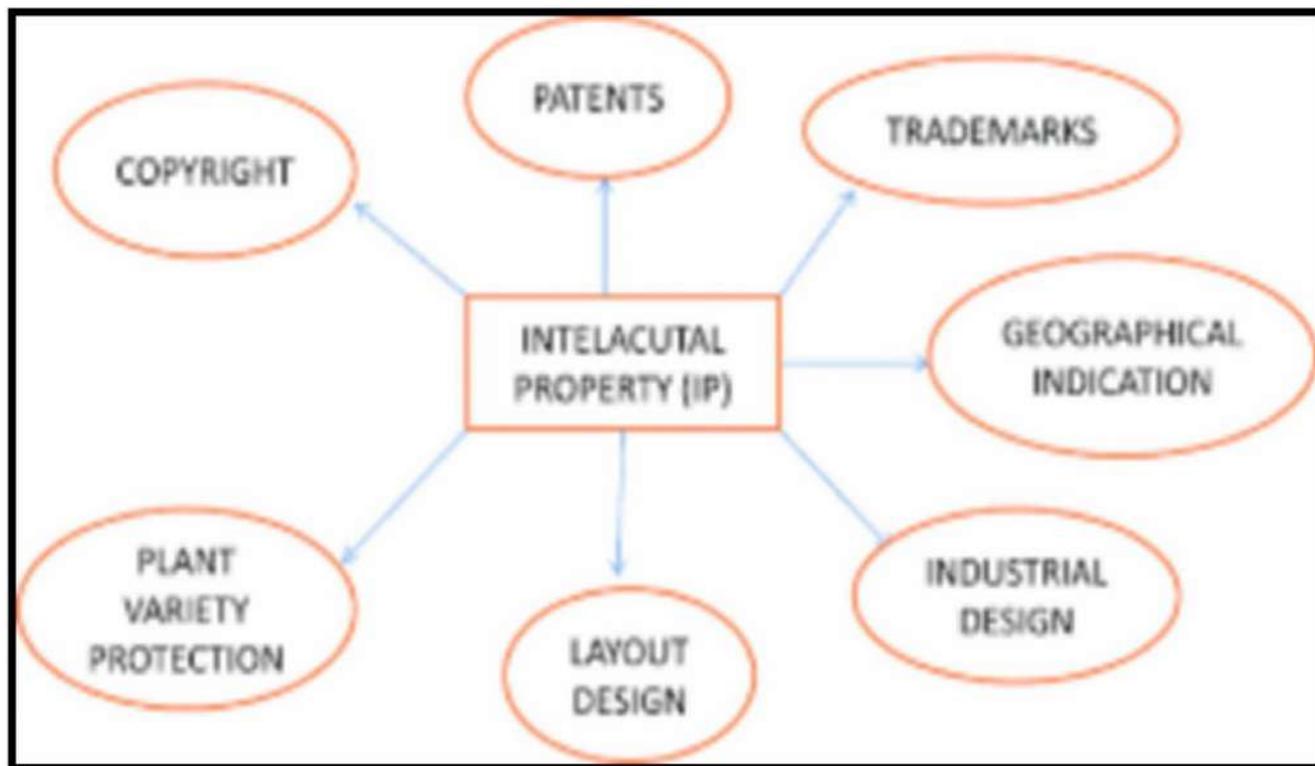


The poster is for a workshop organized by Echelon Institute of Technology, Faridabad. It features the Echelon logo with the tagline 'An Initiative by "The Last Corner" TRANSFORMING THE EDUCATION' and the Institution's Innovation Council logo. A '18th Anniversary' badge is also present. The main text reads 'ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD ORGANIZES "WORKSHOP ON INTELLECTUAL PROPERTY RIGHTS (IPR) AND IP MANAGEMENT FOR STARTUPS"'. The date is '31ST MAY, 2024' and the time is '10:00 AM - 1:00 PM' and '2:00 PM - 4:00 PM'. A circular portrait of Dr. Ranjeet Kumar is shown on the left. On the right, the speakers are listed: Dr. Poonam Rani (Convener, IIC), Prof. (Dr.) Irfanullah Khan (Vice-President, IIC), and Prof. (Dr.) Sunil Verma (President, IIC).

Attendees will gain insights into navigating the complex processes of registering and enforcing intellectual property rights, crucial for minimizing legal risks and maximizing business potential. Practical examples, case studies, and interactive discussions will further enrich the learning experience.

This event presents an invaluable opportunity for entrepreneurs and startups to build a strong foundation in IPR, enabling them to leverage their innovations while safeguarding against infringement. By the end of the workshop, participants will have a clearer understanding of the strategic importance of IP management, enhancing their ability to protect and scale their ventures in today's competitive landscape.

The workshop is expected to draw a significant number of students, innovators, and business enthusiasts, offering them the tools and knowledge to transform ideas into protected intellectual property.



Java Training

Echelon Institute of Technology is excited to announce a **Java Training Program** scheduled from **24th to 29th June**, conducted by the esteemed **Mr. Rahul Tiwari**. This intensive training is designed for students eager to enhance their programming skills and gain a solid foundation in Java.



The program will cover essential topics, including Java syntax, object-oriented programming principles, exception handling, and data structures. Participants will engage in hands-on coding sessions, allowing them to apply theoretical concepts in real-time projects.

Mr. Rahul Tiwari, with his extensive experience in software development, will provide valuable insights and best practices, preparing students for future challenges in the tech industry. This training is an excellent opportunity for students to elevate their programming proficiency and gain a competitive edge in their careers. Interested students are encouraged to register and take part in this valuable learning experience



Institute Level Activity

Alumni Meet

Echelon Institute of Technology is thrilled to announce its upcoming **Alumni Meet**, set to take place on **29th June 2024**. This much-anticipated event aims to bring together graduates from all batches, fostering connections and celebrating the shared experiences that define our vibrant alumni community.

The alumni meet will feature a series of engaging activities, including networking sessions, panel discussions, and interactive workshops. These sessions are designed to provide a platform for alumni to reconnect with old friends, reminisce about their time at EIT, and share their professional journeys since graduation. It's a wonderful opportunity for alumni to learn about the latest developments at the institute and explore ways to contribute to its growth and future initiatives.



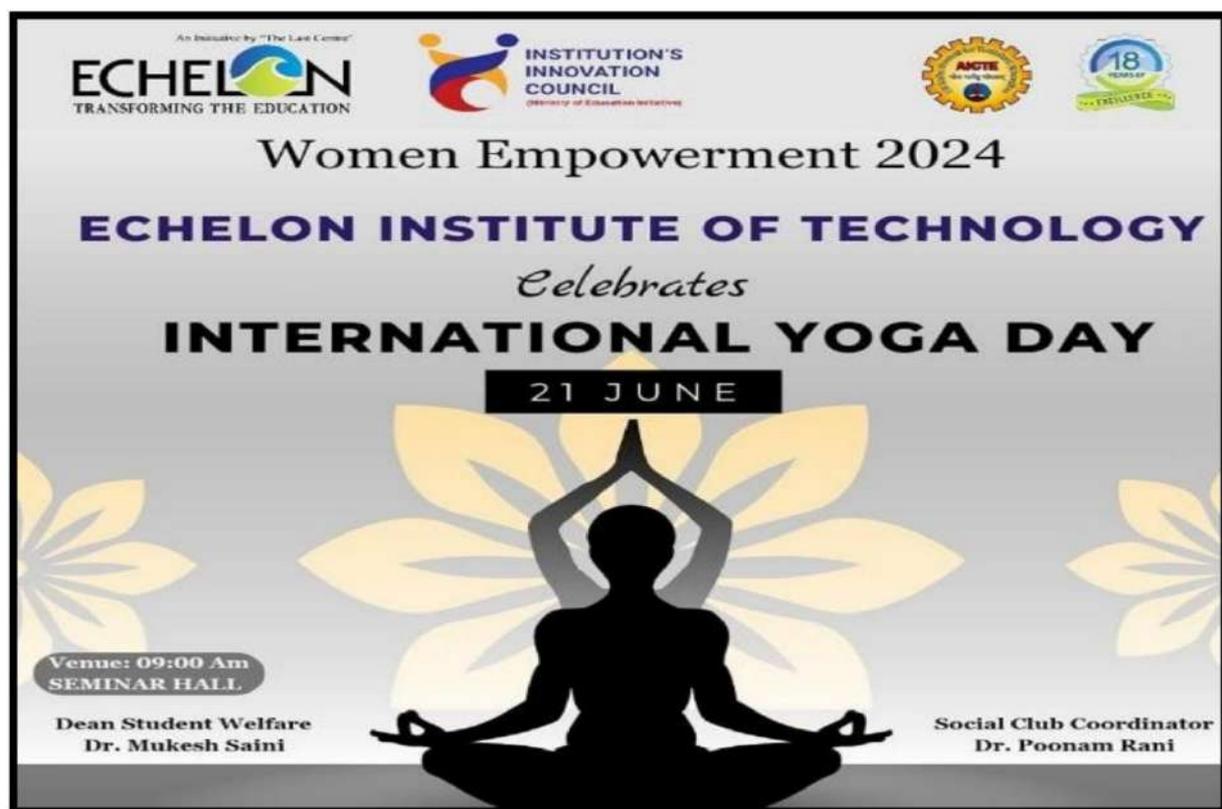
Additionally, the meet will highlight successful alumni who have made significant contributions to their respective fields. Their inspiring stories will motivate current students and recent graduates, offering valuable insights into career paths and opportunities.

The event will be held on campus, allowing attendees to revisit their alma mater and see the improvements and changes that have taken place over the years. As part of the celebration, there will be a formal dinner where alumni can enjoy a meal together, fostering deeper connections and networking opportunities.

This Alumni meet not only strengthens the bonds between former students but also reinforces the sense of community that Echelon Institute of Technology prides itself on. We encourage all alumni to join us for this memorable occasion, reconnect with peers, and continue the legacy of excellence that EIT embodies.

Yoga Day Celebration

Echelon Institute of Technology proudly celebrated **International Yoga Day** on **21st June** with an engaging program designed to promote physical well-being and mental clarity among students and faculty. The event commenced with an early morning session where participants gathered on the campus grounds, creating a serene atmosphere ideal for practicing yoga.



Led by experienced instructors, the session included various yoga asanas and breathing techniques, emphasizing their benefits for health and stress relief. Participants were guided through a series of poses that enhanced flexibility, strength, and mindfulness, fostering a sense of community and harmony.



The Yoga Day celebration successfully inspired attendees to embrace the practice of yoga as a vital component of a healthy lifestyle. The celebration also featured interactive discussions on the significance of yoga in daily life and its role in maintaining a balanced lifestyle, especially amid academic pressures. Students expressed their appreciation for the opportunity to learn and practice yoga, highlighting its positive impact on their overall well-being. The event concluded with a collective meditation session, allowing participants to reflect on their experiences and set intentions for incorporating yoga into their routines. Echelon Institute of Technology's



Acknowledgement

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

Ms. Suman
(Assistant Professor, CSE Department)

Faculty Members:

Ms. Suman
(Assistant Professor)

Publisher

Echelon Institute of Technology, Faridabad.

